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Contents

4.0.1 SW Release - BIOS

1.1 binutils 2.28.1

1.1.1 Available under license :

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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a purpose that is entirely well-defined independent of the
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 If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
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therefore falls outside the scope of this License.

 However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because it
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library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or
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modification of the work for the customer's own use and reverse
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@enumerate a
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user can modify the Library and then relink to produce a modified
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@item
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@item
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@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
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 If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
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 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
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fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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 3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
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that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
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that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

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anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
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 For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them

with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 Our method of protecting your rights has two steps: (1) copyright
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want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
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 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
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transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed for everyone's
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 Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This
license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

 The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

 Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

 However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve

this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

 Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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party saying it may be distributed under the terms of this Library
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addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
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1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
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fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the

entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

 3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

 Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood

that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy
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specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
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the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.

Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30
(tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error
checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost; we aren't
intentionally leaving anyone out.

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(This file is under construction.)   -*- text -*-

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into

the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for

some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error

checking, updating the code, and improving the 16 bit support, using
patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If
you've contributed significant work and are not mentioned on this list, and
want to be, let us know. Some of the history has been lost; we aren't
intentionally leaving anyone out.

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to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
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   GNU LIBRARY GENERAL PUBLIC LICENSE
        Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

      Preamble

 The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

 This license, the Library General Public License, applies to some
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your libraries, too.

 When we speak of free software, we are referring to freedom, not
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if you want it, that you can change the software or use pieces of it
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 To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
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you distribute copies of the library, or if you modify it.

 For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave

you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.

 Also, for each distributor's protection, we want to make certain
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want its recipients to know that what they have is not the original
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the original authors' reputations.

 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

 Most GNU software, including some libraries, is covered by the ordinary
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license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

 The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

 Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

 However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to

permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

 Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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General Public License (also called "this License"). Each licensee is
addressed as "you".

 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for

writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

 1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
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 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
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sections when you distribute them as separate works. But when you

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this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

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your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary GNU General Public
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this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a

work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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You must give prominent notice with each copy of the work that the
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of these things:

  a) Accompany the work with the complete corresponding
  machine-readable source code for the Library including whatever
  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that

uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
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the Library and of the other library facilities is otherwise
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a) Accompany the combined library with a copy of the same work
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facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining

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 Appendix: How to Apply These Terms to Your New Libraries

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 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

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        Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

    Preamble

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it in new free programs; and that you are informed that you can do
these things.

 To protect your rights, we need to make restrictions that forbid

distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
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To protect each distributor, we want to make it very clear that
there is no warranty for the free library. Also, if the library is
modified by someone else and passed on, the recipients should know
that what they have is not the original version, so that the original
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introduced by others.

Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
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is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less

of an advantage over competing non-free programs. These disadvantages
are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
special circumstances.

 For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

 Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

 The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a

portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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  d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
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themselves, then this License, and its terms, do not apply to those
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this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Library
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that version instead if you wish.) Do not make any other change in
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 Once this change is made in a given copy, it is irreversible for
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subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
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 4. You may copy and distribute the Library (or a portion or

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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

 Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

 6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse

engineering for debugging such modifications.

 You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

  a) Accompany the work with the complete corresponding
  machine-readable source code for the Library including whatever
  changes were used in the work (which must be distributed under
  Sections 1 and 2 above); and, if the work is an executable linked
  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library. (It is understood
  that the user who changes the contents of definitions files in the
  Library will not necessarily be able to recompile the application
  to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
  Library. A suitable mechanism is one that (1) uses at run time a
  copy of the library already present on the user's computer system,
  rather than copying library functions into the executable, and (2)
  will operate properly with a modified version of the library, if
  the user installs one, as long as the modified version is
  interface-compatible with the version that the work was made with.

  c) Accompany the work with a written offer, valid for at
  least three years, to give the same user the materials
  specified in Subsection 6a, above, for a charge no more
  than the cost of performing this distribution.

  d) If distribution of the work is made by offering access to copy
  from a designated place, offer equivalent access to copy the above
  specified materials from the same place.

  e) Verify that the user has already received a copy of these
  materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
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components (compiler, kernel, and so on) of the operating system on

which the executable runs, unless that component itself accompanies the executable.

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 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

  b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

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@appendixsubsec Preamble

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 This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of the Free
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it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.

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in new free programs; and that you are informed that you can do these
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 For example, if you distribute copies of the library, whether gratis
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with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
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 To protect each distributor, we want to make it very clear that
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modified by someone else and passed on, the recipients should know
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 Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

 Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

 When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

 We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

 For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

 In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
``work based on the library'' and a ``work that uses the library''. The
former contains code derived from the library, whereas the latter must
be combined with the library in order to run.

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licensee is addressed as ``you''.

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you conspicuously and appropriately publish on each copy an
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warranty; and distribute a copy of this License along with the
Library.

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above, provided that you also meet all of these conditions:

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(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
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application-supplied function or table used by this function must
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@end enumerate

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sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
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that they refer to the ordinary GNU General Public License, version 2,
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable, and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
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@enumerate a
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
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1.3 busybox 1.27.2

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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bzip2/libbzip2 version 1.0.2 of 30 December 2001

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<http://www.gnu.org/philosophy/why-not-lgpl.html>.
eval '(exit $?0)' && eval 'exec perl -wS -0777 -pi "$0" ${1+"$@"}'
 & eval 'exec perl -wS -0777 -pi "$0" $argv:q'
  if 0;
Update an FSF copyright year list to include the current year.

my $VERSION = '2012-02-05.21:39'; # UTC

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Written by Jim Meyering and Joel E. Denny

The arguments to this script should be names of files that contain
copyright statements to be updated. The copyright holder's name
defaults to "Free Software Foundation, Inc." but may be changed to
any other name by using the "UPDATE_COPYRIGHT_HOLDER" environment
variable.
#
For example, you might wish to use the update-copyright target rule
in maint.mk from gnulib's maintainer-makefile module.
#
Iff a copyright statement is recognized in a file and the final
year is not the current year, then the statement is updated for the
new year and it is reformatted to:
#
1. Fit within 72 columns.
2. Convert 2-digit years to 4-digit years by prepending "19".
3. Expand copyright year intervals. (See "Environment variables"
below.)
#
A warning is printed for every file for which no copyright
statement is recognized.
#
Each file's copyright statement must be formatted correctly in
order to be recognized. For example, each of these is fine:
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#
/*
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*/
#

```
# However, the following format is not recognized because the line
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#
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#      D. &copy;
#
#   4. The "Copyright" appears at the beginning of a line, except that it
#      may be prefixed by any sequence (e.g., a comment) of no more than
#      5 characters -- including white space.
#   5. Iff such a prefix is present, the same prefix appears at the
#      beginning of each remaining line within the FSF copyright
#      statement.  There is one exception in order to support C-style
#      comments: if the first line's prefix contains nothing but
#      whitespace surrounding a "/*", then the prefix for all subsequent
#      lines is the same as the first line's prefix except with each of
#      "/" and possibly "*" replaced by a " ".  The replacement of "*"
#      by " " is consistent throughout all subsequent lines.
#   6. Blank lines, even if preceded by the prefix, do not appear
#      within the FSF copyright statement.
#   7. Each copyright year is 2 or 4 digits, and years are separated by
#      commas or dashes.  Whitespace may appear after commas.
#
# Environment variables:
#
#   1. If UPDATE_COPYRIGHT_FORCE=1, a recognized FSF copyright statement
#      is reformatted even if it does not need updating for the new
#      year.  If unset or set to 0, only updated FSF copyright
#      statements are reformatted.
#   2. If UPDATE_COPYRIGHT_USE_INTERVALS=1, every series of consecutive
```

```
#     copyright years (such as 90, 1991, 1992-2007, 2008) in a
#     reformatted FSF copyright statement is collapsed to a single
#     interval (such as 1990-2008).  If unset or set to 0, all existing
#     copyright year intervals in a reformatted FSF copyright statement
#     are expanded instead.
#     If UPDATE_COPYRIGHT_USE_INTERVALS=2, convert a sequence with gaps
#     to the minimal containing range.  For example, convert
#     2000, 2004-2007, 2009 to 2000-2009.
#  3. For testing purposes, you can set the assumed current year in
#     UPDATE_COPYRIGHT_YEAR.
#  4. The default maximum line length for a copyright line is 72.
#     Set UPDATE_COPYRIGHT_MAX_LINE_LENGTH to use a different length.
#  5. Set UPDATE_COPYRIGHT_HOLDER if the copyright holder is other
#     than "Free Software Foundation, Inc.".

use strict;
use warnings;

my $copyright_re = 'Copyright';
my $circle_c_re = '(?:\([cC]\)|@copyright{}|&copy;)';
my $holder = $ENV{UPDATE_COPYRIGHT_HOLDER};
$holder ||= 'Free Software Foundation, Inc.';
my $prefix_max = 5;
my $margin = $ENV{UPDATE_COPYRIGHT_MAX_LINE_LENGTH};
!$margin || $margin !~ m/^\d+$/
 and $margin = 72;

my $tab_width = 8;

my $this_year = $ENV{UPDATE_COPYRIGHT_YEAR};
if (!$this_year || $this_year !~ m/^\d{4}$/)
 {
   my ($sec, $min, $hour, $mday, $month, $year) = localtime (time ());
   $this_year = $year + 1900;
 }

# Unless the file consistently uses "\r\n" as the EOL, use "\n" instead.
my $eol = /(?:^|[^\r])\n/ ? "\n" : "\r\n";

my $leading;
my $prefix;
my $ws_re;
my $stmt_re;
while (/(^|\n)(.{0,$prefix_max})$copyright_re/g)
 {
   $leading = "$1$2";
   $prefix = $2;
   if ($prefix =~ /^(\s*\/)\/*(\s*)$/)
```

```perl
      {
        $prefix =~ s,/, ,;
        my $prefix_ws = $prefix;
        $prefix_ws =~ s/\*/ /; # Only whitespace.
        if (/\G(?:[^*\n]|\*[^\/\n])*\*?\n$prefix_ws/)
          {
            $prefix = $prefix_ws;
          }
      }
    $ws_re = '[ \t\r\f]'; # \s without \n
    $ws_re =
      "(?:$ws_re*(?:$ws_re|\\n" . quotemeta($prefix) . ")$ws_re*)";
    my $holder_re = $holder;
    $holder_re =~ s/\s/$ws_re/g;
    my $stmt_remainder_re =
      "(?:$ws_re$circle_c_re)?"
      . "$ws_re(?:(?:\\d\\d)?\\d\\d(?:,$ws_re?|-))*"
      . "((?:\\d\\d)?\\d\\d)$ws_re$holder_re";
    if (/\G$stmt_remainder_re/)
      {
        $stmt_re =
          quotemeta($leading) . "($copyright_re$stmt_remainder_re)";
        last;
      }
  }
  if (defined $stmt_re)
   {
    /$stmt_re/ or die; # Should never die.
    my $stmt = $1;
    my $final_year_orig = $2;

    # Handle two-digit year numbers like "98" and "99".
    my $final_year = $final_year_orig;
    $final_year <= 99
      and $final_year += 1900;

    if ($final_year != $this_year)
      {
        # Update the year.
        $stmt =~ s/$final_year_orig/$final_year, $this_year/;
      }
    if ($final_year != $this_year || $ENV{'UPDATE_COPYRIGHT_FORCE'})
      {
        # Normalize all whitespace including newline-prefix sequences.
        $stmt =~ s/$ws_re/ /g;

        # Put spaces after commas.
        $stmt =~ s/, ?/, /g;
```

```perl
# Convert 2-digit to 4-digit years.
$stmt =~ s/(\b\d\d\b)/19$1/g;

# Make the use of intervals consistent.
if (!$ENV{UPDATE_COPYRIGHT_USE_INTERVALS})
  {
    $stmt =~ s/(\d{4})-(\d{4})/join(', ', $1..$2)/eg;
  }
else
  {
    $stmt =~
      s/
        (\d{4})
        (?:
          (,\ |-)
          ((??{
            if    ($2 eq '-') { '\d{4}'; }
            elsif (!$3)       { $1 + 1;  }
            else              { $3 + 1;  }
          }))
        )+
      /$1-$3/gx;

    # When it's 2, emit a single range encompassing all year numbers.
    $ENV{UPDATE_COPYRIGHT_USE_INTERVALS} == 2
      and $stmt =~ s/\b(\d{4})\b.*\b(\d{4})\b/$1-$2/;
  }

# Format within margin.
my $stmt_wrapped;
my $text_margin = $margin - length($prefix);
if ($prefix =~ /^(\t+)/)
  {
    $text_margin -= length($1) * ($tab_width - 1);
  }
while (length $stmt)
  {
    if (($stmt =~ s/^(.{1,$text_margin})(?: |$)//)
        || ($stmt =~ s/^([\S]+)(?: |$)//))
      {
        my $line = $1;
        $stmt_wrapped .= $stmt_wrapped ? "$eol$prefix" : $leading;
        $stmt_wrapped .= $line;
      }
    else
      {
        # Should be unreachable, but we don't want an infinite
```

```
          # loop if it can be reached.
           die;
        }
      }

     # Replace the old copyright statement.
      s/$stmt_re/$stmt_wrapped/;
    }
 }
 else
  {
    print STDERR "$ARGV: warning: copyright statement not found\n";
  }


 # Local variables:
 # mode: perl
 # indent-tabs-mode: nil
 # eval: (add-hook 'write-file-hooks 'time-stamp)
 # time-stamp-start: "my $VERSION = '"
 # time-stamp-format: "%:y-%02m-%02d.%02H:%02M"
 # time-stamp-time-zone: "UTC"
 # time-stamp-end: "'; # UTC"
 # End:
```

1.12 i2c-tools 3.1.0 :(2011-12-04)

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1.13 i2c-tools 3.1.2 :0

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1.16 kmod 24

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
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medium customarily used for software interchange.

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distribute the source code, even though third parties are not
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 5. A program that contains no derivative of any portion of the
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Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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 Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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 6. As an exception to the Sections above, you may also combine or
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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
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that the user who changes the contents of definitions files in the
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1.20 libgcc 5.5.0

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
   underscores, we are using prefix `.'s to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

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That's all there is to it!
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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```java
package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 *  A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

  private static final String NAME = "copyright";
  private static final String HEADER = "Copyright:";

  public String getName() {
    return NAME;
  }

  public boolean inField() {
    return true;
  }

  public boolean inConstructor() {
    return true;
  }

  public boolean inMethod() {
    return true;
  }

  public boolean inOverview() {
    return true;
  }

  public boolean inPackage() {
    return true;
  }

  public boolean inType() {
    return true;
  }
```

```java
  public boolean isInlineTag() {
    return false;
  }

  public static void register(Map tagletMap) {
    CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
    tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
  }

  public String toString(Tag tag) {
    return toString(new Tag[] { tag });
  }

  public String toString(Tag[] tags) {
    if (tags.length == 0) {
      return null;
    }
    else {
      boolean haveValidTag = false;
      for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
          haveValidTag = true;
        }
      }

      if (haveValidTag) {
        StringBuffer result = new StringBuffer();
        result.append("<dl>");
        for (int i = 0; i < tags.length; i++) {
          if (tags[i].text().length() > 0) {
            result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
          }
        }
        result.append("</dl>");
        return result.toString();
      }
      else {
        return null;
      }
    }
  }
}
Jan 21, 2002
```

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1.21 libnl 3.3.0

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table of data to be supplied by an application program that uses
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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 4. You may copy and distribute the Library (or a portion or
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medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
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therefore falls outside the scope of this License.

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creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

 When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License. Also, you must do one
of these things:

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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e) Verify that the user has already received a copy of these
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 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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 Ty Coon, President of Vice

That's all there is to it!
/*
* src/genl-ctrl-list.c List Generic Netlink Families

*

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*/

1.22 libpcap 1.3.0

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1.23 libpcap 1.8.1

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1.24 libpcap/ndsu-portions 1.3.0

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*

* @(#) $Header: /tcpdump/master/libpcap/sunatmpos.h,v 1.1 2002-07-11 09:06:47 guy Exp $ (LBL)

*/

1.25 linux 3.4.30

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 for merging the nxt2002 and nxt2004 modules into a

single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
```

```
 *    copy small buffer contents to head of large buffer.
 *  Trick is to avoid fragmenting Linux, due to need for a lot of large
 *    buffers. This is done by 2 things:
 *     1) skb->destructor / skb->atm.recycle_buffer
 *        combined, allow nicstar_free_rx_skb to be called to
 *        recycle large data buffers
 *     2) skb_clone of received buffers
 *  See nicstar_free_rx_skb and linearize_buffer for implementation
 *    details.
 *
 *
 *
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 *  Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
 *
 * M. Welsh, 6 July 1996
 *
 *
 */
```

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  Linus Torvalds

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      Version 2, June 1991

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1.26 linux kernel 4.4.20

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 for the initial saa7146 driver and its recent overhaul

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 for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
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Michael Holzt <kju@debian.org>
 for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
 for CyberLogin for Linux which allows logging onto EON
 (in case you are wondering where CyberLogin is, EON changed its login
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 for patching the cable card decoder driver

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 for the nxt2002 frontend driver

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 for the nxt2004 frontend driver

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 for the or51211 and or51132 frontend drivers, and
 for merging the nxt2002 and nxt2004 modules into a
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*

```
 *    Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 *    IDT always receives data into a small buffer, then large buffers
 *      as needed. This means that data must always be copied to create
 *      the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 *      Fix is simple: make large buffers large enough to hold entire
 *      SDU, and leave <small_buffer_data> bytes empty at the start. Then
 *      copy small buffer contents to head of large buffer.
 *    Trick is to avoid fragmenting Linux, due to need for a lot of large
 *      buffers. This is done by 2 things:
 *        1) skb->destructor / skb->atm.recycle_buffer
 *            combined, allow nicstar_free_rx_skb to be called to
 *            recycle large data buffers
 *        2) skb_clone of received buffers
 *    See nicstar_free_rx_skb and linearize_buffer for implementation
 *      details.
 *
 *
 *
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 *
 * M. Welsh, 6 July 1996
 *
 *
 */
```

1.27 lsof 4.85 :r1

1.27.1 Available under license :

#!/usr/bin/perl

sort_res.perl5 - Script to group & sort lsof output by resource

#

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1.28 lzo 2.10

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
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your libraries, too.

When we speak of free software, we are referring to freedom, not
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have the freedom to distribute copies of free software (and charge for
this service if you wish), that you receive source code or can get it
if you want it, that you can change the software or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
These restrictions translate to certain responsibilities for you if
you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal

permission to copy, distribute and/or modify the library.

 Also, for each distributor's protection, we want to make certain
that everyone understands that there is no warranty for this free
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the original authors' reputations.

 Finally, any free program is threatened constantly by software
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we have made it clear that any patent must be licensed for everyone's
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 Most GNU software, including some libraries, is covered by the ordinary
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license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

 The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

 Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

 However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

 The precise terms and conditions for copying, distribution and

modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The
former contains code derived from the library, while the latter only
works together with the library.

 Note that it is possible for a library to be covered by the ordinary
General Public License rather than by this special one.

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 A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

 The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

 "Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
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writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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 You may charge a fee for the physical act of transferring a copy,
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 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
  a purpose that is entirely well-defined independent of the
  application. Therefore, Subsection 2d requires that any
  application-supplied function or table used by this function must
  be optional: if the application does not supply it, the square
  root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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License instead of this License to a given copy of the Library. To do
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that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
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that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

 If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

 5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

 However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials
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than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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  library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
File loading code for Mini-XML, a small XML-like file parsing library.
*

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*

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1.30 module-init-tools 3.15

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  a) You must cause the modified files to carry prominent notices
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  b) You must cause any work that you distribute or publish, that in
  whole or in part contains or is derived from the Program or any
  part thereof, to be licensed as a whole at no charge to all third
  parties under the terms of this License.

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  when run, you must cause it, when started running for such
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  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
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anything that is normally distributed (in either source or binary
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operating system on which the executable runs, unless that component
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1.37 pciutils 3.5.5

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constructing

constructor

constructs

consume

contact

contain

containing

contains

contents

contents

continue

continued

contributors

control

controlled

controller

controller

controlling

controls

controls

conventions

cook

cooperation

copy

copyright

core

cores

corollary

correct

correctly

corresponding

could

couple

coworkers

CPU

create

creates

creating

crucial

cultures

current

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custom

customized

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data

database

datasets

datum

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dealing

decide

decouple

decoupled

deeply

def

default

define

defines

definition

definitions

delegate

delete

demo

demonstrate

demonstrations

deployed

describe

describes

design

desktop

desktops

destination

destinations

destructor

details

detect

determine

determines

developer

developers

development

developments

device

devices

diagram

dialogs

dictionary

did

difference

differences

different

differs

digital

direct

direct

directions

directly

directory

discuss

display

displaying

displays

distribute

distribution

disturbing

divide

do

documentation

documents

does

done

down

downLimit

download

downloaded

downloading

draw

drawing

drawn

drop

Duff

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DVD

dynamic

dynamically

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ellipses

elliptical

else

email

embedded

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empty

enable

enables

encapsulates

enclose

end

endnote

endnotes

engineer

engineering

English

enjoys

enough

ensure

ensures

entails

enter

entire

entitled

entries

entry

environment

erases

error

errors

especially

established

etc.

Europe

even

evenly

event

events

eventually

every

everyone

example

examples

except

exception

excessive

exclusive

existing

exists

expand

expected

expense

export

exposes

extend

extended

extending

extensible

extension

external

extra

extract

faces

facilities

factory

fade

failure

fairness

falls

false

family

fashion

fast

faster

features

February

feedback

feel

fetch

fetching

few

fields

figure

figures

file

file name

files

filled

filler

final

finally

find

fine

finish

finished

first

flow

fly

focus

followed

following

font

foot

footnote

footnotes

for

form

format

formats

forms

formula

formulas

forum

found

framework

France

from

front

full

fully

function

functionality

functions

future

gain

games

gap

general

generic

Germany

get

gill

give

given

gives

giving

global

go

goes

got

gradient

graph

graphical

graphics

gray

great

greatly

green

grey

group

growing

gui

GUI

hack

had

half

Hamburg

hand

handing

handle

handler

handlers

handles

handling

happens

hardware

harmonica

has

have

having

he

head

header

headers

hear

height

help

helper

here

high

highlight

highly

hints

his

hold

holder

holding

hole

home

horizontal

host

hosting

hours

Houston

how

however

huge

hyphen

ID

idea

ideally

if

Illinois

illustrate

illustrated

illustrates

image

images

impact

implement

implementation

implementations

implemented

implementing

implements

import

important

improvements

in

include

included

includes

including

inclusion

incoming

inconvenient

indent

index

indicate

inexpensively

influence

info

information

ingenious

inherits

initial

initially

inner

input

inspired

install

installs

instance

instead

instructs

integer

integers

integration

intended

intensive

interest

interests

interface

interfaces

interfere

internal

interval

into

intriguing

intro

introduce

introduced

invalid

invented

inverse

invocation

involved

Irish

irregular

is

ISO

ISPs

issue

issues

it

items

iterate

its

itself

job

join

JPEG

jungle

just

Karaoke

keep

keeping

key

kind

king

known

label

labels

landscape

language

large

last

later

latest

lawn

layout

lead

leader

leaders

lean

leaves

leaving

left

lemma

length

less

let

level

levels

libraries

library

lies

like

likely

limit

limiting

limits

line

linear

lines

linewidth

link

linked

linking

Linux

list

lists

little

lives

load

loading

loads

located

location

locations

logo

long

longer

look

looked

looking

looks

lookup

lookups

loop

lout

low

macro

made

magazine

magic

main

major

make

makes

making

manage

managed

managing

mandatory

manipulate

manipulation

manner

many

map

maps

March

margin

mask

masking

Massachusetts

match

mathematical

maximum

may

means

meet

member

members

memory

merged

method

might

milliseconds

minimize

minimum

minor

mix

MNG

mode

model

models

modes

modified

module

moments

monitored

monthly

more

most

mostly

move

much

multitude

Munich

must

name

named

names

necessary

need

needed

needs

network

new

news

newsletter

next

nicely

no

normally

Norway

not

note

notes

nothing

notifies

notify

now

null

number

numbered

numbering

numbers

Nydalen

object

objects

obtain

obtaining

odd

of

off

office

offset

offsets

often

old

on

once

one

ones

online

only

onto

opacity

opaque

open

opens

operates

operating

operation

operations

operator

opportunity

opposed

optimize

option

optionally

options

or

OR

order

ordinary

original

originally

Oslo

other

otherwise

our

out

outer

outgoing

output

outside

over

overcoming

overrides

overview

own

owner

owners

pace

Pacific

package

packages

packets

page

pages

paint

painted

painting

paragraph

paragraphs

parameters

parent

Paris

parse

part

partial

partially

particular

partners

parts

party

passed

passing

patches

path

pattern

patterns

pause

PDF

peek

pending

perform

performed

performs

permission

permutations

personal

pick

pie

pipe

pixel

pixels

place

places

planning

platforms

play

players

playing

please

pleasing

plugin

plugins

plus

PNG

pointer

pop

popular

populates

porter

Porter

portrait

possibility

possible

potential

potentially

power

powers

preceded

presence

present

prevent

prevents

previous

previously

primarily

primary

primitives

printed

printing

prior

probably

problem

process

processes

processing

produce

produced

produces

products

programming

programs

project

projects

proof

proper

properly

properties

property

proposed

proposition

pros

protocols

proud

provide

provided

provides

provision

proxy

public

published

punch

punches

pursuing

put

Qt

Qtopia

quality

quarter

quarterly

queried

queries

query

question

questions

radial

ragged

range

rate

rates

rather

ratio

raw

read

reader

reading

reads

ready

real

realistic

really

received

recent

recognized

recommended

recompile

rectangle

rectangular

red

redistribute

reducing

reference

references

reflect

regardless

regional

register

registered

registration

reimplement

reimplementation

reimplemented

release

released

releases

reliable

rely

remains

remember

removed

removes

repeatedly

replace

report

represent

represented

represents

reproduced

requested

require

required

requires

resetting

resides

resolve

respective

respectively

response

rest

restart

result

resulting

resume

return

returning

returns

reuse

revealing

rich

riches

right

roadshow

role

Roman

router

routers

rule

run

runner

runners

running

runs

sake

sales

salespeople

same

sample

San Jose

save

saved

saves

say

scalable

scale

scanline

scene

scenes

schedule

school

script

seam

seamless

search

searches

searching

second

seconds

section

sections

security

see

seen

selection

seminar

seminars

sending

separated

separates

series

service

services

set

setting

setup

seven

seventh

several

shade

shadow

shape

shares

shaves

shine

shorter

should

show

shown

shows

side

signal

signals

signature

significantly

similar

similarily

similarly

simple

simplest

simplified

simplifying

simply

simulate

simultaneous

since

single

size

sizes

slightly

slope

slot

slowing

small

smaller

so

socket

sockets

software

solutions

solved

some

soon

sort

sorting

source

sources

south

space

special

specialized

specific

specifically

specification

specifications

specified

specify

speed

spend

split

SQL

standard

standards

start

starts

starve

state

states

static

steady

stealing

step

still

stop

stopwatch

store

stored

stores

straightforward

stream

string

strings

structure

structured

strut

style

styles

styling

subclass

subclassing

subdirectory

subsection

subsections

succeeds

success

successful

successfully

such

suggestion

suggestions

suitable

support

supported

supports

suppose

supposes

sure

switch

switches

symbol

symbols

synonyms

system

systems

table

tables

tags

take

takes

tap

target

targets

TCP

team

technique

technology

template

templates

Texas

text

than

that

the

their

them

then

theorem

there

these

they

thickness

thin

third

this

those

three

throttling

through

tightly

time

timer

times

tiny

tips

title

titles

to

together

too

top

torrent

total

tour

trademarks

traffic

training

transaction

transfer

transferred

transferring

transfers

translucency

translucent

transparency

transparent

travel

traveled

true

try

turn

twice

two

type

typed

typical

typically

unable

under

underlying

understanding

undoes

unique

united

unlike

unpack

unsigned

until

untouched

up

update

updated

updates

upload

uploading

uploads

us

use

used

useful

user

users
uses
using
usual
usually
valid
value
values
variable
variation
variety
various
vector
venturing
verifying
versa
version
versions
vertical
very
via
vice
virtual
visual
void
VP
waiting
Wales
want
wants
was
way
ways
we
web
website
well
were
what
when
whenever
where
whether
which
while
whistle
white
who

whole

why

widget

widgets

width

widths

will

window

windows

wish

with

without

word

words

work

working

works

would

wrap

wrapper

write

writes

writing

writings

written

X

X11

XOR

year

years

yes

you

your

zero

<d!`BhQ*%&G;M PZe1zD<SyeN0&icLTRQ

Vista

&File*%

&EsciG

PrimoM

TerzoZLingua: %11ObliquaSecondoDIsometrica<SProspetticayeItalianoN02Esempio di localizzazione/>

MainWindow

<d!`BhQ*%"G5M PZg1~D<SyeN0i_LTRQVis&Fil*%&AvsluttGFrsteM TredjeZSprk: %11Skjevt

AndreDIsometrisk<SPerspektivye

NorskN0:Internasjonaliseringseksempel/>

MainWindow

<d!`BhQ*%$G9M LZ]1pD<SyeN0iRTLQE1&I

'DEDA*%#.1,G#HDM +'D+Z'DD:): %11E5E*+'FIDE*E'+D<S

EF8H1ye'D91(J)N0E+'D 'D*/HJD/>

MainWindow

<d!`BhQ*%"G;M TZi1~D<SyeN0 $i_LTRQ&*%&G

M

Z: %11D<SyeN00 />

MainWindow

<d!`BhQ*%&GAM VZq1D<SyeN0:iLTRQ

Viso&Arquivo*%

&SairGPrimeiroM TerceiroZIdioma: %11OblquoSegundoDIsomtrico<SPerspectivayePortugusN0<Exemplo de
Internacionalizao/>

MainWindow

<d!`BhQ*%*GAM \Zu1D<SyeN0+DiLTRQAnsicht&Datei*%Be&endenGErstensM DrittensZSprache:
%11SchiefZweitensDIsometrisch<SPerspektivischyeDeutschN0<Internationalisierungsbeispiel/>

MainWindow

<d!`BhQ*%"G5M JZa1xD<SyeN0 "iaLTRQ84$09;*%

KE>4G5@2K9M "@5B89Z/7K:: %11C@A82B>@>9D7><5B@8G5A:89<S5@A?5:B820ye CAA:89N04@8<5@
8=B5@=0F8=>0;870F88/>

MainWindow

<class>MainWindow</class>

<widget class="QMainWindow" name="MainWindow" >

 <property name="geometry" >

  <rect>

   <x>0</x>

   <y>0</y>

   <width>412</width>

   <height>294</height>

  </rect>

 </property>

 <property name="windowTitle" >

  <string>Title</string>

 </property>

 <widget class="QWidget" name="centralwidget" >

  <layout class="QVBoxLayout" >

   <property name="margin" >

    <number>9</number>

   </property>

   <property name="spacing" >

    <number>6</number>

   </property>

   <item>

    <widget class="QLabel" name="label" >

    <property name="text" >

     <string>Text</string>

    </property>

    <property name="alignment" >

```
    <set>Qt::AlignCenter</set>
   </property>
  </widget>
 </item>
</layout>
</widget>
<widget class="QMenuBar" name="menubar" >
<property name="geometry" >
<rect>
<x>0</x>
<y>0</y>
<width>412</width>
<height>21</height>
</rect>
</property>
</widget>
<widget class="QStatusBar" name="statusbar" />
</widget>
<pixmapfunction></pixmapfunction>
<resources/>
<connections/>
</ui>
```
<d!`BhQ*%$G9M NZc1xD<SyeN0 "ieLTRQView

&File*%

E&xitG

FirstM

ThirdZLanguage: %11ObliqueSecondDIsometric<SPerspectiveyeEnglishN08Internationalization Example/>

MainWindow

<d!`BhQ*%$G;M VZm1D<SyeN0

&iiLTRQVisa&Arkiv*%&AvslutaGFrstaM TredjeZSprk: %11

Skevt

AndraDIsometriskt<SPerspektivtyeSvenskaN08Internationaliseringsexempel/>

MainWindow

<d!`BhQ*% G7M NZ_1pD<SyeN0iLTRQVeN[&F]*%Q[&x]G{,NN*M {,N N*Z:

%11eb_q{,NN*D{Ib_q<Sb_qye{OSN-eN0

VESO/>

MainWindow

<d!`BhQ*%*GEM ZZm1D<SyeN0$iaLTRQAspekto&Dosiero*%

&FiniGUnueM TrieZLingvo: %11OblikvaDueDIsometria<SPerspektivayeEsperantoN02Ekzemplo pri

internaciigo/>

MainWindow

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LTRQhy:e_0000(&F)*%}BN(&X)G{,NLM {,N LZ: %11

e0b_ql{,NLD

{Ib_ql<S`lyeeg,N0VS(i18n)0nO/>

MainWindow

<d!`BhQ*%"G=M XZq1D<SyeN0% @iLTRQVue&Fichier*%&QuitterGPremierM TroisimeZLangue :

%11ObliqueDeuximeDIsomtrique<SPerspectiveyeFranaisN0<Exemple d'internationalisation/>

MainWindow

<d!`BhQ*%(GAM XZm1D<SyeN0*iWLTRQPohled&Soubor*%&KonecG

PrvnM

TYetZJayzk: %11Naklonn

DruhDIsometrick<SPerspektivnye

eskN0"Ukzka lokalizace/>

MainWindow

<d!`BhQ*% G3M FZW1hD<SyeN0iLTRQ0|&F*%&XGM 8Z : %11WPD!<STye\mN0mT />

MainWindow

Paulo Coelho: O Gnio e as Rosas

Jean-Pierre Coffe: table en famille avec 15 par jour

Anna Hallstrm, Urban stberg: Svr svenska

Darrell Huff: How to Lie with Statistics

Franz Kafka: Das Schlo

Helena Leheckov: Tekki suomalaisille

Arthur Rimbaud: uvres compltes

Dag Solstad: Forsk p beskrive det ugjennomtrengelige

Sprk: Norsk

:

/7K:: CAA:89

: \m

: e,g

Langage : Franais

<d!`B[%N(i=SzvegCm[%

NyelvN/>

MainWindow

Paulo Coelho: O Gnio e as Rosas

Anna Hallstrm, Urban stberg: Svr svenska

Darrell Huff: How to Lie with Statistics

Franz Kafka: Das Schlo

Walter Moers: Die 13 Leben des Kpt'n Blaubr

Dag Solstad: Forsk p beskrive det ugjennomtrengelige

Sprk: Norsk

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:

Langage : Franais

Sprk: Norsk

:

/7K:: CAA:89

: \m

: eg,

Langage : Franais

<?xml version="1.0" encoding="UTF-8"?>

<ui version="4.0">

<class>Form</class>

<widget class="QWidget" name="Form">

```xml
<property name="geometry">
<rect>
<x>0</x>
<y>0</y>
<width>545</width>
<height>471</height>
</rect>
</property>
<property name="windowTitle">
<string>Easing curves</string>
</property>
<layout class="QGridLayout" name="gridLayout">
<item row="0" column="0" colspan="2">
<widget class="QListWidget" name="easingCurvePicker">
<property name="sizePolicy">
<sizepolicy hsizetype="Expanding" vsizetype="Preferred">
<horstretch>0</horstretch>
<verstretch>0</verstretch>
</sizepolicy>
</property>
<property name="maximumSize">
<size>
<width>16777215</width>
<height>120</height>
</size>
</property>
<property name="verticalScrollBarPolicy">
<enum>Qt::ScrollBarAlwaysOff</enum>
</property>
<property name="movement">
<enum>QListView::Static</enum>
</property>
<property name="isWrapping" stdset="0">
<bool>false</bool>
</property>
<property name="viewMode">
<enum>QListView::IconMode</enum>
</property>
<property name="selectionRectVisible">
<bool>false</bool>
</property>
</widget>
</item>
<item row="1" column="0">
<layout class="QVBoxLayout" name="verticalLayout">
<item>
<widget class="QGroupBox" name="groupBox_2">
<property name="title">
```

```xml
    <string>Path type</string>
   </property>
   <layout class="QVBoxLayout" name="verticalLayout_2">
    <item>
     <widget class="QRadioButton" name="lineRadio">
      <property name="text">
       <string>Line</string>
      </property>
      <property name="checked">
       <bool>true</bool>
      </property>
      <attribute name="buttonGroup">
       <string>buttonGroup</string>
      </attribute>
     </widget>
    </item>
    <item>
     <widget class="QRadioButton" name="circleRadio">
      <property name="text">
       <string>Circle</string>
      </property>
      <attribute name="buttonGroup">
       <string>buttonGroup</string>
      </attribute>
     </widget>
    </item>
   </layout>
  </widget>
 </item>
 <item>
  <widget class="QGroupBox" name="groupBox">
   <property name="sizePolicy">
    <sizepolicy hsizetype="Fixed" vsizetype="Preferred">
     <horstretch>0</horstretch>
     <verstretch>0</verstretch>
    </sizepolicy>
   </property>
   <property name="title">
    <string>Properties</string>
   </property>
   <layout class="QFormLayout" name="formLayout">
    <property name="fieldGrowthPolicy">
     <enum>QFormLayout::AllNonFixedFieldsGrow</enum>
    </property>
    <item row="0" column="0">
     <widget class="QLabel" name="label">
      <property name="text">
       <string>Period</string>
```

```
    </property>
   </widget>
  </item>
  <item row="0" column="1">
   <widget class="QDoubleSpinBox" name="periodSpinBox">
   <property name="enabled">
    <bool>false</bool>
   </property>
   <property name="minimum">
    <double>-1.000000000000000</double>
   </property>
   <property name="singleStep">
    <double>0.100000000000000</double>
   </property>
   <property name="value">
    <double>-1.000000000000000</double>
   </property>
   </widget>
  </item>
  <item row="1" column="0">
   <widget class="QLabel" name="label_2">
   <property name="text">
    <string>Amplitude</string>
   </property>
   </widget>
  </item>
  <item row="1" column="1">
   <widget class="QDoubleSpinBox" name="amplitudeSpinBox">
   <property name="enabled">
    <bool>false</bool>
   </property>
   <property name="minimum">
    <double>-1.000000000000000</double>
   </property>
   <property name="singleStep">
    <double>0.100000000000000</double>
   </property>
   <property name="value">
    <double>-1.000000000000000</double>
   </property>
   </widget>
  </item>
  <item row="2" column="0">
   <widget class="QLabel" name="label_3">
   <property name="text">
    <string>Overshoot</string>
   </property>
   </widget>
```

```xml
        </item>
        <item row="2" column="1">
         <widget class="QDoubleSpinBox" name="overshootSpinBox">
          <property name="enabled">
           <bool>false</bool>
          </property>
          <property name="minimum">
           <double>-1.000000000000000</double>
          </property>
          <property name="singleStep">
           <double>0.100000000000000</double>
          </property>
          <property name="value">
           <double>-1.000000000000000</double>
          </property>
         </widget>
        </item>
       </layout>
      </widget>
     </item>
     <item>
      <spacer name="verticalSpacer">
       <property name="orientation">
        <enum>Qt::Vertical</enum>
       </property>
       <property name="sizeHint" stdset="0">
        <size>
         <width>20</width>
         <height>40</height>
        </size>
       </property>
      </spacer>
     </item>
    </layout>
   </item>
   <item row="1" column="1">
    <widget class="QGraphicsView" name="graphicsView">
     <property name="sizePolicy">
      <sizepolicy hsizetype="Expanding" vsizetype="Expanding">
       <horstretch>0</horstretch>
       <verstretch>0</verstretch>
      </sizepolicy>
     </property>
    </widget>
   </item>
  </layout>
 </widget>
 <resources/>
```

```
<connections/>
<buttongroups>
 <buttongroup name="buttonGroup"/>
</buttongroups>
</ui>
```

@8L?J$b2]@:%EX T@1-NN/b@P

]C>/>j`;@E5/n0\@2S@JD~}-

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   <y>0</y>
   <width>400</width>
   <height>300</height>
  </rect>
 </property>
 <property name="windowTitle" >
  <string>PyUIC4 Demo Dialog</string>
 </property>
 <layout class="QGridLayout" >
  <property name="margin" >
   <number>9</number>
  </property>
  <property name="spacing" >
   <number>6</number>
  </property>
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   <spacer>
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     <enum>Qt::Vertical</enum>
    </property>
    <property name="sizeHint" >
     <size>
```

```xml
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</item>
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  </property>
  <property name="spacing" >
   <number>6</number>
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     <string>Add items</string>
    </property>
   </widget>
  </item>
  <item>
   <widget class="QPushButton" name="button2" >
    <property name="text" >
     <string>Clear list</string>
    </property>
   </widget>
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```

```xml
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        </property>
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     </layout>
    </item>
   </layout>
  </widget>
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  <resources/>
  <connections>
   <connection>
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    <signal>clicked()</signal>
    <receiver>DemoDialog</receiver>
    <slot>accept()</slot>
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      <x>369</x>
      <y>256</y>
     </hint>
     <hint type="destinationlabel" >
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      <y>254</y>
     </hint>
    </hints>
```

```
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      <signal>clicked()</signal>
      <receiver>list</receiver>
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        <y>112</y>
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        <x>279</x>
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      </hints>
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      <title>Adobe - The postscript and PDF standards</title>
    </bookmark>
    <bookmark href="http://partners.adobe.com/asn/developer/technotes/acrobatpdf.html">
      <title>Reference Manual Portable Document Format</title>
    </bookmark>
```

```
    <bookmark href="http://partners.adobe.com/asn/developer/acrosdk/main.html">
        <title>Adobe Acrobat Software Development Kit</title>
    </bookmark>
</folder>
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    <title>Literature Sites</title>
    <bookmark href="http://www.cc.columbia.edu/cu/libraries/subjects/speccol.html">
        <title>Guide to Special Collections (Columbia University)</title>
    </bookmark>
    <bookmark href="http://www.ipl.org/ref/litcrit/">
        <title>Literary Criticism on the Web from the Internet Public Library</title>
    </bookmark>
    <bookmark href="http://www.victorianweb.org/">
        <title>Victorian Web.</title>
    </bookmark>
    <bookmark href="http://vos.ucsb.edu/">
        <title>Voice of the Shuttle.</title>
    </bookmark>
    <bookmark href="http://www.modjourn.brown.edu/">
        <title>Modernist Journals Project</title>
    </bookmark>
    <bookmark href="http://www.poetspath.com">
        <title>Museum of American Poetics</title>
    </bookmark>
    <bookmark href="http://www.english.uiuc.edu/maps/">
        <title>Modern American Poetry</title>
    </bookmark>
    <bookmark href="http://www.findarticles.com/">
        <title>FindArticles.com</title>
    </bookmark>
    <bookmark href="http://www.literaryhistory.com">
        <title>Literary History</title>
    </bookmark>
    <bookmark href="http://www.litencyc.com/LitEncycFrame.htm">
        <title>Literary Encyclopedia</title>
    </bookmark>
    <separator/>
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        <title>The University of California Press</title>
    </bookmark>
    <bookmark href="http://www.letrs.indiana.edu/web/w/wright2/">
        <title>Wright American Fiction, 1851-1875</title>
    </bookmark>
    <bookmark href="http://docsouth.unc.edu/">
        <title>Documenting the American South: Beginnings to 1920</title>
    </bookmark>
    <bookmark href="http://etext.lib.virginia.edu/eng-on.html">
        <title>Electronic Text Center at the University of Virginia</title>
```

```
      </bookmark>
      <bookmark href="http://digital.nypl.org/schomburg/writers_aa19/">
        <title>The Schomburg Center for Research in Black Culture</title>
      </bookmark>
      <bookmark href="http://www.infomotions.com/alex2/">
        <title>Alex Catalogue of Electronic Texts.</title>
      </bookmark>
    </folder>
</xbel>
<d!`B[%N i5
Titul[%
JazykN/>
MainWindow
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE xbel>
<xbel version="1.0">
  <folder folded="no">
    <title>Qt Resources</title>
    <folder folded="yes">
      <title>Trolltech Partners</title>
      <bookmark href="http://partners.trolltech.com/partners/training.html">
        <title>Training Partners</title>
      </bookmark>
      <bookmark href="http://partners.trolltech.com/partners/service.html">
        <title>Consultants and System Integrators</title>
      </bookmark>
      <bookmark href="http://partners.trolltech.com/partners/tech.html">
        <title>Technology Partners</title>
      </bookmark>
      <bookmark href="http://partners.trolltech.com/partners/resellers.html">
        <title>Value Added Resellers (VARs)</title>
      </bookmark>
    </folder>
    <folder folded="yes">
      <title>Community Resources</title>
      <bookmark href="http://www.qtforum.org/">
        <title>QtForum.org</title>
      </bookmark>
      <bookmark href="http://www.digitalfanatics.org/projects/qt_tutorial/">
        <title>The Independent Qt Tutorial</title>
      </bookmark>
      <bookmark href="http://prog.qt.free.fr/">
        <title>French PROG.Qt</title>
      </bookmark>
      <bookmark href="http://www.qtforum.de/">
        <title>German Qt Forum</title>
      </bookmark>
      <bookmark href="http://www.korone.net/">
```

```
          <title>Korean Qt Community Site</title>
        </bookmark>
        <bookmark href="http://prog.org.ru/forum/forum_14.html">
          <title>Russian Qt Forum</title>
        </bookmark>
        <bookmark href="http://qt4.digitalfanatics.org/">
          <title>Digitalfanatics: The QT 4 Resource Center</title>
        </bookmark>
        <bookmark href="http://www.qtquestions.org/">
          <title>QtQuestions</title>
        </bookmark>
      </folder>
      <bookmark href="http://doc.trolltech.com/qq/">
        <title>Qt Quarterly</title>
      </bookmark>
      <bookmark href="http://www.trolltech.com/">
        <title>Trolltech's home page</title>
      </bookmark>
      <bookmark href="http://doc.trolltech.com/4.0/">
        <title>Qt 4.0 documentation</title>
      </bookmark>
      <bookmark href="http://www.trolltech.com/developer/faqs/">
        <title>Frequently Asked Questions</title>
      </bookmark>
    </folder>
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      <title>Online Dictionaries</title>
      <bookmark href="http://www.dictionary.com/">
        <title>Dictionary.com</title>
      </bookmark>
      <bookmark href="http://www.m-w.com/">
        <title>Merriam-Webster Online</title>
      </bookmark>
      <bookmark href="http://dictionary.cambridge.org/">
        <title>Cambridge Dictionaries Online</title>
      </bookmark>
      <bookmark href="http://www.onelook.com/">
        <title>OneLook Dictionary Search</title>
      </bookmark>
      <separator/>
      <bookmark href="www.iee.et.tu-dresden.de/">
        <title>The New English-German Dictionary</title>
      </bookmark>
      <bookmark href="http://dict.tu-chemnitz.de/">
        <title>TU Chemnitz German-English Dictionary</title>
      </bookmark>
      <separator/>
      <bookmark href="http://atilf.atilf.fr/tlf.htm">
```

```
            <title>Trsor de la Langue Franaise informatis</title>
        </bookmark>
        <bookmark href="http://dictionnaires.atilf.fr/dictionnaires/ACADEMIE/">
            <title>Dictionnaire de l'Acadmie Franaise</title>
        </bookmark>
        <bookmark href="http://elsap1.unicaen.fr/cgi-bin/cherches.cgi">
            <title>Dictionnaire des synonymes</title>
        </bookmark>
    </folder>
</xbel>
<ui version="4.0" >
<class>Dialog</class>
<widget class="QDialog" name="Dialog" >
 <property name="geometry" >
  <rect>
   <x>0</x>
   <y>0</y>
   <width>389</width>
   <height>243</height>
  </rect>
 </property>
 <property name="windowTitle" >
  <string>Http authentication required</string>
 </property>
 <layout class="QGridLayout" >
  <item row="0" column="0" colspan="2" >
   <widget class="QLabel" name="label" >
    <property name="text" >
     <string>You need to supply a Username and a Password to access this site</string>
    </property>
    <property name="wordWrap" >
     <bool>false</bool>
    </property>
   </widget>
  </item>
  <item row="2" column="0" >
   <widget class="QLabel" name="label_2" >
    <property name="text" >
     <string>Username:</string>
    </property>
   </widget>
  </item>
  <item row="2" column="1" >
   <widget class="QLineEdit" name="userEdit" />
  </item>
  <item row="3" column="0" >
   <widget class="QLabel" name="label_3" >
    <property name="text" >
```

```
   <string>Password:</string>
  </property>
 </widget>
</item>
<item row="3" column="1" >
 <widget class="QLineEdit" name="passwordEdit" />
</item>
<item row="5" column="0" colspan="2" >
 <widget class="QDialogButtonBox" name="buttonBox" >
  <property name="orientation" >
   <enum>Qt::Horizontal</enum>
  </property>
  <property name="standardButtons" >
   <set>QDialogButtonBox::Cancel|QDialogButtonBox::Ok</set>
  </property>
 </widget>
</item>
<item row="1" column="0" >
 <widget class="QLabel" name="label_4" >
  <property name="text" >
   <string>Site:</string>
  </property>
 </widget>
</item>
<item row="1" column="1" >
 <widget class="QLabel" name="siteDescription" >
  <property name="font" >
   <font>
    <weight>75</weight>
    <bold>true</bold>
   </font>
  </property>
  <property name="text" >
   <string>%1 at %2</string>
  </property>
  <property name="wordWrap" >
   <bool>true</bool>
  </property>
 </widget>
</item>
<item row="4" column="0" >
 <spacer>
  <property name="orientation" >
   <enum>Qt::Vertical</enum>
  </property>
  <property name="sizeHint" >
   <size>
    <width>20</width>
```

```
        <height>40</height>
       </size>
      </property>
     </spacer>
    </item>
   </layout>
  </widget>
  <resources/>
  <connections>
   <connection>
    <sender>buttonBox</sender>
    <signal>accepted()</signal>
    <receiver>Dialog</receiver>
    <slot>accept()</slot>
    <hints>
     <hint type="sourcelabel" >
      <x>248</x>
      <y>254</y>
     </hint>
     <hint type="destinationlabel" >
      <x>157</x>
      <y>274</y>
     </hint>
    </hints>
   </connection>
   <connection>
    <sender>buttonBox</sender>
    <signal>rejected()</signal>
    <receiver>Dialog</receiver>
    <slot>reject()</slot>
    <hints>
     <hint type="sourcelabel" >
      <x>316</x>
      <y>260</y>
     </hint>
     <hint type="destinationlabel" >
      <x>286</x>
      <y>274</y>
     </hint>
    </hints>
   </connection>
  </connections>
 </ui>
 <ui version="4.0" >
 <class>Dialog</class>
 <widget class="QDialog" name="Dialog" >
  <property name="geometry" >
   <rect>
```

```
  <x>0</x>
  <y>0</y>
  <width>451</width>
  <height>322</height>
 </rect>
 </property>
 <property name="windowTitle" >
  <string>Dialog</string>
 </property>
 <layout class="QGridLayout" >
  <item row="0" column="0" >
   <widget class="QPushButton" name="loadFromFileButton" >
    <property name="text" >
     <string>Load Image From File...</string>
    </property>
   </widget>
  </item>
  <item row="1" column="0" >
   <widget class="QLabel" name="label" >
    <property name="text" >
     <string>Launch two of these dialogs.  In the first, press the top button and load an image from a file.  In the
second, press the bottom button and display the loaded image from shared memory.</string>
    </property>
    <property name="alignment" >
     <set>Qt::AlignCenter</set>
    </property>
    <property name="wordWrap" >
     <bool>true</bool>
    </property>
   </widget>
  </item>
  <item row="2" column="0" >
   <widget class="QPushButton" name="loadFromSharedMemoryButton" >
    <property name="text" >
     <string>Display Image From Shared Memory</string>
    </property>
   </widget>
  </item>
 </layout>
</widget>
<resources/>
<connections/>
</ui>
MNG

MHDRddI~i
IHDRddpTIDATx17RL!B0`
)SL!B0`
```

)SL!B0`

)SL!B0`

)SL!B0`

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)SL!B0`

)SL!B0`

)SL!B0`

)SL!B0`

)SL!+hQIENDB`

IHDRddpTIDATx

!@:$[JK+"H 1#H 1#H 1l+

99oHAbFAbFAb$FAbc$AbFAbFAbFAbFAbFAbFAbFAbFAbFAbFAbFAbFAb$FAb

$FAbY<phIENDB`

IHDRddpTUIDATxm1A_lmH"H 1#H 1#H 1$ vO$H 1#H 1#H 1#H 1#H 1c$Ab$FAb# q2; 2jAPZd8 pAC-2jAPZd8

pAC-2jAPZd8 pA|{3X3X/%H 1#H 1#H 1#H 1#H 1#H 1#H1L7IENDB`

IHDRddpTTIDATxm1Aw'[C00ep?#H 1#H 1#H 1o#Ary'y #H 1#H 1#H 1#H 1#H7Abs1FAb$FAby9|"sNZd8 pAC-

2jAPZd8 pAC-2jAPZd8 pAC-2jAdK #H 1#H 1#H 1#H 1#H 1#H 1'

5kIENDB`

IHDRddpTdIDATx1n@Ad@5pB(X@b$X@b$X@bu}:$X:w1 H, H, H, H, z, B, H, } `Pj"

CMdp5&28D@P%@79D@P@Nda,da,da,da,da?r@MH, H, H Huyu@b$X@b$X@bI+"EWIENDB`

IHDRddpTeIDATx1A1?? K5\

TGH, H, H_|>+O@r7$X@b$X@b$X@b$X@bXSX\$X@b$X@< dd8" pE@C-2jPZd8oo9" (r# }= r`nr0

}gk>z7[$X@b$X@b$XWAn7$XA$X@b$X@b$eVIENDB`

IHDRddpTIDATx1NQAnQ| zZrl>>5d, cX@2W3x<.,

@19u3o_=fqH8fqH8fqH8fqH8fqH8fqH8fqH8fqH8fqH8fqH8fqH8fqH8fq;6d, cM}, c.d, cX@2}:uf@C *U$H8Tp"

PE@&&k oC *" #(<H2 #(<H2 #(<M o{u@2d, cX@2 Wu:: cX@2d, c uEB?IENDB`

IHDRddpTIDATxq@Xz8r\ | cda12A0 cua_,|\@mA@wD%ge3$fI0(aP&1 LbA@2e3$fI0(aP&1 O?&9 n2A0>A0\

cda12A0A .@A@~!{b=2A0 cdsnHQEE0A A} b>1H@P{A$ AwP 1-IhWnj_G-

&~u[P{M>mA}4hWnj_}K>X@A62A0 cda12A0u9rIENDB`

IHDRddpTIDATx1nAx.wS0RS2']@d"+Y

DV @t~"1?v#pLF @1c7$nI8&q#pLF @1c7$nIC"T @d"+Y

DV @d"+Y==5Y PDCE8Q PDCE8Q PD

|#;mm K?r(@t 20{@2X m`^ 20{@=o|(H] @d"+Y

DV

@d"k@d"+Y

DV @d"h!I[2IENDB`

IHDRddpTMIDATx@?6rd=B5p2y

H, H, H, 2 {@c.nd8@c.nd8@c.nd8@c.nvgH, H, H, H, H, H, H\V;{H, H, H, H, H, H, n=1 8<: H, H,

z6wMOQIENDB`

IHDRddpTMIDATx1n@A>?"#)T.?J$X@b$X@b$X@u= d8@c.nd8@c.nd8@c.nd8@iw@(H, H, H, H, H, H,

z;u]{OH, nH, H, H, H, H, H, VHH, H, H?X|wTIENDB`

IHDRddpT;IDATx

AAms{oj5{

H, H, H, twd

17\2sqp

17\2sqp

17\2sqp

17\?

Q@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@
b}[R$IENDB`

IHDRddpT;IDATx

AAus{oj5{

H, H, H, twd

17\2sqp

17\2sqp

17\2sqp

17\?

Q@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@b$X@
b}(IENDB`

IHDRddpTIDATx17RL!B0`

)SL!B0`

)SL!B0`

)SL!B0`

)SL!B0`

)SL!B0`

)SL!B0`

)SL!B0`

)SL!B0`

)SL!B0`

)SL!B0`

)SL!B0`

)SL!+hQIENDB`MEND!

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ui version="4.0">
<class>StyleSheetEditor</class>
<widget class="QWidget" name="StyleSheetEditor">
 <property name="geometry">
  <rect>
   <x>0</x>
   <y>0</y>
   <width>445</width>
   <height>289</height>
  </rect>
 </property>
 <property name="windowTitle">
  <string>Style Editor</string>
 </property>
 <layout class="QGridLayout">
  <property name="margin">
   <number>9</number>
  </property>
  <property name="spacing">
```

```xml
  <number>6</number>
 </property>
 <item row="0" column="6">
  <spacer>
   <property name="orientation">
    <enum>Qt::Horizontal</enum>
   </property>
   <property name="sizeType">
    <enum>QSizePolicy::MinimumExpanding</enum>
   </property>
   <property name="sizeHint" stdset="0">
    <size>
     <width>32</width>
     <height>20</height>
    </size>
   </property>
  </spacer>
 </item>
 <item row="0" column="0">
  <spacer>
   <property name="orientation">
    <enum>Qt::Horizontal</enum>
   </property>
   <property name="sizeType">
    <enum>QSizePolicy::MinimumExpanding</enum>
   </property>
   <property name="sizeHint" stdset="0">
    <size>
     <width>32</width>
     <height>20</height>
    </size>
   </property>
  </spacer>
 </item>
 <item row="0" column="5">
  <widget class="QComboBox" name="styleSheetCombo">
   <item>
    <property name="text">
     <string>Default</string>
    </property>
   </item>
   <item>
    <property name="text">
     <string>Coffee</string>
    </property>
   </item>
   <item>
    <property name="text">
```

```xml
      <string>Pagefold</string>
     </property>
    </item>
   </widget>
  </item>
  <item row="0" column="3">
   <spacer>
    <property name="orientation">
     <enum>Qt::Horizontal</enum>
    </property>
    <property name="sizeType">
     <enum>QSizePolicy::Fixed</enum>
    </property>
    <property name="sizeHint" stdset="0">
     <size>
      <width>10</width>
      <height>16</height>
     </size>
    </property>
   </spacer>
  </item>
  <item row="0" column="2">
   <widget class="QComboBox" name="styleCombo">
    <property name="sizePolicy">
     <sizepolicy hsizetype="Preferred" vsizetype="Fixed">
      <horstretch>0</horstretch>
      <verstretch>0</verstretch>
     </sizepolicy>
    </property>
   </widget>
  </item>
  <item row="0" column="1">
   <widget class="QLabel" name="label_7">
    <property name="sizePolicy">
     <sizepolicy hsizetype="Fixed" vsizetype="Preferred">
      <horstretch>0</horstretch>
      <verstretch>0</verstretch>
     </sizepolicy>
    </property>
    <property name="text">
     <string>Style:</string>
    </property>
   </widget>
  </item>
  <item row="2" column="0" colspan="7">
   <layout class="QHBoxLayout">
    <property name="spacing">
     <number>6</number>
```

```xml
      </property>
      <property name="margin">
       <number>0</number>
      </property>
      <item>
       <spacer>
        <property name="orientation">
         <enum>Qt::Horizontal</enum>
        </property>
        <property name="sizeHint" stdset="0">
         <size>
          <width>321</width>
          <height>20</height>
         </size>
        </property>
       </spacer>
      </item>
      <item>
       <widget class="QPushButton" name="saveButton">
        <property name="enabled">
         <bool>true</bool>
        </property>
        <property name="text">
         <string>&Save</string>
        </property>
       </widget>
      </item>
      <item>
       <widget class="QPushButton" name="applyButton">
        <property name="enabled">
         <bool>false</bool>
        </property>
        <property name="text">
         <string>&Apply</string>
        </property>
       </widget>
      </item>
     </layout>
    </item>
    <item row="1" column="0" colspan="7">
     <widget class="QTextEdit" name="styleTextEdit"/>
    </item>
    <item row="0" column="4">
     <widget class="QLabel" name="label_8">
      <property name="sizePolicy">
       <sizepolicy hsizetype="Fixed" vsizetype="Preferred">
        <horstretch>0</horstretch>
        <verstretch>0</verstretch>
```

```
    </sizepolicy>
   </property>
   <property name="text">
    <string>Style Sheet:</string>
   </property>
  </widget>
 </item>
 </layout>
</widget>
<resources/>
<connections/>
</ui>
/* empty stylesheet */
/* Customize any plain widget that is a child of a QMainWindow. */
QMainWindow > .QWidget {
    background-color: gainsboro;
    background-image: url(:/images/pagefold.png);
    background-position: top right;
    background-repeat: no-repeat
}

/* Provide a padding for the layout inside the frame. The frame
   exists only to provide a padding for the top-right image, so we
   explicitly disable the border. */
#mainFrame {
    padding-right: 30px;
    border-style: none;
    border-image: none; /* since we set a border-image below */
}

/* mainFrame won't have this border-image since we have
   explicitly set it to 'none' using a more specific selector. */
QFrame, QLineEdit, QComboBox[editable="true"], QSpinBox {
    border-image: url(:/images/frame.png) 4;
    border-width: 3;
}

QLabel {
    border: none;
    border-image: none;
    padding: 0;
    background: none;
}

/* Make text in message boxes selectable. */
QMessageBox {
    /* LinksAccessibleByMouse | TextSelectableByMouse */
    messagebox-text-interaction-flags: 5;
```

```
}

/* Set the selection colors for all widgets. */
QWidget {
  selection-color: black;
  selection-background-color: Silver;
  color: black;
}

/* Make the entire row selected in item views. */
QAbstractItemView {
  show-decoration-selected: 1;
}

/* Nice WindowsXP-style password character for password line edits. */
QLineEdit[echoMode="2"] {
  lineedit-password-character: 9679;
}

/* Customize tooltips. */
QToolTip {
  background-color: rgb(200,200,255);
  border-color: darkslategray;
  border-width: 1px;
  border-style: solid;
  padding: 3px;
  font: bold;
  border-radius: 3px;
  opacity: 200;
}

/* Customize radio buttons. */

QRadioButton {
  spacing: 5px;
}

QRadioButton::indicator {
  width: 13px;
  height: 13px;
}

QRadioButton::indicator::unchecked {
  image: url(:/images/radiobutton_unchecked.png);
}

QRadioButton::indicator:unchecked:hover {
  image: url(:/images/radiobutton_unchecked_hover.png);
```

```
}

QRadioButton::indicator:unchecked:pressed {
   image: url(:/images/radiobutton_unchecked_pressed.png);
}

QRadioButton::indicator::checked {
   image: url(:/images/radiobutton_checked.png);
}

QRadioButton::indicator:checked:hover {
   image: url(:/images/radiobutton_checked_hover.png);
}

QRadioButton::indicator:checked:pressed {
   image: url(:/images/radiobutton_checked_pressed.png);
}

/* Customize arrows. */

*::down-arrow, *::menu-indicator {
   image: url(:/images/down_arrow.png);
   width: 7px;
   height: 7px;
}

*::down-arrow:disabled, *::down-arrow:off {
  image: url(:/images/down_arrow_disabled.png);
}

*::up-arrow {
   image: url(:/images/up_arrow.png);
   width: 7px;
   height: 7px;
}

*::up-arrow:disabled, *::up-arrow:off {
  image: url(:/images/up_arrow_disabled.png);
}

/* Customize push buttons and comboboxes. Our read-only combobox
   is very similar to a push button, so they share the same border image. */

QPushButton {
   min-width: 4em;
}

QPushButton, QComboBox[editable="false"],
```

```
QComboBox[editable="true"]::drop-down {
  border-image: url(:/images/pushbutton.png) 5;
  border-width: 5;
}

QPushButton:hover, QComboBox[editable="false"]:hover,
QComboBox[editable="true"]::drop-down:hover, QMenuBar::item:hover {
  border-image: url(:/images/pushbutton_hover.png) 5;
  border-width: 5;
}

QPushButton:pressed, QComboBox[editable="false"]:on,
QComboBox[editable="true"]::drop-down:on, QMenuBar::item:on {
  border-image: url(:/images/pushbutton_pressed.png) 5;
  border-width: 5;
}

/* Customize read-only comboboxes. */

QComboBox[editable="false"] {
  padding-left: 3px;
  padding-right: 20px; /* space for the arrow */
}

QComboBox[editable="false"]::drop-down {
  subcontrol-origin: padding;
  subcontrol-position: top right;
  width: 15px;
  border-left-style: solid;
  border-left-color: darkgray;
  border-left-width: 1px;
}

QComboBox[editable="false"]::down-arrow {
  subcontrol-origin: content;
  subcontrol-position: center;
  position: relative;
  left: 1px; /* 1 pixel dropdown border */
}

/* The combobox arrow is on when the popup is open. */
QComboBox[editable="false"]::down-arrow:on {
  position: relative;
  top: 1px;
  left: 2px;
}

/* Customize editable comboboxes. */
```

```
QComboBox[editable="true"] {
  padding-right: 16px;
}

QComboBox[editable="true"]::drop-down {
  subcontrol-origin: border;
  subcontrol-position: top right;
  width: 13px;
  position: absolute;
  top: 2px;
  bottom: 2px;
  right: 2px;
}

QComboBox[editable="true"]::drop-down,
QComboBox[editable="true"]::drop-down:hover,
QComboBox[editable="true"]::drop-down:on {
  border-width: 0px;
  border-left-width: 3px; /* we need only left and center part */
}

/* Shift the arrow when it's open. */
QComboBox[editable="true"]::down-arrow:on {
  position: relative;
  top: 1px;
  left: 1px;
}

/* Customize check boxes. */
QCheckBox {
  spacing: 5px;
}

QCheckBox::indicator {
  width: 13px;
  height: 13px;
}

QCheckBox::indicator:unchecked {
  image: url(:/images/checkbox_unchecked.png);
}

QCheckBox::indicator:unchecked:hover {
  image: url(:/images/checkbox_unchecked_hover.png);
}

QCheckBox::indicator:unchecked:pressed {
```

```
    image: url(:/images/checkbox_unchecked_pressed.png);
}

QCheckBox::indicator:checked {
    image: url(:/images/checkbox_checked.png);
}

QCheckBox::indicator:checked:hover {
    image: url(:/images/checkbox_checked_hover.png);
}

QCheckBox::indicator:checked:pressed {
    image: url(:/images/checkbox_checked_pressed.png);
}

/* Customize the size grip. */
QSizeGrip {
    image: url(:/images/sizegrip.png);
    width: 16px;
    height: 16px;
}

/* Customize the menu bar. */
QMenuBar {
    border-image: none;
    border-style: none;
    border-width: 1px;
    border-bottom-style: solid;
    border-bottom-color: darkslategray;
    padding: 2px;
}

/* Customize spin boxes. */

QSpinBox {
    padding-right: 15px;
}

QSpinBox::up-button {
    subcontrol-origin: border;
    subcontrol-position: top right;

    width: 16px; /* 16 + 2*1px border-width = 15px padding + 3px parent border */
    border-image: url(:/images/spinup.png) 1;
    border-width: 1px;
}

QSpinBox::up-button:hover {
```

```
    border-image: url(:/images/spinup_hover.png) 1;
}


QSpinBox::up-button:pressed {
    border-image: url(:/images/spinup_pressed.png) 1;
}


QSpinBox::down-button {
    subcontrol-origin: border;
    subcontrol-position: bottom right;

    width: 16px;
    border-image: url(:/images/spindown.png) 1;
    border-width: 1px;
    border-top-width: 0;
}


QSpinBox::down-button:hover {
    border-image: url(:/images/spindown_hover.png) 1;
}


QSpinBox::down-button:pressed {
    border-image: url(:/images/spindown_pressed.png) 1;
}
.QWidget {
 background-color: beige;
}


/* Nice Windows-XP-style password character. */
QLineEdit[echoMode="2"] {
    lineedit-password-character: 9679;
}


/* We provide a min-width and min-height for push buttons
   so that they look elegant regardless of the width of the text. */
QPushButton {
    background-color: palegoldenrod;
    border-width: 2px;
    border-color: darkkhaki;
    border-style: solid;
    border-radius: 5;
    padding: 3px;
    min-width: 9ex;
    min-height: 2.5ex;
}


QPushButton:hover {
 background-color: khaki;
```

```
}

/* Increase the padding, so the text is shifted when the button is
   pressed. */
QPushButton:pressed {
  padding-left: 5px;
  padding-top: 5px;
  background-color: #d0d67c;
}

QLabel, QAbstractButton {
  font: bold;
}

/* Mark mandatory fields with a brownish color. */
.mandatory {
  color: brown;
}

/* Bold text on status bar looks awful. */
QStatusBar QLabel {
 font: normal;
}

QStatusBar::item {
  border-width: 1;
  border-color: darkkhaki;
  border-style: solid;
  border-radius: 2;
}

QComboBox, QLineEdit, QSpinBox, QTextEdit, QListView {
  background-color: cornsilk;
  selection-color: #0a214c;
  selection-background-color: #C19A6B;
}

QListView {
  show-decoration-selected: 1;
}

QListView::item:hover {
  background-color: wheat;
}

/* We reserve 1 pixel space in padding. When we get the focus,
   we kill the padding and enlarge the border. This makes the items
   glow. */
```

```
QLineEdit, QFrame {
  border-width: 2px;
  padding: 1px;
  border-style: solid;
  border-color: darkkhaki;
  border-radius: 5px;
}

/* As mentioned above, eliminate the padding and increase the border. */
QLineEdit:focus, QFrame:focus {
  border-width: 3px;
  padding: 0px;
}

/* A QLabel is a QFrame ... */
QLabel {
  border: none;
  padding: 0;
  background: none;
}

/* A QToolTip is a QLabel ... */
QToolTip {
  border: 2px solid darkkhaki;
  padding: 5px;
  border-radius: 3px;
  opacity: 200;
}

/* Nice to have the background color change when hovered. */
QRadioButton:hover, QCheckBox:hover {
  background-color: wheat;
}

/* Force the dialog's buttons to follow the Windows guidelines. */
QDialogButtonBox {
  button-layout: 0;
}
<ui version="4.0" >
<class>MainWindow</class>
<widget class="QMainWindow" name="MainWindow" >
 <property name="geometry" >
  <rect>
   <x>0</x>
   <y>0</y>
   <width>400</width>
   <height>413</height>
  </rect>
```

```xml
</property>
<property name="windowTitle" >
 <string>Style Sheet</string>
</property>
<widget class="QWidget" name="centralwidget" >
 <layout class="QVBoxLayout" >
  <property name="margin" >
   <number>9</number>
  </property>
  <property name="spacing" >
   <number>6</number>
  </property>
  <item>
   <widget class="QFrame" name="mainFrame" >
    <property name="frameShape" >
     <enum>QFrame::StyledPanel</enum>
    </property>
    <property name="frameShadow" >
     <enum>QFrame::Raised</enum>
    </property>
    <layout class="QGridLayout" >
     <property name="margin" >
      <number>9</number>
     </property>
     <property name="spacing" >
      <number>6</number>
     </property>
     <item row="6" column="0" colspan="5" >
      <widget class="QCheckBox" name="agreeCheckBox" >
       <property name="toolTip" >
        <string>Please read the LICENSE file before checking</string>
       </property>
       <property name="text" >
        <string>I accept the terms and &conditions</string>
       </property>
      </widget>
     </item>
     <item row="5" column="0" >
      <widget class="QLabel" name="label" >
       <property name="text" >
        <string>Profession:</string>
       </property>
       <property name="alignment" >
        <set>Qt::AlignRight|Qt::AlignTop|Qt::AlignTrailing</set>
       </property>
       <property name="buddy" >
        <cstring>professionList</cstring>
       </property>
```

```
      </widget>
    </item>
    <item row="0" column="0" >
     <widget class="QLabel" name="nameLabel" >
      <property name="text" >
       <string>&Name:</string>
      </property>
      <property name="alignment" >
       <set>Qt::AlignRight|Qt::AlignTrailing|Qt::AlignVCenter</set>
      </property>
      <property name="buddy" >
       <cstring>nameCombo</cstring>
      </property>
     </widget>
    </item>
    <item row="1" column="1" >
     <widget class="QRadioButton" name="maleRadioButton" >
      <property name="toolTip" >
       <string>Check this if you are male</string>
      </property>
      <property name="text" >
       <string>&Male</string>
      </property>
     </widget>
    </item>
    <item row="3" column="0" >
     <widget class="QLabel" name="passwordLabel" >
      <property name="text" >
       <string>&Password:</string>
      </property>
      <property name="alignment" >
       <set>Qt::AlignRight|Qt::AlignTrailing|Qt::AlignVCenter</set>
      </property>
      <property name="buddy" >
       <cstring>passwordEdit</cstring>
      </property>
     </widget>
    </item>
    <item row="4" column="1" colspan="4" >
     <widget class="QComboBox" name="countryCombo" >
      <property name="toolTip" >
       <string>Specify country of origin</string>
      </property>
      <property name="statusTip" >
       <string>Specify country of origin</string>
      </property>
      <property name="currentIndex" >
       <number>6</number>
```

```xml
    </property>
    <item>
     <property name="text" >
      <string>Egypt</string>
     </property>
    </item>
    <item>
     <property name="text" >
      <string>France</string>
     </property>
    </item>
    <item>
     <property name="text" >
      <string>Germany</string>
     </property>
    </item>
    <item>
     <property name="text" >
      <string>India</string>
     </property>
    </item>
    <item>
     <property name="text" >
      <string>Italy</string>
     </property>
    </item>
    <item>
     <property name="text" >
      <string>Norway</string>
     </property>
    </item>
    <item>
     <property name="text" >
      <string>Pakistan</string>
     </property>
    </item>
   </widget>
  </item>
  <item row="2" column="0" >
   <widget class="QLabel" name="ageLabel" >
    <property name="text" >
     <string>&Age:</string>
    </property>
    <property name="alignment" >
     <set>Qt::AlignRight|Qt::AlignTrailing|Qt::AlignVCenter</set>
    </property>
    <property name="buddy" >
     <cstring>ageSpinBox</cstring>
```

```xml
      </property>
     </widget>
    </item>
    <item row="4" column="0" >
     <widget class="QLabel" name="countryLabel" >
      <property name="text" >
       <string>Country:</string>
      </property>
      <property name="alignment" >
       <set>Qt::AlignRight|Qt::AlignTrailing|Qt::AlignVCenter</set>
      </property>
      <property name="buddy" >
       <cstring>countryCombo</cstring>
      </property>
     </widget>
    </item>
    <item row="1" column="0" >
     <widget class="QLabel" name="genderLabel" >
      <property name="text" >
       <string>Gender:</string>
      </property>
      <property name="alignment" >
       <set>Qt::AlignRight|Qt::AlignTrailing|Qt::AlignVCenter</set>
      </property>
     </widget>
    </item>
    <item row="3" column="1" colspan="4" >
     <widget class="QLineEdit" name="passwordEdit" >
      <property name="toolTip" >
       <string>Specify your password</string>
      </property>
      <property name="statusTip" >
       <string>Specify your password</string>
      </property>
      <property name="text" >
       <string>Password</string>
      </property>
      <property name="echoMode" >
       <enum>QLineEdit::Password</enum>
      </property>
     </widget>
    </item>
    <item row="1" column="2" colspan="2" >
     <widget class="QRadioButton" name="femaleRadioButton" >
      <property name="toolTip">
       <string>Check this if you are female</string>
      </property>
      <property name="text" >
```

```xml
    <string>&Female</string>
   </property>
  </widget>
 </item>
 <item row="2" column="1" colspan="2" >
  <widget class="QSpinBox" name="ageSpinBox" >
   <property name="toolTip" >
    <string>Specify your age</string>
   </property>
   <property name="statusTip" >
    <string>Specify your age</string>
   </property>
   <property name="minimum" >
    <number>12</number>
   </property>
   <property name="value" >
    <number>22</number>
   </property>
  </widget>
 </item>
 <item row="0" column="1" colspan="4" >
  <widget class="QComboBox" name="nameCombo" >
   <property name="toolTip" >
    <string>Specify your name</string>
   </property>
   <property name="editable" >
    <bool>true</bool>
   </property>
  </widget>
 </item>
 <item row="1" column="4" >
  <spacer>
   <property name="orientation" >
    <enum>Qt::Horizontal</enum>
   </property>
   <property name="sizeHint" >
    <size>
     <width>40</width>
     <height>20</height>
    </size>
   </property>
  </spacer>
 </item>
 <item row="2" column="3" colspan="2" >
  <spacer>
   <property name="orientation" >
    <enum>Qt::Horizontal</enum>
   </property>
```

```
       <property name="sizeHint" >
        <size>
         <width>61</width>
         <height>20</height>
        </size>
       </property>
      </spacer>
     </item>
     <item row="7" column="3" colspan="2" >
      <widget class="QDialogButtonBox" name="buttonBox" >
       <property name="orientation" >
        <enum>Qt::Horizontal</enum>
       </property>
       <property name="standardButtons" >
        <set>QDialogButtonBox::Cancel|QDialogButtonBox::NoButton|QDialogButtonBox::Ok</set>
       </property>
      </widget>
     </item>
     <item row="5" column="1" colspan="4" >
      <widget class="QListWidget" name="professionList" >
       <property name="toolTip" >
        <string>Select your profession</string>
       </property>
       <property name="statusTip" >
        <string>Specify your name here</string>
       </property>
       <property name="whatsThis" >
        <string>Specify your name here</string>
       </property>
       <property name="currentRow" >
        <number>0</number>
       </property>
       <item>
        <property name="text" >
         <string>Developer</string>
        </property>
       </item>
       <item>
        <property name="text" >
         <string>Student</string>
        </property>
       </item>
       <item>
        <property name="text" >
         <string>Fisherman</string>
        </property>
       </item>
      </widget>
```

```
        </item>
      </layout>
     </widget>
    </item>
   </layout>
  </widget>
  <widget class="QMenuBar" name="menubar" >
   <property name="geometry" >
    <rect>
     <x>0</x>
     <y>0</y>
     <width>400</width>
     <height>29</height>
    </rect>
   </property>
   <widget class="QMenu" name="menu_File" >
    <property name="title" >
     <string>&File</string>
    </property>
    <addaction name="editStyleAction" />
    <addaction name="separator" />
    <addaction name="exitAction" />
   </widget>
   <widget class="QMenu" name="menu_Help" >
    <property name="title" >
     <string>&Help</string>
    </property>
    <addaction name="aboutAction" />
    <addaction name="aboutQtAction" />
   </widget>
   <addaction name="menu_File" />
   <addaction name="menu_Help" />
  </widget>
  <widget class="QStatusBar" name="statusbar" />
  <action name="exitAction" >
   <property name="text" >
    <string>&Exit</string>
   </property>
  </action>
  <action name="aboutQtAction" >
   <property name="text" >
    <string>About Qt</string>
   </property>
  </action>
  <action name="editStyleAction" >
   <property name="text" >
    <string>Edit &Style...</string>
   </property>
```

```xml
    </action>
  <action name="aboutAction" >
   <property name="text" >
    <string>About</string>
   </property>
  </action>
 </widget>
 <resources/>
 <connections/>
 </ui>
 <RCC>
 <qresource prefix="/">
   <file>qss/coffee.qss</file>
   <file>qss/default.qss</file>
   <file>qss/pagefold.qss</file>
   <file>images/pagefold.png</file>
   <file>images/frame.png</file>
   <file>images/radiobutton_unchecked.png</file>
   <file>images/radiobutton_unchecked_pressed.png</file>
   <file>images/radiobutton_unchecked_hover.png</file>
   <file>images/radiobutton_checked.png</file>
   <file>images/radiobutton_checked_pressed.png</file>
   <file>images/radiobutton_checked_hover.png</file>
   <file>images/pushbutton.png</file>
   <file>images/pushbutton_hover.png</file>
   <file>images/pushbutton_pressed.png</file>
   <file>images/checkbox_unchecked.png</file>
   <file>images/checkbox_unchecked_pressed.png</file>
   <file>images/checkbox_unchecked_hover.png</file>
   <file>images/checkbox_checked.png</file>
   <file>images/checkbox_checked_pressed.png</file>
   <file>images/checkbox_checked_hover.png</file>
   <file>images/down_arrow.png</file>
   <file>images/down_arrow_disabled.png</file>
   <file>images/up_arrow.png</file>
   <file>images/up_arrow_disabled.png</file>
   <file>images/sizegrip.png</file>
   <file>images/spinup.png</file>
   <file>images/spinup_off.png</file>
   <file>images/spinup_hover.png</file>
   <file>images/spinup_pressed.png</file>
   <file>images/spindown.png</file>
   <file>images/spindown_off.png</file>
   <file>images/spindown_hover.png</file>
   <file>images/spindown_pressed.png</file>
 </qresource>
 </RCC>
```

<d!`B[%Ni![%N/>
MainWindow
.. _ref-deploy-commercial:

Deploying Commercial PyQt4 Applications
=======================================

When deploying commercial PyQt4 applications it is necessary to discourage
users from accessing the underlying PyQt4 modules for themselves. A user that
used the modules shipped with your application to develop new applications
would themselves be considered a developer and would need their own commercial
PyQt4 license.

One solution to this problem is the `VendorID
<http://www.riverbankcomputing.com/software/vendorid/>`__ package. This allows
you to build Python extension modules that can only be imported by a digitally
signed custom interpreter. The package enables you to create such an
interpreter with your application embedded within it. The result is an
interpreter that can only run your application, and PyQt4 modules that can only
be imported by that interpreter. You can use the package to similarly restrict
access to any extension module.

In order to build PyQt4 with support for the VendorID package, pass the
:option:`--vendorid <configure.py --vendorid>` command line option to
:program:`configure.py`.
Support for Keyword Arguments
=============================

Starting with v4.7 PyQt4 supports the use of keyword arguments for optional
arguments.

One thing to be aware of is that, although the PyQt4 and Qt documentation may
indicate that an argument has a particular name, you may find that PyQt4
actually uses a different name. This is because the name of an argument is not
part of the Qt API and there is some inconsistency in the way that similar
arguments are named. Different versions of Qt may use a different name for an
argument which wouldn't affect the C++ API but would break the Python API.

The docstrings that PyQt4 generates for all classes, functions and methods will
contain the correct argument names. In a future version of PyQt4 the
documentation will also contain the correct argument names.
Internationalisation of PyQt4 Applications
==

PyQt4 and Qt include a comprehensive set of tools for translating applications
into local languages. For a full description, see the Qt Linguist Manual in
the Qt documentation.

The process of internationalising an application comprises the following steps.

- The programmer uses :program:`pylupdate4` to create or update a ``.ts``
  translation file for each language that the application is to be translated
  into. A ``.ts`` file is an XML file that contains the strings to be
  translated and the corresponding translations that have already been made.
  :program:`pylupdate4` can be run any number of times during development to
  update the ``.ts`` files with the latest strings for translation.

- The translator uses Qt Linguist to update the ``.ts`` files with translations
  of the strings.

- The release manager then uses Qt's :program:`lrelease` utility to convert the
  ``.ts`` files to ``.qm`` files which are compact binary equivalents used by
  the application. If an application cannot find an appropriate ``.qm`` file,
  or a particular string hasn't been translated, then the strings used in the
  original source code are used instead.

- The release manage may optionally use :program:`pyrcc4` to embed the ``.qm``
  files, along with other application resources such as icons, in a Python
  module. This may make packaging and distribution of the application easier.

:program:`pylupdate4`

.. program:: pylupdate4

:program:`pylupdate4` is PyQt4's equivalent to Qt's :program:`lupdate` utility
and is used in exactly the same way. A Qt ``.pro`` project file is read that
specifies the Python source files and Qt Designer interface files from which
the text that needs to be translated is extracted. The ``.pro`` file also
specifies the ``.ts`` translation files that :program:`pylupdate4` updates (or
creates if necessary) and are subsequently used by Qt Linguist.

:program:`pylupdate4` will only be included if your copy of Qt includes the XML
module.

Differences Between PyQt4 and Qt

Qt implements internationalisation support through the ``QTranslator`` class,
and the ``QCoreApplication::translate()``, ``QObject::tr()`` and
``QObject::trUtf8()`` methods. Usually the ``tr()`` method is used to obtain
the correct translation of a message. The translation process uses a message
context to allow the same message to be translated differently. ``tr()`` is

actually generated by ``moc`` and uses the hardcoded class name as the context. On the other hand, ``QApplication::translate()`` allows the context to be explicitly stated.

Unfortunately, because of the way Qt implements ``tr()`` (and ``trUtf8()``) it is not possible for PyQt4 to exactly reproduce its behaviour. The PyQt4 implementation of ``tr()`` (and ``trUtf8()``) uses the class name of the instance as the context. The key difference, and the source of potential problems, is that the context is determined dynamically in PyQt4, but is hardcoded in Qt. In other words, the context of a translation may change depending on an instance's class hierarchy. For example::

```
class A(QtCore.QObject):
    def hello(self):
        return self.tr("Hello")

class B(A):
    pass

a = A()
a.hello()

b = B()
b.hello()
```

In the above the message is translated by ``a.hello()`` using a context of ``A``, and by ``b.hello()`` using a context of ``B``. In the equivalent C++ version the context would be ``A`` in both cases.

The PyQt4 behaviour is unsatisfactory and may be changed in the future. It is recommended that ``QCoreApplication.translate()`` be used in preference to ``tr()`` (and ``trUtf8()``). This is guaranteed to work with current and future versions of PyQt4 and makes it much easier to share message files between Python and C++ code. Below is the alternative implementation of ``A`` that uses ``QCoreApplication.translate()``::

```
class A(QtCore.QObject):
    def hello(self):
        return QtCore.QCoreApplication.translate("A", "Hello")
```

New-style Signal and Slot Support
================================

This section describes the new style of connecting signals and slots introduced in PyQt4 v4.5.

One of the key features of Qt is its use of signals and slots to communicate between objects. Their use encourages the development of reusable components.

A signal is emitted when something of potential interest happens. A slot is a Python callable. If a signal is connected to a slot then the slot is called when the signal is emitted. If a signal isn't connected then nothing happens. The code (or component) that emits the signal does not know or care if the signal is being used.

The signal/slot mechanism has the following features.

- A signal may be connected to many slots.

- A signal may also be connected to another signal.

- Signal arguments may be any Python type.

- A slot may be connected to many signals.

- Connections may be direct (ie. synchronous) or queued (ie. asynchronous).

- Connections may be made across threads.

- Signals may be disconnected.

Unbound and Bound Signals

A signal (specifically an unbound signal) is an attribute of a class that is a sub-class of ``QObject``. When a signal is referenced as an attribute of an instance of the class then PyQt4 automatically binds the instance to the signal in order to create a *bound signal*. This is the same mechanism that Python itself uses to create bound methods from class functions.

A bound signal has ``connect()``, ``disconnect()`` and ``emit()`` methods that implement the associated functionality. It also has a ``signal`` attribute that is the signature of the signal that would be returned by Qt's ``SIGNAL()`` macro.

A signal may be overloaded, ie. a signal with a particular name may support more than one signature. A signal may be indexed with a signature in order to select the one required. A signature is a sequence of types. A type is either a Python type object or a string that is the name of a C++ type. The name of a C++ type is automatically normalised so that, for example, ``QString`` can be used instead of the non-normalised ``const QString &``.

If a signal is overloaded then it will have a default that will be used if no index is given.

When a signal is emitted then any arguments are converted to C++ types if

possible. If an argument doesn't have a corresponding C++ type then it is wrapped in a special C++ type that allows it to be passed around Qt's meta-type system while ensuring that its reference count is properly maintained.

Defining New Signals with :func:`~PyQt4.QtCore.pyqtSignal`

PyQt4 automatically defines signals for all Qt's built-in signals. New signals can be defined as class attributes using the :func:`~PyQt4.QtCore.pyqtSignal` factory.

.. function:: PyQt4.QtCore.pyqtSignal(types[, name])

  Create one or more overloaded unbound signals as a class attribute.

  :param types:
      the types that define the C++ signature of the signal. Each type may
      be a Python type object or a string that is the name of a C++ type.
      Alternatively each may be a sequence of type arguments. In this case
      each sequence defines the signature of a different signal overload.
      The first overload will be the default.
  :param name:
      the name of the signal. If it is omitted then the name of the class
      attribute is used. This may only be given as a keyword argument.
  :rtype:
      an unbound signal

The following example shows the definition of a number of new signals::

  from PyQt4.QtCore import QObject, pyqtSignal

  class Foo(QObject):

      # This defines a signal called 'closed' that takes no arguments.
      closed = pyqtSignal()

      # This defines a signal called 'rangeChanged' that takes two
      # integer arguments.
      range_changed = pyqtSignal(int, int, name='rangeChanged')

      # This defines a signal called 'valueChanged' that has two overloads,
      # one that takes an integer argument and one that takes a QString
      # argument. Note that because we use a string to specify the type of
      # the QString argument then this code will run under Python v2 and v3.
      valueChanged = pyqtSignal([int], ['QString'])

New signals should only be defined in sub-classes of ``QObject``.

New signals defined in this way will be automatically added to the class's
``QMetaObject``. This means that they will appear in Qt Designer and can be
introspected using the ``QMetaObject`` API.

Overloaded signals should be used with care when an argument has a Python type
that has no corresponding C++ type. PyQt4 uses the same internal C++ class to
represent such objects and so it is possible to have overloaded signals with
different Python signatures that are implemented with identical C++ signatures
with unexpected results. The following is an example of this::

```
class Foo(QObject):

    # This will cause problems because each has the same C++ signature.
    valueChanged = pyqtSignal([dict], [list])
```

Connecting, Disconnecting and Emitting Signals

Signals are connected to slots using the :meth:`connect` method of a bound
signal.

.. method:: connect(slot[, type=PyQt4.QtCore.Qt.AutoConnection])

   Connect a signal to a slot. An exception will be raised if the connection
   failed.

   :param slot:
       the slot to connect to, either a Python callable or another bound
       signal.
   :param type:
       the type of the connection to make.

Signals are disconnected from slots using the :meth:`disconnect` method of a
bound signal.

.. method:: disconnect([slot])

   Disconnect one or more slots from a signal. An exception will be raised if
   the slot is not connected to the signal or if the signal has no connections
   at all.

   :param slot:
       the optional slot to disconnect from, either a Python callable or
       another bound signal. If it is omitted then all slots connected to the
       signal are disconnected.

Signals are emitted from using the :meth:`emit` method of a bound signal.

.. method:: emit(*args)

 Emit a signal.

 :param args:
    the optional sequence of arguments to pass to any connected slots.

The following code demonstrates the definition, connection and emit of a
signal without arguments::

 from PyQt4.QtCore import QObject, pyqtSignal

 class Foo(QObject):

   # Define a new signal called 'trigger' that has no arguments.
   trigger = pyqtSignal()

   def connect_and_emit_trigger(self):
      # Connect the trigger signal to a slot.
      self.trigger.connect(self.handle_trigger)

      # Emit the signal.
      self.trigger.emit()

   def handle_trigger(self):
      # Show that the slot has been called.

      print "trigger signal received"

The following code demonstrates the connection of overloaded signals::

 from PyQt4.QtGui import QComboBox

 class Bar(QComboBox):

   def connect_activated(self):
      # The PyQt4 documentation will define what the default overload is.
      # In this case it is the overload with the single integer argument.
      self.activated.connect(self.handle_int)

      # For non-default overloads we have to specify which we want to
      # connect. In this case the one with the single string argument.
      # (Note that we could also explicitly specify the default if we
      # wanted to.)
      self.activated[str].connect(self.handle_string)

```
def handle_int(self, index):
    print "activated signal passed integer", index

def handle_string(self, text):
    print "activated signal passed QString", text
```

Connecting Signals Using Keyword Arguments

It is also possible to connect signals by passing a slot as a keyword argument
corresponding to the name of the signal when creating an object, or using the
``pyqtConfigure()`` method of ``QObject``. For example the following three
fragments are equivalent::

```
  act = QtGui.QAction("Action", self)
  act.triggered.connect(self.on_triggered)

  act = QtGui.QAction("Action", self, triggered=self.on_triggered)

  act = QtGui.QAction("Action", self)
  act.pyqtConfigure(triggered=self.on_triggered)
```

The :func:`~PyQt4.QtCore.pyqtSlot` Decorator

Although PyQt4 allows any Python callable to be used as a slot when connecting
signals, it is sometimes necessary to explicitly mark a Python method as being
a Qt slot and to provide a C++ signature for it. PyQt4 provides the
:func:`~PyQt4.QtCore.pyqtSlot` function decorator to do this.

.. function:: PyQt4.QtCore.pyqtSlot(types[, name][, result])

  Decorate a Python method to create a Qt slot.

  :param types:
      the types that define the C++ signature of the slot. Each type may be
      a Python type object or a string that is the name of a C++ type.
  :param name:
      the name of the slot that will be seen by C++. If omitted the name of
      the Python method being decorated will be used. This may only be given
      as a keyword argument.
  :param result:
      the type of the result and may be a Python type object or a string that
      specifies a C++ type. This may only be given as a keyword argument.

Connecting a signal to a decorated Python method also has the advantage of

reducing the amount of memory used and is slightly faster.

For example::

```
from PyQt4.QtCore import QObject, pyqtSlot

class Foo(QObject):

    @pyqtSlot()
    def foo(self):
        """ C++: void foo() """

    @pyqtSlot(int, str)
    def foo(self, arg1, arg2):
        """ C++: void foo(int, QString) """

    @pyqtSlot(int, name='bar')
    def foo(self, arg1):
        """ C++: void bar(int) """

    @pyqtSlot(int, result=int)
    def foo(self, arg1):
        """ C++: int foo(int) """

    @pyqtSlot(int, QObject)
    def foo(self, arg1):
        """ C++: int foo(int, QObject *) """
```

It is also possible to chain the decorators in order to define a Python method
several times with different signatures. For example::

```
from PyQt4.QtCore import QObject, pyqtSlot

class Foo(QObject):

    @pyqtSlot(int)
    @pyqtSlot('QString')
    def valueChanged(self, value):
        """ Two slots will be defined in the QMetaObject. """
```

Connecting Slots By Name

PyQt4 supports the ``QtCore.QMetaObject.connectSlotsByName()`` function that
is most commonly used by :program:`pyuic4` generated Python code to
automatically connect signals to slots that conform to a simple naming
convention. However, where a class has overloaded Qt signals (ie. with the

same name but with different arguments) PyQt4 needs additional information in order to automatically connect the correct signal.

For example the ``QtGui.QSpinBox`` class has the following signals::

```
void valueChanged(int i);
void valueChanged(const QString &text);
```

When the value of the spin box changes both of these signals will be emitted. If you have implemented a slot called ``on_spinbox_valueChanged`` (which assumes that you have given the ``QSpinBox`` instance the name ``spinbox``) then it will be connected to both variations of the signal. Therefore, when the user changes the value, your slot will be called twice - once with an integer argument, and once with a unicode or ``QString`` argument.

This also happens with signals that take optional arguments. Qt implements this using multiple signals. For example, ``QtGui.QAbstractButton`` has the following signal::

```
void clicked(bool checked = false);
```

Qt implements this as the following::

```
void clicked();
void clicked(bool checked);
```

The :func:`~PyQt4.QtCore.pyqtSlot` decorator can be used to specify which of the signals should be connected to the slot.

For example, if you were only interested in the integer variant of the signal then your slot definition would look like the following::

```
@pyqtSlot(int)
def on_spinbox_valueChanged(self, i):
    # i will be an integer.
    pass
```

If you wanted to handle both variants of the signal, but with different Python methods, then your slot definitions might look like the following::

```
@pyqtSlot(int, name='on_spinbox_valueChanged')
def spinbox_int_value(self, i):
    # i will be an integer.
    pass

@pyqtSlot(str, name='on_spinbox_valueChanged')
def spinbox_qstring_value(self, s):
    # s will be a Python string object (or a QString if they are enabled).
```

```
    pass
```

The following shows an example using a button when you are not interested in the optional argument::

```
  @pyqtSlot()
  def on_button_clicked(self):
    pass
```

Mixing New-style and Old-style Connections

The implementation of new-style connections is slightly different to the implementation of old-style connections. An application can freely use both styles subject to the restriction that any individual new-style connection should only be disconnected using the new style. Similarly any individual old-style connection should only be disconnected using the old style.

You should also be aware that :program:`pyuic4` generates code that uses old-style connections.

Integrating Python and JavaScript in QtWebKit
===

QtWebKit uses slots to expose class methods implemented in C++ as JavaScript methods that can be called from scripts embedded in HTML. Python class methods that have been decorated behave in exactly the same way.

In the same way, properties created using :func:`~PyQt4.QtCore.pyqtProperty` are also automatically exposed as JavaScript properties.

Things to be Aware Of
=====================

Python Strings, Qt Strings and Unicode

PyQt4 uses the ``QString`` class to represent Unicode strings, and the ``QByteArray`` to represent byte arrays or strings. In Python v3 the corresponding native object types are ``str`` and ``bytes``. In Python v2 the corresponding native object types are ``unicode`` and ``str``.

PyQt4 does its best to automatically convert between objects of the various types. Explicit conversions can be easily made where necessary.

In some cases PyQt4 will not perform automatic conversions where it is necessary to distinguish between different overloaded methods.

For Python v3 the following conversions are done by default.

- If Qt expects a ``char *`` (or a ``const`` version) then PyQt4 will accept a
  ``str`` or ``QString`` that contains only ASCII characters, a ``bytes``, a
  ``QByteArray``, or a Python object that implements the buffer protocol.

- If Qt expects a ``char`` (or a ``const`` version) then PyQt4 will accept the
  same types as for ``char *`` and also require that a single character is
  provided.

- If Qt expects a ``signed char *`` or an ``unsigned char *`` (or a ``const``
  version) then PyQt4 will accept a ``bytes``.

- If Qt expects a ``signed char`` or an ``unsigned char`` (or a ``const``
  version) then PyQt4 will accept a ``bytes`` of length 1.

- If Qt expects a ``QString`` then PyQt4 will accept a ``str``, a ``bytes``
  that contains only ASCII characters, a ``QChar`` or a ``QByteArray``.

- If Qt expects a ``QByteArray`` then PyQt4 will also accept a ``str`` that
  contains only Latin-1 characters, or a ``bytes``.

For Python v2 the following conversions are done by default.

- If Qt expects a ``char *``, ``signed char *`` or an ``unsigned char *`` (or a
  ``const`` version) then PyQt4 will accept a ``unicode`` or ``QString`` that
  contains only ASCII characters, a ``str``, a ``QByteArray``, or a Python
  object that implements the buffer protocol.

- If Qt expects a ``char``, ``signed char`` or an ``unsigned char`` (or a
  ``const`` version) then PyQt4 will accept the same types as for ``char *``,
  ``signed char *`` and ``unsigned char *`` and also require that a single
  character is provided.

- If Qt expects a ``QString`` then PyQt4 will accept a ``unicode``, a ``str``
  that contains only ASCII characters, a ``QChar`` or a ``QByteArray``.

- If Qt expects a ``QByteArray`` then PyQt4 will accept a ``unicode`` that
  contains only Latin-1 characters, or a ``str``.

Note that the different behaviour between Python v2 and v3 is due to v3's
reduced support for the buffer protocol.

Garbage Collection

C++ does not garbage collect unreferenced class instances, whereas Python does.
In the following C++ fragment both colours exist even though the first can no

longer be referenced from within the program::

    col = new QColor();
    col = new QColor();

In the corresponding Python fragment, the first colour is destroyed when the
second is assigned to ``col``::

    col = QtGui.QColor()
    col = QtGui.QColor()

In Python, each colour must be assigned to different names. Typically this is
done within class definitions, so the code fragment would be something like::

    self.col1 = QtGui.QColor()
    self.col2 = QtGui.QColor()

Sometimes a Qt class instance will maintain a pointer to another instance and
will eventually call the destructor of that second instance. The most common
example is that a ``QObject`` (and any of its sub-classes) keeps pointers to
its children and will automatically call their destructors. In these cases,
the corresponding Python object will also keep a reference to the corresponding
child objects.

So, in the following Python fragment, the first ``QLabel`` is not destroyed
when the second is assigned to ``lab`` because the parent ``QWidget`` still has
a reference to it::

    parent = QtGui.QWidget()
    lab = QtGui.QLabel("First label", parent)
    lab = QtGui.QLabel("Second label", parent)

Multiple Inheritance

It is not possible to define a new Python class that sub-classes from more than
one Qt class.

Access to Protected Member Functions

When an instance of a C++ class is not created from Python it is not possible
to access the protected member functions, or emit any signals, of that
instance. Attempts to do so will raise a Python exception. Also, any Python
methods corresponding to the instance's virtual member functions will never be
called.

``None`` and ``NULL``

Throughout PyQt4, the ``None`` value can be specified wherever ``NULL`` is acceptable to the underlying C++ code.

Equally, ``NULL`` is converted to ``None`` whenever it is returned by the underlying C++ code.

Support for ``void *``

PyQt4 (actually SIP) represents ``void *`` values as objects of type ``sip.voidptr``. Such values are often used to pass the addresses of external objects between different Python modules. To make this easier, a Python integer (or anything that Python can convert to an integer) can be used whenever a ``sip.voidptr`` is expected.

A ``sip.voidptr`` may be converted to a Python integer by using the ``int()`` builtin function.

A ``sip.voidptr`` may be converted to a Python string by using its ``asstring()`` method. The ``asstring()`` method takes an optional integer argument which is the length of the data in bytes.

A ``sip.voidptr`` may also be given a size (ie. the size of the block of memory that is pointed to) by calling its ``setsize()`` method. If it has a size then it is also able to support Python's buffer protocol and behaves like a Python ``memoryview`` object so that the block of memory can be treated as a mutable list of bytes. It also means that the Python :mod:`struct` module can be used to unpack and pack binary data structures in memory, memory mapped files or shared memory.

``super`` and PyQt4 Classes

In versions of PyQt4 earlier than v4.5 there were restrictions on the use of ``super`` with PyQt4 classes. These restrictions no longer apply with v4.5 and later.

The PyQt4 Resource System
=========================

PyQt4 supports Qt's resource system. This is a facility for embedding resources such as icons and translation files in an application. This makes

the packaging and distribution of those resources much easier.

A ``.qrc`` resource collection file is an XML file used to specify which
resource files are to be embedded. The application then refers to the resource
files by their original names but preceded by a colon.

For a full description, including the format of the ``.qrc`` files, see the Qt
Resource System in the Qt documentation.

:program:`pyrcc4`

:program:`pyrcc4` is PyQt4's equivalent to Qt's :program:`rcc` utility and is
used in exactly the same way. :program:`pyrcc4` reads the ``.qrc`` file, and
the resource files, and generates a Python module that only needs to be
``import`` ed by the application in order for those resources to be made
available just as if they were the original files.

In addition to the command line options that are common with :program:`rcc`,
the following are also supported:

.. program:: pyrcc4

.. cmdoption:: -py2

   Generate code that will work for all versions of Python v2.x. Although
   this is the default, the option should be specified explicitly in case the
   default is changed in a future version.

.. cmdoption:: -py3

   Generate code that will work for all versions of Python starting with
   Python v2.6.

:program:`pyrcc4` will only be included if your copy of Qt includes the XML
module.
Using PyQt4 from the Python Shell
=================================

PyQt4 installs an input hook (using ``PyOS_InputHook``) that processes events
when an interactive interpreter is waiting for user input. This means that
you can, for example, create widgets from the Python shell prompt, interact
with them, and still being able to enter other Python commands.

For example, if you enter the following in the Python shell::

   >>> from PyQt4 import QtGui

```
>>> a = QtGui.QApplication([])
>>> w = QtGui.QWidget()
>>> w.show()
>>> w.hide()
>>>
```

The widget would be displayed when ``w.show()`` was entered amd hidden as soon
as ``w.hide()`` was entered.

The installation of an input hook can cause problems for certain applications
(particularly those that implement a similar feature using different means).
The :mod:`~PyQt4.QtCore` module contains the
:func:`~PyQt4.QtCore.pyqtRemoveInputHook` and
:func:`~PyQt4.QtCore.pyqtRestoreInputHook` functions that remove and restore
the input hook respectively.
PyQt4 and Python v3
===================

PyQt4 fully supports all versions of Python v3. The default behaviour is
different in some areas to the default behaviour with Python v2. These
incompatible differences were introduced in order to make PyQt4 more Pythonic.
However it is very easy to revert to the default Python v2 behaviour on a class
by class basis if required. (See the section :ref:`ref-incompat-apis`.)

QAbstractSpinBox

The following PyQt4 calls have changed signatures to avoid the need for mutable
strings::

    QAbstractSpinBox.fixup(str input) -> str
    QAbstractSpinBox.validate(str input, int pos) -> QValidator.State, str, int

QChar

The ``QChar`` class is implemented as a mapped type that is automatically
converted to and from a Python string.

QClipboard

The following PyQt4 call has a changed signature to avoid the need for mutable
strings::

QClipboard.text(str subtype, QClipboard.Mode mode=QClipboard.Clipboard) -> str, str

QDate

The ``QDate.__hash__()`` returns a hash of the string representation so that
two objects with the same date will have the same hash.

The default behaviour with Python v2 is to return the object's ``id()`` so that
two objects with the same date will have different hashes.

QDateTime

The ``QDateTime.__hash__()`` method returns a hash of the string representation
so that two objects with the same date and time will have the same hash.

The default behaviour with Python v2 is to return the object's ``id()`` so that
two objects with the same date and time will have different hashes.

QDateTimeEdit

The following PyQt4 calls have changed signatures to avoid the need for mutable
strings::

    QDateTimeEdit.fixup(str input) -> str
    QDateTimeEdit.validate(str input, int pos) -> QValidator.State, str, int

QDoubleSpinBox

The following PyQt4 calls have changed signatures to avoid the need for mutable
strings::

    QDoubleSpinBox.fixup(str input) -> str
    QDoubleSpinBox.validate(str input, int pos) -> QValidator.State, str, int

QDoubleValidator

The following PyQt4 call has a changed signature to avoid the need for mutable
strings::

QDoubleValidator.validate(str input, int pos) -> QValidator.State, str, int

QFileDialog

The following PyQt4 calls have changed signatures to avoid the need for mutable
strings::

   QFileDialog.getOpenFileName(QWidget parent=None, str caption=None, str dir=None, str filter=None,
QFileDialog.Options options=0) -> str
   QFileDialog.getOpenFileNames(QWidget parent=None, str caption=None, str dir=None, str filter=None,
QFileDialog.Options options=0) -> list(str)
   QFileDialog.getSaveFileName(QWidget parent=None, str caption=None, str dir=None, str filter=None,
QFileDialog.Options options=0) -> str

The static methods ``QFileDialog.getOpenFileNameAndFilter()``,
``QFileDialog.getOpenFileNamesAndFilter()`` and
``QFileDialog.getSaveFileNameAndFilter()`` have been added which return a tuple
of the name(s) and the selected filter. These can also be used with Python v2.

QFontMetrics

The methods ``QFontMetrics.widthChar()`` and
``QFontMetrics.boundingRectChar()`` have been added which accept a Python
string of length one and call the C++ ``QFontMetrics::width()`` and
``QFontMetrics::boundingRect()`` methods passing the character as a ``QChar``
(rather than a single character ``QString``).

QFontMetricsF

The methods ``QFontMetricsF.widthChar()`` and
``QFontMetricsF.boundingRectChar()`` have been added which accept a Python
string of length one and call the C++ ``QFontMetricsF::width()`` and
``QFontMetricsF::boundingRect()`` methods passing the character as a ``QChar``
(rather than a single character ``QString``).

QIntValidator

The following PyQt4 call has a changed signature to avoid the need for mutable
strings::

```
QIntValidator.validate(str input, int pos) -> QValidator.State, str, int
```

QLatin1Char

The ``QLatin1Char`` class is not implemented.

QLatin1String

The ``QLatin1String`` class is not implemented.

QPyNullVariant

The ``QPyNullVariant`` class is used to represent a null ``QVariant``. It is
automatically converted to a C++ ``QVariant`` when required.

A null C++ ``QVariant`` is automatically converted to a ``QPyNullVariant``
unless the type of the data in the ``QVariant`` itself supports the concept of
a null value (i.e. it has an ``isNull()`` method). In this case a null C++
``QVariant`` is converted to a null instance of the data type. The exception
to this rule is that a C++ ``QVariant`` containing a null ``QString`` is always
converted to a ``QPyNullVariant``.

QRegExpValidator

The following PyQt4 call has a changed signature to avoid the need for mutable
strings::

```
QRegExpValidator.validate(str input, int pos) -> QValidator.State, str, int
```


QSettings

The ``QSettings.value()`` method takes an optional ``type`` keyword argument
that specifies the type of the value to return. It can either be a Python type
object or a string specifying the name of a C++ type.

Using this argument avoids potential portability problems where the type of a
value may not be as expected because the platform specific backend to

``QSettings`` may not store the necessary type information.

The argument can also be used with Python v2.

QSpinBox

The following PyQt4 calls have changed signatures to avoid the need for mutable
strings::

  QSpinBox.fixup(str input) -> str
  QSpinBox.validate(str input, int pos) -> QValidator.State, str, int

QString

The ``QString`` class is implemented as a mapped type that is automatically
converted to and from a Python string. In addition a ``None`` is converted to
a null ``QString``. However, a null ``QString`` is converted to an empty
Python string (and not ``None``). (This is because Qt often returns a null
``QString`` when it should probably return an empty ``QString``.)

QStringList

The ``QStringList`` class is implemented as a mapped type that is
automatically converted to and from a Python list of strings.

QStringMatcher

The ``QStringMatcher`` class is not implemented.

QStringRef

The ``QStringRef`` class is implemented as a mapped type that is automatically
converted to and from a Python string.

QTextDecoder

The following C++ call is not wrapped because it expects ``QString`` to be
mutable::

  void toUnicode(QString *target, const char *chars, int len)

QTextStream

The C++ functions ``bin()``, ``hex()`` and ``oct()`` are named ``bin_()``,
``hex_()`` and ``oct_()`` respectively in Python. This allows the import
style ``from PyQt4.QtCore import *`` to be used without them clashing with the
Python built-in functions with the same names.

The following C++ calls are not wrapped because they expect ``QString`` to be
mutable::

  QTextStream(QString *string, QIODevice::OpenMode openMode = QIODevice::ReadWrite)
  void setString(QString *string, QIODevice::OpenMode openMode = QIODevice::ReadWrite)
  QString *string()
  QTextStream &operator>>(QChar &c)
  QTextStream &operator>>(QString &s)

QTime

The ``QTime.__hash__()`` returns a hash of the string representation so that
two objects with the same time will have the same hash.

The default behaviour with Python v2 is to return the object's ``id()`` so that
two objects with the same time will have different hashes.

QUrl

The ``QUrl.__hash__()`` method returns a hash of the string representation so
that two objects with the same URL will have the same hash.

The default behaviour with Python v2 is to return the object's ``id()`` so that
two objects with the same URL will have different hashes.

QValidator

The following PyQt4 calls have changed signatures to avoid the need for mutable

strings::

```
QValidator.fixup(str input) -> str
QValidator.validate(str input, int pos) -> QValidator.State, str, int
```

QVariant

The ``QVariant`` class is implemented as a mapped type. Any Python object can
be passed when a ``QVariant`` instance is expected. When Qt returns a
``QVariant`` then it will automatically be converted to the original Python
object or an equivalent.

``None`` is interpreted as an invalid ``QVariant`` and vice versa.

The ``QPyNullVariant`` class is used to represent a null ``QVariant``.

QWebPage

The following PyQt4 call has a changed signature to avoid the need for mutable
strings::

```
QWebPage.javaScriptPrompt(QWebFrame originatingFrame, str msg, str defaultValue) -> bool, str
```

QXmlStreamWriter

The following C++ call is not wrapped because it expects ``QString`` to be
mutable::

```
QXmlStreamWriter(QString *string)
```
Integrating Python and QML
==========================

Qt v4.7 introduced QML as a means of declaratively describing a user interface
and using JavaScript as a scripting language within QML. It is possible to
write complete standalone QML applications, or to combine them with C++.

PyQt4 supports the integration of Python and QML as far as it can - given the
limitations of the QML implementation.

There are three types of QML application:

- *Pure* applications that are written entirely in QML and can be run using the

:program:`qmlviewer` tool provided with Qt. PyQt4 fully supports this type
of application. The examples provided by :program:`qtdemo.py` under the *Qt
Declarative Examples* heading are all of this type.

- QML allows ``QObject`` instances to be used in QML applications. QML code is
  able to call an object's slots and has read and write access to the object's
  properties. QML code can also respond to changes to the value of a property.
  PyQt4 fully supports the use objects created in Python in this way. The
  :program:`minehunt.py` example under the *Demonstrations* heading of
  :program:`qtdemo.py` is an example of this type of application.

- QML also allows ``QObject`` sub-classes to be used in QML applications so
  that new instances are created from QML. PyQt4 does not support this. The
  reason is that QML uses information generated at compile time (specifically
  it uses ``QObject::staticMetaObject``) rather than information created
  dynamically at run time (i.e. ``QObject::metaObject()``). This approach is
  fine for a static language like C++ but causes problems for languages such as
  Python that allow types to created dynamically. This limitation doesn't
  place any restriction on the functionality of a Python/QML application, it
  only places restrictions on how that application is written.

QML can implement JavaScript functions and define signals. PyQt4 allows both
of these to be accessed transparently from Python. The following is a simple
example application that displays the current date and time when the user
clicks on it.

The following is the QML (in the :file:`message.qml`) that defines the user
interface::

```
import Qt 4.7

Rectangle {
    signal messageRequired;

    function updateMessage(text) {
        messageText.text = text
    }

    anchors.fill: parent; color: "black"

    Text {
        id: messageText
        anchors.centerIn: parent; color: "white"
    }

    MouseArea {
        anchors.fill: parent
```

```
        onClicked: messageRequired()
    }
}
```

This defines a signal ``messageRequired`` which is emitted when the user clicks
on the mouse area. It also implements a function ``updateMessage()`` which
updates the message being displayed.

The following is the Python code that implements the application logic::

```
import sys

from PyQt4.QtCore import QDateTime, QObject, QUrl, pyqtSignal
from PyQt4.QtGui import QApplication
from PyQt4.QtDeclarative import QDeclarativeView


# This class will emit the current date and time as a signal when
# requested.
class Now(QObject):

    now = pyqtSignal(str)

    def emit_now(self):
        formatted_date = QDateTime.currentDateTime().toString()
        self.now.emit(formatted_date)


app = QApplication(sys.argv)

now = Now()

# Create the QML user interface.
view = QDeclarativeView()
view.setSource(QUrl('message.qml'))
view.setResizeMode(QDeclarativeView.SizeRootObjectToView)

# Get the root object of the user interface. It defines a
# 'messageRequired' signal and JavaScript 'updateMessage' function. Both
# can be accessed transparently from Python.
rootObject = view.rootObject()

# Provide the current date and time when requested by the user interface.
rootObject.messageRequired.connect(now.emit_now)

# Update the user interface with the current date and time.
now.now.connect(rootObject.updateMessage)
```

```
    # Provide an initial message as a prompt.
    rootObject.updateMessage("Click to get the current date and time")

    # Display the user interface and allow the user to interact with it.
    view.setGeometry(100, 100, 400, 240)
    view.show()

    app.exec_()
```

Hopefully the comments in the code are sufficient explanation. The important
things to note are that the signal and JavaScript function appear as
appropriate attributes of the root object ``QDeclarativeItem`` returned by the
``rootObject()`` method of ``QDeclarativeView`` and can be connected to and
called respectively.
<d!`B[%N(i=Text
Titel[%
SprkN/>
MainWindow
Support for QSettings
====================

.. versionadded:: v4.8.3

Qt provies the ``QSettings`` class as a platform independent API for the
persistent storage and retrieval of application settings. Settings are
retrieved using the ``QSettings.value()`` method which, when using v1 of
PyQt4's ``QVariant`` API returns a ``QVariant`` object. An application will
then typically convert the ``QVariant`` to the appropriate fundamental type
using ``QVariant.toBool()``, ``QVariant.toInt()``.

The explicit use of these conversion methods works around a problem with the
way different platforms implement the storage of settings. Some platforms only
ever store string values which means that the type of the original value is
lost. Explicitly calling a conversion method provides the missing type
information about the value being retrieved.

A problem then arises when v2 of the ``QVariant`` API is used (i.e. the default
for Python v3) because those explicit conversion methods are not available.
Therefore a setting with an integer value of ``42`` may be retrieved as a
string value of ``'42'``. This inconsistency is made worse by being platform
specific.

As a solution to the problem PyQt4's implementation of ``QSettings.value()``
takes an optional third argument called ``type``. This is either a Python type
object, e.g. ``int``, or a string that is the name of a C++ type, e.g.
``'QStringList'``. The value returned will be an object of the requested type.

For example::

```
from PyQt4.QtCore import QSettings, QPoint

settings = QSettings('foo', 'foo')

settings.setValue('int_value', 42)
settings.setValue('point_value', QPoint(10, 12))

# This will write the setting to the platform specific storage.
del settings

settings = QSettings('foo', 'foo')

int_value = settings.value('int_value', type=int)
print("int_value: %s" % repr(int_value))

point_value = settings.value('point_value', type=QPoint)
print("point_value: %s" % repr(point_value))
```

When this is executed then the following will be displayed for all platforms::

```
int_value: 42
point_value: PyQt4.QtCore.QPoint(10, 20)
```

If the value of the setting is a container (corresponding to either
``QVariantList``, ``QVariantMap`` or ``QVariantHash``) then the type is applied
to the contents of the container.

For example::

```
from PyQt4.QtCore import QSettings

settings = QSettings('foo', 'foo')

settings.setValue('list_value', [1, 2, 3])
settings.setValue('dict_value', {'one': 1, 'two': 2})

# This will write the setting to the platform specific storage.
del settings

settings = QSettings('foo', 'foo')

list_value = settings.value('list_value', type=int)
print("list_value: %s" % repr(list_value))

dict_value = settings.value('dict_value', type=int)
print("dict_value: %s" % repr(dict_value))
```

When this is executed then the following will be displayed for all platforms::

    list_value: [1, 2, 3]
    dict_value: {'one': 1, 'two': 2}
.. _ref-dbus:

DBus Support
============

PyQt4 provides two different modules that implement support for DBus. The
:mod:`~PyQt4.QtDBus` module provides wrappers for the standard Qt DBus classes.
The :mod:`dbus.mainloop.qt` module add support for the Qt event loop to the
standard ``dbus-python`` Python module.

:mod:`~PyQt4.QtDBus`

The :mod:`~PyQt4.QtDBus` module is used in a similar way to the C++ library it
wraps. The main difference is in the way it supports the demarshalling of
DBus structures. C++ relies on the template-based registration of types using
``qDBusRegisterMetaType()`` which isn't possible from Python. Instead a slot
that accepts a DBus structure in an argument should specify a slot with a
single :class:`~PyQt4.QtDBus.QDBusMessage` argument. The implementation of the
slot should then extract the arguments from the message using its
:meth:`~PyQt4.QtDBus.QDBusMessage.arguments` method.

For example, say we have a DBus method called ``setColors()`` that has a single
argument that is an array of structures of three integers (red, green and
blue). The DBus signature of the argument would then be ``a(iii)``. In C++
you would typically define a class to hold the red, green and blue values and
so your code would include the following (incomplete) fragments::

    struct Color
    {
        int red;
        int green;
        int blue;
    };
    Q_DECLARE_METATYPE(Color)

    qDBusRegisterMetaType<Color>();

    class ServerAdaptor : public QDBusAbstractAdaptor
    {
        Q_OBJECT

    public slots:

```
    void setColors(QList<const Color &> colors);
  };
```

The Python version is, of course, much simpler::

```
  class ServerAdaptor(QDBusAbstractAdaptor):

    @pyqtSlot(QDBusMessage)
    def setColors(self, message):
        # Get the single argument.
        colors = message.arguments()[0]

        # The argument will be a list of 3-tuples of ints.
        for red, green, blue in colors:
            print("RGB:", red, green, blue)
```

Note that this technique can be used for arguments of any type, it is only
require if DBus structures are involved.

:mod:`dbus.mainloop.qt`

The :mod:`dbus.mainloop.qt` module provides support for the Qt event loop to
``dbus-python``. The module's API is almost identical to that of the
:mod:`dbus.mainloop.glib` modules that provides support for the GLib event
loop.

The :mod:`dbus.mainloop.qt` module contains the following function.

.. function:: DBusQtMainLoop(set_as_default=False)

  Create a ``dbus.mainloop.NativeMainLoop`` object that uses the the Qt event
  loop.

  :param set_as_default:
      is optionally set to make the main loop instance the default for all
      new Connection and Bus instances. It may only be specified as a
      keyword argument, and not as a positional argument.

The following code fragment is all that is normally needed to set up the
standard ``dbus-python`` language bindings package to be used with PyQt4::

  from dbus.mainloop.qt import DBusQtMainLoop

  DBusQtMainLoop(set_as_default=True)
```

Using Qt Designer
=================

Qt Designer is the Qt tool for designing and building graphical user interfaces. It allows you to design widgets, dialogs or complete main windows using on-screen forms and a simple drag-and-drop interface. It has the ability to preview your designs to ensure they work as you intended, and to allow you to prototype them with your users, before you have to write any code.

Qt Designer uses XML ``.ui`` files to store designs and does not generate any code itself. Qt includes the ``uic`` utility that generates the C++ code that creates the user interface. Qt also includes the ``QUiLoader`` class that allows an application to load a ``.ui`` file and to create the corresponding user interface dynamically.

PyQt4 does not wrap the ``QUiLoader`` class but instead includes the :mod:`~PyQt4.uic` Python module. Like ``QUiLoader`` this module can load ``.ui`` files to create a user interface dynamically. Like the :program:`uic` utility it can also generate the Python code that will create the user interface. PyQt4's :program:`pyuic4` utility is a command line interface to the :mod:`~PyQt4.uic` module. Both are described in detail in the following sections.

Using the Generated Code
------------------------

The code that is generated has an identical structure to that generated by Qt's ``uic`` and can be used in the same way.

The code is structured as a single class that is derived from the Python ``object`` type. The name of the class is the name of the toplevel object set in Designer with ``Ui_`` prepended. (In the C++ version the class is defined in the ``Ui`` namespace.) We refer to this class as the *form class*.

The class contains a method called ``setupUi()``. This takes a single argument which is the widget in which the user interface is created. The type of this argument (typically ``QDialog``, ``QWidget`` or ``QMainWindow``) is set in Designer. We refer to this type as the *Qt base class*.

In the following examples we assume that a ``.ui`` file has been created containing a dialog and the name of the ``QDialog`` object is ``ImageDialog``. We also assume that the name of the file containing the generated Python code is :file:`ui_imagedialog.py`. The generated code can then be used in a number of ways.

The first example shows the direct approach where we simply create a simple application to create the dialog::

    import sys

```
from PyQt4.QtGui import QApplication, QDialog
from ui_imagedialog import Ui_ImageDialog

app = QApplication(sys.argv)
window = QDialog()
ui = Ui_ImageDialog()
ui.setupUi(window)

window.show()
sys.exit(app.exec_())
```

The second example shows the single inheritance approach where we sub-class
``QDialog`` and set up the user interface in the ``__init__()`` method::

```
from PyQt4.QtGui import QDialog
from ui_imagedialog import Ui_ImageDialog

class ImageDialog(QDialog):
    def __init__(self):
        QDialog.__init__(self)

        # Set up the user interface from Designer.
        self.ui = Ui_ImageDialog()
        self.ui.setupUi(self)

        # Make some local modifications.
        self.ui.colorDepthCombo.addItem("2 colors (1 bit per pixel)")

        # Connect up the buttons.
        self.ui.okButton.clicked.connect(self.accept)
        self.ui.cancelButton.clicked.connect(self.reject)
```

The third example shows the multiple inheritance approach::

```
from PyQt4.QtGui import QDialog
from ui_imagedialog import Ui_ImageDialog

class ImageDialog(QDialog, Ui_ImageDialog):
    def __init__(self):
        QDialog.__init__(self)

        # Set up the user interface from Designer.
        self.setupUi(self)

        # Make some local modifications.
        self.colorDepthCombo.addItem("2 colors (1 bit per pixel)")

        # Connect up the buttons.
```

```
    self.okButton.clicked.connect(self.accept)
    self.cancelButton.clicked.connect(self.reject)
```

It is also possible to use the same approach used in PyQt v3. This is shown in
the final example::

```
  from ui_imagedialog import ImageDialog

  class MyImageDialog(ImageDialog):
      def __init__(self):
          ImageDialog.__init__(self)

          # Make some local modifications.
          self.colorDepthCombo.addItem("2 colors (1 bit per pixel)")

          # Connect up the buttons.
          self.okButton.clicked.connect(self.accept)
          self.cancelButton.clicked.connect(self.reject)
```

For a full description see the Qt Designer Manual in the Qt Documentation.

The :mod:`~PyQt4.uic` Module

The :mod:`~PyQt4.uic` module contains the following functions and objects.

.. module:: PyQt4.uic

.. data:: widgetPluginPath

  The list of the directories that are searched for widget plugins.
  Initially it contains the name of the directory that contains the widget
  plugins included with PyQt4.

.. function:: compileUi(uifile, pyfile[, execute=False[, indent=4[, pyqt3_wrapper=False[, from_imports=False[,
resource_suffix='_rc']]]]])

  Generate a Python module that will create a user interface from a Qt
  Designer ``.ui`` file.

  :param uifile:
      the file name or file-like object containing the ``.ui`` file.
  :param pyfile:
      the file-like object to which the generated Python code will be written
      to.
  :param execute:
      is optionally set if a small amount of additional code is to be
```

generated that will display the user interface if the code is run as a
standalone application.

:param indent:
　　the optional number of spaces used for indentation in the generated
　　code. If it is zero then a tab character is used instead.

:param pyqt3_wrapper:
　　is optionally set if a small wrapper is to be generated that allows the
　　generated code to be used as it is by PyQt v3 applications.

:param from_imports:
　　is optionally set to generate import statements that are relative to
　　``'.'``. At the moment this only applies to the import of resource
　　modules.

:resource_suffix:
　　is the suffix appended to the basename of any resource file specified
　　in the ``.ui`` file to create the name of the Python module generated
　　from the resource file by ``pyrcc4``. The default is ``'_rc'``, i.e.
　　if the ``.ui`` file specified a resource file called ``foo.qrc`` then
　　the corresponding Python module is ``foo_rc``.

.. function:: compileUiDir(dir[, recurse=False[, map=None[, **compileUi_args]]])

Create Python modules from Qt Designer ``.ui`` files in a directory or
directory tree.

:param dir:
　　the name of the directory to scan for files whose name ends with
　　``.ui``. By default the generated Python module is created in the same
　　directory ending with ``.py``.

:param recurse:
　　is optionally set if any sub-directories should be scanned.

:param map:
　　an optional callable that is passed the name of the directory
　　containing the ``.ui`` file and the name of the Python module that will
　　be created. The callable should return a tuple of the name of the
　　directory in which the Python module will be created and the (possibly
　　modified) name of the module.

:param compileUi_args:
　　are any additional keyword arguments that are passed to
　　:func:`~PyQt4.uic.compileUi` that is called to create each Python
　　module.

.. function:: loadUiType(uifile[, from_imports=False[, resource_suffix='_rc']])

Load a Qt Designer ``.ui`` file and return a tuple of the generated
form class and the *Qt base class*. These can then be used to
create any number of instances of the user interface without having to
parse the ``.ui`` file more than once.

:param uifile:
    the file name or file-like object containing the ``.ui`` file.
:param from_imports:
    is optionally set to use import statements that are relative to
    ``'.'``. At the moment this only applies to the import of resource
    modules.
:resource_suffix:
    is the suffix appended to the basename of any resource file specified
    in the ``.ui`` file to create the name of the Python module generated
    from the resource file by ``pyrcc4``. The default is ``'_rc'``, i.e.
    if the ``.ui`` file specified a resource file called ``foo.qrc`` then
    the corresponding Python module is ``foo_rc``.
:rtype:
    the *form class* and the *Qt base class*.

.. function:: loadUi(uifile[, baseinstance=None[, package=''[, resource_suffix='_rc']]])

    Load a Qt Designer ``.ui`` file and returns an instance of the user
    interface.

    :param uifile:
        the file name or file-like object containing the ``.ui`` file.
    :param baseinstance:
        the optional instance of the *Qt base class*. If specified then the
        user interface is created in it. Otherwise a new instance of the base
        class is automatically created.
    :param package:
        the optional package that is the base package for any relative imports
        of custom widgets.
    :resource_suffix:
        is the suffix appended to the basename of any resource file specified
        in the ``.ui`` file to create the name of the Python module generated
        from the resource file by ``pyrcc4``. The default is ``'_rc'``, i.e.
        if the ``.ui`` file specified a resource file called ``foo.qrc`` then
        the corresponding Python module is ``foo_rc``.
    :rtype:
        the ``QWidget`` sub-class that implements the user interface.

:program:`pyuic4`

The :program:`pyuic4` utility is a command line interface to the
:mod:`~PyQt4.uic` module. The command has the following syntax::

  pyuic4 [options] .ui-file

The full set of command line options is:

.. program:: pyuic4

.. cmdoption:: -h, --help

  A help message is written to ``stdout``.

.. cmdoption:: --version

  The version number is written to ``stdout``.

.. cmdoption:: -i <N>, --indent <N>

  The Python code is generated using an indentation of ``<N>`` spaces. If
  ``<N>`` is 0 then a tab is used. The default is 4.

.. cmdoption:: -o <FILE>, --output <FILE>

  The Python code generated is written to the file ``<FILE>``.

.. cmdoption:: -p, --preview

  The GUI is created dynamically and displayed. No Python code is generated.

.. cmdoption:: -w, --pyqt3-wrapper

  The generated Python code includes a small wrapper that allows the GUI to
  be used in the same way as it is used in PyQt v3.

.. cmdoption:: -x, --execute

  The generated Python code includes a small amount of additional code that
  creates and displays the GUI when it is executes as a standalone
  application.

.. cmdoption:: --from-imports

  Resource modules are imported using ``from . import`` rather than a simple
  ``import``.

.. cmdoption:: --resource-suffix <SUFFIX>

  The suffix ``<SUFFIX>`` is appended to the basename of any resource file
  specified in the ``.ui`` file to create the name of the Python module
  generated from the resource file by :program:`pyrcc4`. The default is
  ``_rc``. For example if the ``.ui`` file specified a resource file called
  ``foo.qrc`` then the corresponding Python module is ``foo_rc``.

Note that code generated by :program:`pyuic4` is not guaranteed to be
compatible with earlier versions of PyQt4. However, it is guaranteed to be
compatible with later versions. If you have no control over the version of
PyQt4 the users of your application are using then you should run
:program:`pyuic4`, or call :func:`~PyQt4.uic.compileUi()`, as part of your
installation process. Another alternative would be to distribute the ``.ui``
files (perhaps as part of a resource file) and have your application load them
dynamically.

.. _ref-designer-plugins:

Writing Qt Designer Plugins

Qt Designer can be extended by writing plugins. Normally this is done using
C++ but PyQt4 also allows you to write plugins in Python. Most of the time a
plugin is used to expose a custom widget to Designer so that it appears in
Designer's widget box just like any other widget. It is possibe to change the
widget's properties and to connect its signals and slots.

It is also possible to add new functionality to Designer. See the Qt
documentation for the full details. Here we will concentrate on describing
how to write custom widgets in Python.

The process of integrating Python custom widgets with Designer is very similar
to that used with widget written using C++. However, there are particular
issues that have to be addressed.

- Designer needs to have a C++ plugin that conforms to the interface defined by
  the ``QDesignerCustomWidgetInterface`` class. (If the plugin exposes more
  than one custom widget then it must conform to the interface defined by the
  ``QDesignerCustomWidgetCollectionInterface`` class.) In addition the plugin
  class must sub-class ``QObject`` as well as the interface class. PyQt4 does
  not allow Python classes to be sub-classed from more than one Qt class.

- Designer can only connect Qt signals and slots. It has no understanding of
  Python signals or callables.

- Designer can only edit Qt properties that represent C++ types. It has no
  understanding of Python attributes or Python types.

PyQt4 provides the following components and features to resolve these issues as
simply as possible.

- PyQt4's QtDesigner module includes additional classes (all of which have a
  ``QPy`` prefix) that are already sub-classed from the necessary Qt classes.
  This avoids the need to sub-class from more than one Qt class in Python. For

example, where a C++ custom widget plugin would sub-class from ``QObject``
and ``QDesignerCustomWidgetInterface``, a Python custom widget plugin would
instead sub-class from ``QPyDesignerCustomWidgetPlugin``.

- PyQt4 installs a C++ plugin in Designer's plugin directory. It conforms to
  the interface defined by the ``QDesignerCustomWidgetCollectionInterface``
  class. It searches a configurable set of directories looking for Python
  plugins that implement a class sub-classed from
  ``QPyDesignerCustomWidgetPlugin``. Each class that is found is instantiated
  and the instance created is added to the custom widget collection.

  The :envvar:`PYQTDESIGNERPATH` environment variable specifies the set of
  directories to search for plugins. Directory names are separated by a path
  separator (a semi-colon on Windows and a colon on other platforms). If a
  directory name is empty (ie. there are consecutive path separators or a
  leading or trailing path separator) then a set of default directories is
  automatically inserted at that point. The default directories are the
  :file:`python` subdirectory of each directory that Designer searches for its
  own plugins. If the environment variable is not set then only the default
  directories are searched. If a file's basename does not end with ``plugin``
  then it is ignored.

- A Python custom widget may define new Qt signals using
  :func:`~PyQt4.QtCore.pyqtSignal`.

- A Python method may be defined as a new Qt slot by using the
  :func:`~PyQt4.QtCore.pyqtSlot` decorator.

- A new Qt property may be defined using the :func:`~PyQt4.QtCore.pyqtProperty`
  function.

Note that the ability to define new Qt signals, slots and properties from
Python is potentially useful to plugins conforming to any plugin interface and
not just that used by Designer.

For a simple but complete and fully documented example of a custom widget that
defines new Qt signals, slots and properties, and its plugin, look in the
:file:`examples/designer/plugins` directory of the PyQt4 source package. The
:file:`widgets` subdirectory contains the :file:`pydemo.py` custom widget and
the :file:`python` subdirectory contains its :file:`pydemoplugin.py` plugin.
Python Objects and QVariant
===========================

Qt uses the ``QVariant`` class as a wrapper for any C++ data type. PyQt4
allows any Python object to be wrapped as a ``QVariant`` and passed around Qt's
meta-object system like any other type.

PyQt4 will try to convert the Python object to a C++ equivalent if it can so

that the ``QVariant`` can be passed to other C++ code that doesn't know what a
Python object is.

Version 2 of PyQt4's ``QVariant`` API will automatically convert a ``QVariant``
back to a Python object of the correct type.

Version 1 of the ``QVariant`` API provides the ``QVariant.toPyObject()`` method
to convert the ``QVariant`` back to a Python object of the correct type.

Both versions will raise a Python exception if the conversion cannot be done.
Support for Qt Properties
=========================

PyQt4 does not support the setting and getting of Qt properties as if they were
normal instance attributes. This is because the name of a property often
conflicts with the name of the property's getter method.

However, PyQt4 does support the initial setting of properties using keyword
arguments passed when an instance is created. For example::

  act = QtGui.QAction("&Save", self, shortcut=QtGui.QKeySequence.Save,
      statusTip="Save the document to disk", triggered=self.save)

The example also demonstrates the use of a keyword argument to connect a
signal to a slot.

PyQt4 also supports setting the values of properties (and connecting a signal
to a slot) using the ``pyqtConfigure()`` method of ``QObject``. For example,
the following gives the same results as above::

  act = QtGui.QAction("&Save", self)
  act.pyqtConfigure(shortcut=QtGui.QKeySequence.Save,
      statusTip="Save the document to disk", triggered=self.save)

Defining New Qt Properties

A new Qt property may be defined using the :func:`~PyQt4.QtCore.pyqtProperty`
function. It is used in the same way as the standard Python ``property()``
function. In fact, Qt properties defined in this way also behave as Python
properties.

.. function:: PyQt4.QtCore.pyqtProperty(type[, fget=None[, fset=None[, freset=None[, fdel=None[, doc=None[,
designable=True[, scriptable=True[, stored=True[, user=False[, constant=False[, final=False[,
notify=None]]]]]]]]]]]])

   Create a property that behaves as both a Python property and a Qt property.

:param type:
    the type of the property. It is either a Python type object or a
    string that is the name of a C++ type.
:param fget:
    the optional callable used to get the value of the property.
:param fset:
    the optional callable used to set the value of the property.
:param freset:
    the optional callable used to reset the value of the property to its
    default value. It is ignored by Python
:param fdel:
    the optional callable used to delete the property. It is ignored by
    Qt.
:param doc:
    the optional docstring of the property. It is ignored by Qt.
:param designable:
    optionally sets the Qt ``DESIGNABLE`` flag. It is ignored by Python
:param scriptable:
    optionally sets the Qt ``SCRIPTABLE`` flag. It is ignored by Python
:param stored:
    optionally sets the Qt ``STORED`` flag. It is ignored by Python
:param user:
    optionally sets the Qt ``USER`` flag. It is ignored by Python
:param constant:
    optionally sets the Qt ``CONSTANT`` flag. It is ignored by Python
:param final:
    optionally sets the Qt ``FINAL`` flag. It is ignored by Python
:param notify:
    the optional unbound notify signal. It is ignored by Python
:rtype:
    the property object.

It is also possible to use :func:`~PyQt4.QtCore.pyqtProperty` as a decorator in
the same way as the standard Python ``property()`` function. The following
example shows how to define an ``int`` property with a getter and setter::

```
from PyQt4.QtCore import QObject, pyqtProperty

class Foo(QObject):

    def __init__(self):
        QObject.__init__(self)

        self._total = 0

    @pyqtProperty(int)
    def total(self):
```

```
        return self._total

    @total.setter
    def total(self, value):
        self._total = value
```

If you prefer the Qt terminology you may also use ``write`` instead of
``setter`` (and ``read`` instead of ``getter``).
Old-style Signal and Slot Support
=================================

This section describes the older style for connecting signals and slots. It
uses the same API that a C++ application would use. This has a number of
advantages.

- It is well understood and documented.

- Any future changes to the C++ API should be easily included.

It also has a number of disadvantages.

- It requires knowledge of the C++ types of signal arguments.

- It is error prone in that if you mis-type the signal name or signature then
 no exception is raised, either when the signal is connected or emitted.

- It is verbose.

- It is not Pythonic.

This older style of connecting signals and slots will continue to be supported
throughout the life of PyQt4.

PyQt4 Signals and Qt Signals

Qt signals are statically defined as part of a C++ class. They are referenced
using the ``QtCore.SIGNAL()`` function. This method takes a single string
argument that is the name of the signal and its C++ signature. For example::

  QtCore.SIGNAL('finished(int)')

The returned value is normally passed to the ``QtCore.QObject.connect()``
method.

PyQt4 allows new signals to be defined dynamically. The act of emitting a
PyQt4 signal implicitly defines it. PyQt4 signals are also referenced using

the ``QtCore.SIGNAL()`` function.

The ``PyQt_PyObject`` Signal Argument Type

It is possible to pass any Python object as a signal argument by specifying
``PyQt_PyObject`` as the type of the argument in the signature. For example::

  QtCore.SIGNAL('finished(PyQt_PyObject)')

While this would normally be used for passing objects like lists and
dictionaries as signal arguments, it can be used for any Python type. Its
advantage when passing, for example, an integer is that the normal conversions
from a Python object to a C++ integer and back again are not required.

The reference count of the object being passed is maintained automatically.
There is no need for the emitter of a signal to keep a reference to the object
after the call to ``QtCore.QObject.emit()``, even if a connection is queued.

Short-circuit Signals

There is also a special form of a PyQt4 signal known as a short-circuit signal.
Short-circut signals implicitly declare each argument as being of type
``PyQt_PyObject``.

Short-circuit signals do not have a list of arguments or the surrounding
parentheses.

Short-circuit signals may only be connected to slots that have been implemented
in Python. They cannot be connected to Qt slots or the Python callables that
wrap Qt slots.

PyQt4 Slots and Qt Slots

Qt slots are statically defined as part of a C++ class. They are referenced
using the ``QtCore.SLOT()`` function. This method takes a single string
argument that is the name of the slot and its C++ signature. For example::

  QtCore.SLOT('done(int)')

The returned value is normally passed to the ``QtCore.QObject.connect()``
method.

PyQt4 allows any Python callable to be used as a slot, not just Qt slots. This is done by simply referencing the callable. Because Qt slots are implemented as class methods they are also available as Python callables. Therefore it is not usually necessary to use ``QtCore.SLOT()`` for Qt slots. However, doing so is more efficient as it avoids a conversion to Python and back to C++.

Qt allows a signal to be connected to a slot that requires fewer arguments than the signal passes. The extra arguments are quietly discarded. PyQt4 slots can be used in the same way.

Note that when a slot is a Python callable its reference count is not increased. This means that a class instance can be deleted without having to explicitly disconnect any signals connected to its methods. However, if a slot is a lambda function or a partial function then its reference count is automatically incremented to prevent it from being immediately garbage collected.

Connecting Signals and Slots

Connections between signals and slots (and other signals) are made using the ``QtCore.QObject.connect()`` method. For example::

  QtCore.QObject.connect(a, QtCore.SIGNAL('QtSig()'), pyFunction)
  QtCore.QObject.connect(a, QtCore.SIGNAL('QtSig()'), pyClass.pyMethod)
  QtCore.QObject.connect(a, QtCore.SIGNAL('QtSig()'), b, QtCore.SLOT('QtSlot()'))
  QtCore.QObject.connect(a, QtCore.SIGNAL('PySig()'), b, QtCore.SLOT('QtSlot()'))
  QtCore.QObject.connect(a, QtCore.SIGNAL('PySig'), pyFunction)

Disconnecting signals works in exactly the same way using the ``QtCore.QObject.disconnect()`` method. However, not all the variations of that method are supported by PyQt4. Signals must be disconnected one at a time.

Emitting Signals

Any instance of a class that is derived from the ``QtCore.QObject`` class can emit a signal using its ``emit()`` method. This takes a minimum of one argument which is the signal. Any other arguments are passed to the connected slots as the signal arguments. For example::

  a.emit(QtCore.SIGNAL('clicked()'))
  a.emit(QtCore.SIGNAL('pySig'), "Hello", "World")

The ``QtCore.pyqtSignature()`` Decorator

The ``QtCore.pyqtSignature()`` serves the same purpose as the
:func:`~PyQt4.QtCore.pyqtSlot` decorator but has a less Pythonic API.
.. _ref-build-system:

The PyQt4 Build System
======================

.. versionadded:: 4.10

SIP v5 will not include an extensible build system, i.e it will not provide an
equivalent of SIP v4's :mod:`sipconfig` module. Consequently a version of PyQt
built with SIP v5 will not provide an equivalent of the
:mod:`~PyQt4.pyqtconfig` module. However there is still a need for certain
information to be shared between PyQt and other modules (such as QScintilla's
:mod:`~PyQt4.Qsci` module) that are built on top of it. Specifically it is
important that the same ``-t`` and ``-x`` command line flags are passed to the
``sip`` executable to create, for example, the QScintilla bindings as were
passed to create the PyQt bindings.

Starting with v4.10, :attr:`PyQt4.QtCore.PYQT_CONFIGURATION` is a dict that
describes how PyQt was configured. At the moment it contains a single value
called ``sip_flags`` which is a string containing the appropriate ``-t`` and
``-x`` flags.

The Old Build System

.. deprecated:: 4.10

The old PyQt4 build system is an extension of the SIP v4 build system and is
implemented by the :mod:`~PyQt4.pyqtconfig` module. It can be used by
configuration scripts of other bindings that build on top of PyQt4 and takes
care of the details of the Qt installation.

Note that the :mod:`~PyQt4.pyqtconfig` module is only created if you use
:program:`configure.py` and not if you use :program:`configure-ng.py`.

.. module:: PyQt4.pyqtconfig

.. class:: Configuration(sub_cfg=None)

   This class encapsulates configuration values that can be accessed as
   instance objects. It is derived from :class:`sipconfig.Configuration`.

:param sub_cfg:
    an optional list of sub-class configurations. It should only be used
    by the ``__init__()`` method of a sub-class to append its own
    dictionary of configuration values before passing the list to its
    super-class.

.. attribute:: pyqt_bin_dir

    The name of the directory where the PyQt4 utilities are installed.

.. attribute:: pyqt_config_args

    The command line passed to :program:`configure.py` when PyQt4 was
    configured.

.. attribute:: pyqt_mod_dir

    The name of the directory where the :mod:`PyQt4` Python package is
    installed.

.. attribute:: pyqt_modules

    A space separated string of installed PyQt4 modules. The :mod:`Qt`
    module is not included.

.. attribute:: pyqt_sip_dir

    The name of the base directory where PyQt4's ``.sip`` files are
    installed. Each module's ``.sip`` files are installed in a
    sub-directory with the same name as the module.

.. attribute:: pyqt_sip_flags

    A space separated string of the :program:`sip` command line options
    used to build the PyQt4 modules. These should also be used when
    building bindings that ``%Import`` any PyQt4 modules.

.. attribute:: pyqt_version

    The PyQt4 version as a 3 part hexadecimal number (e.g. v4.0.1 is
    represented as ``0x040001``).

.. attribute:: pyqt_version_str

    The PyQt4 version as a string. For development snapshots it will start
    with ``snapshot-``.

.. attribute:: qt_data_dir

The value of ``QLibraryInfo::location(DataPath)`` for the Qt
installation.

.. attribute:: qt_archdata_dir

When building against Qt v5 this is the value of
``QLibraryInfo::location(ArchDataPath)``. When building against Qt v4
it is the value of ``QLibraryInfo::location(DataPath)``.

.. attribute:: qt_dir

The root directory of the Qt installation (normally the directory that
contains the :file:`bin` directory).

.. attribute:: qt_edition

The Qt edition.

.. attribute:: qt_framework

Set if Qt is built as a MacOS/X framework.

.. attribute:: qt_inc_dir

The value of ``QLibraryInfo::location(HeadersPath)`` for the Qt
installation.

.. attribute:: qt_lib_dir

The value of ``QLibraryInfo::location(LibrariesPath)`` for the Qt
installation.

.. attribute:: qt_threaded

Set if Qt is built with thread support (always set for PyQt4).

.. attribute:: qt_version

The Qt version as a 3 part hexadecimal number (e.g. v4.1.2 is
represented as ``0x040102``).

.. attribute:: qt_winconfig

Additional Windows specific configuration.

.. class:: QtAssistantModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtAssistant`
module.

.. class:: QAxContainerModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QAxContainer`
module.

.. class:: QtCoreModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtCore` module.

.. class:: QtDBusModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtDBus` module.

.. class:: QtDeclarativeModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtDeclarative`
module.

.. class:: QtDesignerModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtDesigner`
module.

.. class:: QtGuiModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtGui` module.

.. class:: QtHelpModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python

extension module that is built on the PyQt4 :mod:`~PyQt4.QtHelp` module.

.. class:: QtMultimediaModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtMultimedia`
module.

.. class:: QtNetworkModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtNetwork` module.

.. class:: QtOpenGLModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtOpenGL` module.

.. class:: QtScriptModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtScript` module.

.. class:: QtScriptToolsModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtScriptTools`
module.

.. class:: QtSqlModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtSql` module.

.. class:: QtSvgModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtSvg` module.

.. class:: QtTestModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtTest` module.

.. class:: QtWebKitModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtWebKit` module.

.. class:: QtXmlModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtXml` module.

.. class:: QtXmlPatternsModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.QtXmlPatterns`
module.

.. class:: phononModuleMakefile

This class encapsulates a Makefile to build a SIP generated Python
extension module that is built on the PyQt4 :mod:`~PyQt4.phonon` module.
PyQt4 Reference Guide
=====================

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Support for Python's Buffer Interface

===================================

If SIP v4.7.5 or later is used then any Python object that supports the buffer
interface can be used whenever a ``char`` or ``char *`` is expected. If the
buffer has multiple segments then all but the first will be ignored.

Support for Pickling

====================

The following PyQt4 classes may be pickled.

- QByteArray
- QChar
- QColor
- QDate
- QDateTime
- QKeySequence
- QLatin1Char
- QLatin1String
- QLine
- QLineF
- QMatrix
- QPoint
- QPointF
- QPolygon
- QRect
- QRectF
- QSize
- QSizeF
- QString
- QTime

Also all named enums (``QtCore.Qt.Key`` for example) may be pickled.

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MainWindow

Potential Incompatibilities with Earlier Versions
===

PyQt4 v4.9.2

QPyNullVariant
****

In previous versions a ``QPyNullVariant`` would always evaluate to ``True``
when converted to a bool.

In this version a ``QPyNullVariant`` will always evaluate to ``False`` when
converted to a bool. This makes it behave like ``None`` in these
circumstances.

PyQt4 v4.8.3

SQL Models
****

In previous versions, when using v2 of the QVariant API (the default for Python
v3), there was no way to represent a null ``QVariant``. Therefore when reading
values of certain types from an SQL model it was impossible to distinguish
between, for example, a null integer and an integer with the value zero.

In this version the ``QPyNullVariant`` class is used to represent a null
QVariant. Therefore the object read from an SQL model may now be a
``QPyNullVariant`` instance.

A null ``QVariant`` is only converted to a ``QPyNullVariant`` if the underlying
C++ type of the ``QVariant`` cannot be tested for null, i.e. it does not
implement an ``isNull()`` method. This ensures that existing code that uses
non-SQL models will continue to work unchanged.

PyQt4 v4.8

QVariantList
****

In previous versions PyQt4 would always try and convert a Python list to a
``QVariantList``. In this version PyQt4 will first try to convert it to a
``QVariant`` containing a ``QList<QObject *>``, but only if
``QList<QObject *>`` has been registered with Qt as a meta-type.

Normally it is only the :mod:`~PyQt4.QtDeclarative` module that registers this meta-type and so the behaviour of existing applications should be unchanged. It is possible however that you might observe different conversion behaviour after importing the :mod:`~PyQt4.QtDeclarative` module.

PyQt4 v4.7.4

:func:`~PyQt4.QtCore.pyqtSignal` with dict and list
****

In previous versions a Qt signal defined using :func:`~PyQt4.QtCore.pyqtSignal` that had an argument specified as a dict then, when emitting a value, PyQt4 would try and convert the value to a ``QVariantMap`` if possible. If it wasn't possible, normally because the dict had non-string keys, then the value would be left as a dict object.

In this version PyQt4 will not attempt to convert the value to a ``QVariantMap`` and will always leave it as a dict object. If you want the value to be converted to a ``QVariantMap`` then define the signal argument as ``'QVariantMap'``.

The same applies to conversions between lists and ``QVariantList``.

PyQt4 v4.7.1

QVariant
****

This version introduces a slight incompatibility in the conversion between sub-classes of standard Python types and ``QVariant``.

Take, for example, the following code::

  from PyQt4.QtCore import QVariant

  class MyFloat(float):
      pass

  myfloat = MyFloat(5.0)
  variant = QVariant(myfloat)

With this version of PyQt4 ``myfloat`` will be converted in such a way as to preserve any additional attributes (including methods) and will not be

converted to a C++ ``double``. In other words, the following assertions are true::

```
assert(variant.type() != QVariant.Double)
assert(variant.toPyObject() is myfloat)
```

Prior to this version ``myfloat`` would be converted to a C++ ``double``. In other words, the following assertions would be true::

```
assert(variant.type() == QVariant.Double)
assert(variant.toPyObject() == myfloat)
assert(type(variant.toPyObject()) is float)
```

The same change also affects objects that implement the sequence protocol. Prior to this version such an object would be converted to a ``QVariantList`` which would mean that it was converted back to a Python ``list`` rather than to the original type.

PyQt4 v4.5

QVariant
****

This version introduces a slight incompatibility in the conversion between Python sub-classes of certain Qt classes and ``QVariant``. The Qt classes affected are those that ``QVariant`` has explicit support for, e.g. ``QSize``, ``QBitmap``.

Take, for example, the following code::

```
from PyQt4.QtCore import QSize, QVariant

class MySize(QSize):
    pass

mysize = MySize(5, 5)
variant = QVariant(mysize)
```

With this version of PyQt4 ``mysize`` will be converted in such a way as to preserve any additional attributes (including methods) and will not be converted to a C++ ``QSize`` instance. In other words, the following assertions are true::

```
assert(variant.type() != QVariant.Size)
assert(variant.toPyObject() is mysize)
```

Prior to this version ``mysize`` would be converted to a C++ ``QSize``
instance. In other words, the following assertions would be true::

    assert(variant.type() == QVariant.Size)
    assert(variant.toPyObject() == mysize)
    assert(type(variant.toPyObject()) is QSize)

It is hoped that this change of behaviour will not have a significant impact.
However if you need the old behaviour then simply create a copy of your
sub-class instance using the base class constructor as shown below::

    variant = QVariant(QSize(mysize))

A similar issue also affects the conversion of the Python ``datetime``,
``date`` and ``time`` types to ``QVariant``. These are no longer converted to
the corresponding ``QDateTime``, ``QDate`` and ``QTime`` classes. The values
can be retrieved using ``QVariant.toPyObject()``. Again, the old behaviour can
be achieved using an explicit conversion to the Qt class before converting to
``QVariant``.

A further incompatible change is the handling of Python sub-classes of
``QObject``. In previous versions ``QVariant.userType()`` would return an
internal type and an extra reference would be kept to the Python object. In
the current version ``QVariant.userType()`` will correctly return
``QMetaType.QObjectStar`` (or ``QMetaType.QWidgetStar``) but an extra
reference to the Python object is not kept. To avoid a potential crash you
should ensure that you keep a separate reference to the Python object, either
explicitly or implicitly by giving it a parent.

:program:`pyrcc4` Support for Python v3
****

:program:`pyrcc4` will now generate code for Python v3 when the new
:option:`-py3 <pyrcc4 -py3>` command line option is used. The generated code
will also work with Python v2.6 and later.

By default :program:`pyrcc4` will generate code for all Python v2 versions but
you should use the new :option:`-py2 <pyrcc4 -py2>` command line option to
enforce this in case the default is changed in the future.
Installing PyQt4
================

Downloading SIP

SIP must be installed before building and using PyQt4. You can get the latest
release of the SIP source code from

http://www.riverbankcomputing.com/software/sip/download.

The SIP documentation can be found at http://pyqt.sourceforge.net/Docs/sip4/.

Downloading PyQt4

You can get the latest release of the GPL version of the PyQt4 source code from
http://www.riverbankcomputing.com/software/pyqt/download.

If you are using the commercial version of PyQt4 then you should use the
download instructions which were sent to you when you made your purchase. You
must also download your license file.

Configuring PyQt4

After unpacking the source package (either a ``.tar.gz`` or a ``.zip`` file
depending on your platform) you should then check for any :file:`README` files
that relate to your platform.

If you are using the commercial version of PyQt4 then you must copy your
license file to the :file:`sip` directory.

You need to make sure your environment variables are set properly for your
development environment.

In order to configure the build of PyQt4 you need to run either the
:program:`configure-ng.py` or the :program:`configure.py` script.

:program:`configure.py` is the original configuration script that uses the
build system of SIP v4 (i.e. the :mod:`sip.sipconfig` module). It will be
supported for the life of PyQt4.

:program:`configure-ng.py` is the new configuration script that uses Qt's
:program:`qmake` program to do all the heavy lifting. It has the following
advantages:

- a future version will support cross-compilation

- it is the basis of PyQt5's configuration script

- generated Makefiles have an uninstall target

- it will work with SIP v5 (which will have no build system).

Users are encouraged to switch to using :program:`configure-ng.py` in order to ease the future transition to SIP v5 and/or PyQt5.

Using :program:`configure-ng.py`
....

.. versionadded:: 4.10.1

The :program:`configure-ng.py` script is used to configure PyQt4 as follows::

   python configure-ng.py

This assumes that the Python interpreter is on your path. Something like the following may be appropriate on Windows::

   c:\python33\python configure-ng.py

If you have multiple versions of Python installed then make sure you use the interpreter for which you wish to build PyQt4 for.

The full set of command line options is:

.. program:: configure-ng.py

.. cmdoption:: --assume-shared

   Normally Qt is checked to see if it has been built as shared libraries. Some Linux distributions configure their Qt builds to make this check unreliable. This option ignores the result of the check and assumes that Qt has been built as shared libraries.

.. cmdoption:: --bindir <DIR>, -b <DIR>

   The :program:`pyuic4`, :program:`pyrcc4` and :program:`pylupdate4` utilities will be installed in the directory ``<DIR>``.

.. cmdoption:: --concatenate, -c

   The C++ source files for a Python module will be concatenated. This results in significantly reduced compilation times. Most, but not all, C++ compilers can handle the large files that result. See also the :option:`--concatenate-split` option.

.. cmdoption:: --concatenate-split <N>, -j <N>

   If the :option:`--concatenate` option is used to concatenate the C++ source files then this option determines how many files are created. The default

is 1.

.. cmdoption:: --configuration <FILE>

    ``<FILE>`` contains the configuration of the PyQt4 build to be used instead
    of dynamically introspecting the system and is used when cross-compiling.
    The format of ``<FILE>`` will be documented in a later version when
    cross-compilation is fully supported.

.. cmdoption:: --confirm-license

    Using this confirms that you accept the terms of the PyQt4 license.

.. cmdoption:: --consolidate, -g

    Normally each PyQt4 module (except for the :mod:`~PyQt4.Qt` module) is
    linked against the corresponding Qt library. This option creates a module
    called :mod:`~PyQt4._qt` which is linked against all the required Qt
    libraries and the other modules are stub modules that populate their module
    dictionaries from this one. This is useful when linking against static Qt
    libraries to eliminate the need to distribute the Qt libraries while
    minimising the memory footprint of the PyQt4 modules.

.. cmdoption:: --dbus <DIR>, -s <DIR>

    The :file:`dbus-python.h` header file of the dbus-python package can be
    found in the directory ``<DIR>/dbus``.

.. cmdoption:: --debug, -u

    The PyQt4 modules will be built with debugging symbols. On Windows this
    requires that a debug version of Python is installed.

.. cmdoption:: --designer-plugindir <DIR>

    The Python plugin for Qt Designer will be installed in the directory
    ``<DIR>``.

.. cmdoption:: --destdir <DIR>, -d <DIR>

    The PyQt4 Python package will be installed in the directory ``<DIR>``. The
    default is the Python installation's :file:`site-packages` directory. If
    you use this option then the :envvar:`PYTHONPATH` environment variable must
    include ``<DIR>``.

.. cmdoption:: --enable <MODULE>, -e <MODULE>

    Normally all PyQt4 modules are enabled and are built if the corresponding

Qt library can be found. Using this option only those modules specifically
enabled will be checked for and built. The option may be specified any
number of times.

.. cmdoption:: --help, -h

   Display a help message.

.. cmdoption:: --no-deprecated

   All Qt v4 features that have been deprecated in Qt v5 will be disabled.
   This is useful when porting PyQt4 applications to PyQt5.

.. cmdoption:: --no-designer-plugin

   The Qt Designer plugin will not be built.

.. cmdoption:: --no-docstrings

   The PyQt4 modules will not contain automatically generated docstrings.

.. cmdoption:: --no-qsci-api

   The :file:`PyQt4.api` QScintilla API file is not installed even if
   QScintilla does appear to be installed.

.. cmdoption:: --no-sip-files

   The ``.sip`` files for the PyQt4 modules will not be installed.

.. cmdoption:: --no-timestamp, -T

   Normally the header comments of each generated C/C++ source file includes
   a timestamp corresponding to when the file was generated. This option
   suppresses the inclusion of the timestamp.

.. cmdoption:: --plugin <PLUGIN>, -t <PLUGIN>

   If Qt has been built as static libraries then the static plugin
   ``<PLUGIN>`` will be linked with the appropriate PyQt4 module. The option
   may be specified any number of times.

.. cmdoption:: --protected-is-public

   On certain platforms the size of PyQt4 modules can be significantly reduced
   by redefining the C++ ``protected`` keyword as ``public`` during
   compilation. This option enables this behaviour and is the default on
   Linux and MacOS/X.

.. cmdoption:: --protected-not-public

   The default redefinition of ``protected`` to ``public`` during compilation
   on Linux and MacOS/X is disabled.

.. cmdoption:: --pyuic4-interpreter <FILE>

   ``<FILE>`` is the name of the Python interpreter used in the pyuic4
   wrapper. The default is platform dependent.

.. cmdoption:: --qmake <FILE>, -q <FILE>

   Qt's :program:`qmake` program is used to determine how your Qt installation
   is laid out. Normally :program:`qmake` is found on your :envvar:`PATH`.
   This option can be used to specify a particular instance of
   :program:`qmake` to use. This option is not available on Windows where
   :program:`qmake` must be on :envvar:`PATH`.

.. cmdoption:: --qsci-api, -a

   The :file:`PyQt4.api` QScintilla API file is installed even if QScintilla
   does not appear to be installed. This option is implied if the
   :option:`--qsci-api-destdir` option is specified.

.. cmdoption:: --qsci-api-destdir <DIR>, -n <DIR>

   The QScintilla API file will be installed in the :file:`python`
   subdirectory of the :file:`api` subdirectory of the directory ``<DIR>``.

.. cmdoption:: --sip <FILE>

   The :program:`sip` program is used to generate PyQt4's C++ source code.
   Normally :program:`sip` is found on your :envvar:`PATH`. This option can
   be used to specify a particular instance of :program:`sip` to use.

.. cmdoption:: --sip-incdir <DIR>

   The ``sip.h`` header file can be found in the directory ``<DIR>``.

.. cmdoption:: --sipdir <DIR>, -v <DIR>

   The ``.sip`` files for the PyQt4 modules will be installed in the directory
   ``<DIR>``.

.. cmdoption:: --spec <SPEC>

   The argument ``-spec SPEC`` will be passed to :program:`qmake`. The

default behaviour is platform specific. On Windows
:program:`configure-ng.py` will choose the value that is correct for the
version of Python that is being used. (However if you have built Python
yourself then you may need to explicitly specify ``<SPEC>``.) On MacOS
:program:`configure-ng.py` will try and avoid ``macx-xcode`` if possible.)

.. cmdoption:: --static, -k

The PyQt4 modules will be built as static libraries. This is useful when
building a custom interpreter with the PyQt4 modules built in to the
interpreter.

.. cmdoption:: --trace, -r

The generated PyQt4 modules contain additional tracing code that is enabled
using SIP's :func:`sip.settracemask` function.

.. cmdoption:: --vendorid, -i

The checking of signed Python interpreters using the `VendorID
<http://www.riverbankcomputing.com/software/vendorid/>`__ package is
enabled. See also the :option:`--vendorid-incdir` and
:option:`--vendorid-libdir` options and :ref:`ref-deploy-commercial`.

.. cmdoption:: --vendorid-incdir <DIR>, -l <DIR>

The header file of the VendorID package can be found in the directory
``<DIR>``.

.. cmdoption:: --vendorid-libdir <DIR>, -m <DIR>

The library of the VendorID package can be found in the directory
``<DIR>``.

.. cmdoption:: --verbose, -w

Compiler commands and any output issued during configuration is displayed
instead of being suppressed. Use this if :program:`configure-ng.py` is
having problems to see what exactly is going wrong.

.. cmdoption:: --version

Display the PyQt4 version number.

Any remaining command line arguments are expected to be in the form
``name=value`` or ``name+=value``. Such arguments are added to any
:program:`qmake` ``.pro`` file created by :program:`configure-ng.py`.

Using :program:`configure.py`
....

The :program:`configure.py` script is used to configure PyQt4 as follows::

   python configure.py

This assumes that the Python interpreter is on your path. Something like the
following may be appropriate on Windows::

   c:\python33\python configure.py

If you have multiple versions of Python installed then make sure you use the
interpreter for which you wish to build PyQt4 for.

The full set of command line options is:

.. program:: configure.py

.. cmdoption:: --assume-shared

   Normally Qt is checked to see if it has been built as shared libraries.
   Some Linux distributions configure their Qt builds to make this check
   unreliable. This option ignores the result of the check and assumes that
   Qt has been built as shared libraries.

.. cmdoption:: --bindir <DIR>, -b <DIR>

   The :program:`pyuic4`, :program:`pyrcc4` and :program:`pylupdate4`
   utilities will be installed in the directory ``<DIR>``.

.. cmdoption:: --concatenate, -c

   The C++ source files for a Python module will be concatenated. This
   results in significantly reduced compilation times. Most, but not all,
   C++ compilers can handle the large files that result. See also the
   :option:`--concatenate-split` option.

.. cmdoption:: --concatenate-split <N>, -j <N>

   If the :option:`--concatenate` option is used to concatenate the C++ source
   files then this option determines how many files are created. The default
   is 1.

.. cmdoption:: --confirm-license

   Using this confirms that you accept the terms of the PyQt4 license.

.. cmdoption:: --consolidate, -g

Normally each PyQt4 module (except for the :mod:`~PyQt4.Qt` module) is
linked against the corresponding Qt library. This option creates a module
called :mod:`~PyQt4._qt` which is linked against all the required Qt
libraries and the other modules are stub modules that populate their module
dictionaries from this one. This is useful when linking against static Qt
libraries to eliminate the need to distribute the Qt libraries while
minimising the memory footprint of the PyQt4 modules.

.. cmdoption:: --dbus <DIR>, -s <DIR>

The :file:`dbus-python.h` header file of the dbus-python package can be
found in the directory ``<DIR>/dbus``.

.. cmdoption:: --debug, -u

The PyQt4 modules will be built with debugging symbols. On Windows this
requires that a debug version of Python is installed.

.. cmdoption:: --destdir <DIR>, -d <DIR>

The PyQt4 Python package will be installed in the directory ``<DIR>``. The
default is the Python installation's :file:`site-packages` directory. If
you use this option then the :envvar:`PYTHONPATH` environment variable must
include ``<DIR>``.

.. cmdoption:: --enable <MODULE>, -e <MODULE>

Normally all PyQt4 modules are enabled and are built if the corresponding
Qt library can be found. Using this option only those modules specifically
enabled will be checked for and built. The option may be specified any
number of times.

.. cmdoption:: --help, -h

Display a help message.

.. cmdoption:: --no-deprecated

All Qt v4 features that have been deprecated in Qt v5 will be disabled.
This is useful when porting PyQt4 applications to PyQt5.

.. cmdoption:: --no-designer-plugin

The Qt Designer plugin will not be built.

.. cmdoption:: --no-docstrings

   The PyQt4 modules will not contain automatically generated docstrings.

.. cmdoption:: --no-qsci-api

   The :file:`PyQt4.api` QScintilla API file is not installed even if
   QScintilla does appear to be installed.

.. cmdoption:: --no-sip-files

   The ``.sip`` files for the PyQt4 modules will not be installed.

.. cmdoption:: --no-timestamp, -T

   Normally the header comments of each generated C/C++ source file includes
   a timestamp corresponding to when the file was generated. This option
   suppresses the inclusion of the timestamp.

.. cmdoption:: --plugin <PLUGIN>, -t <PLUGIN>

   If Qt has been built as static libraries then the static plugin
   ``<PLUGIN>`` will be linked with the appropriate PyQt4 module. The option
   may be specified any number of times.

.. cmdoption:: --plugin-destdir <DIR>, -p <DIR>

   The Qt Designer plugin that manages plugins implemented in Python will be
   installed in the :file:`designer` subdirectory of the directory ``<DIR>``.

.. cmdoption:: --protected-is-public

   On certain platforms the size of PyQt4 modules can be significantly reduced
   by redefining the C++ ``protected`` keyword as ``public`` during
   compilation. This option enables this behaviour and is the default on
   Linux and MacOS/X.

.. cmdoption:: --protected-not-public

   The default redefinition of ``protected`` to ``public`` during compilation
   on Linux and MacOS/X is disabled.

.. cmdoption:: --qmake <FILE>, -q <FILE>

   Qt's :program:`qmake` program is used to determine how your Qt installation
   is laid out. Normally :program:`qmake` is found on your :envvar:`PATH`.
   This option can be used to specify a particular instance of
   :program:`qmake` to use. This option is not available on Windows.

.. cmdoption:: --qsci-api, -a

  The :file:`PyQt4.api` QScintilla API file is installed even if QScintilla
  does not appear to be installed. This option is implied if the
  :option:`--qsci-api-destdir` option is specified.

.. cmdoption:: --qsci-api-destdir <DIR>, -n <DIR>

  The QScintilla API file will be installed in the :file:`python`
  subdirectory of the :file:`api` subdirectory of the directory ``<DIR>``.

.. cmdoption:: --sipdir <DIR>, -v <DIR>

  The ``.sip`` files for the PyQt4 modules will be installed in the directory
  ``<DIR>``.

.. cmdoption:: --static, -k

  The PyQt4 modules will be built as static libraries. This is useful when
  building a custom interpreter with the PyQt4 modules built in to the
  interpreter.

.. cmdoption:: --trace, -r

  The generated PyQt4 modules contain additional tracing code that is enabled
  using SIP's :func:`sip.settracemask` function.

.. cmdoption:: --use-arch <ARCH>

  When :program:`pyuic4` calls the Python interpreter on MacOS it will be run
  using the architecture ``<ARCH>``. See the section :ref:`ref-macos`.

.. cmdoption:: --vendorid, -i

  The checking of signed Python interpreters using the `VendorID
  <http://www.riverbankcomputing.com/software/vendorid/>`__ package is
  enabled. See also the :option:`--vendorid-incdir` and
  :option:`--vendorid-libdir` options and :ref:`ref-deploy-commercial`.

.. cmdoption:: --vendorid-incdir <DIR>, -l <DIR>

  The header file of the VendorID package can be found in the directory
  ``<DIR>``.

.. cmdoption:: --vendorid-libdir <DIR>, -m <DIR>

  The library of the VendorID package can be found in the directory

``<DIR>``.

.. cmdoption:: --verbose, -w

  Compiler commands and any output issued during configuration is displayed
  instead of being suppressed. Use this if :program:`configure.py` is having
  problems to see what exactly is going wrong.

.. cmdoption:: --version

  Display the PyQt4 version number.

.. _ref-macos:

Configuring SIP and PyQt4 for MacOS
....

Note that this section only applies if you are using the
:program:`configure.py` script to configure PyQt4. The
:program:`configure-ng.py` script leaves it to Qt's :program:`qmake` program to
handle the details. :program:`configure-ng.py` does not support the creation
of universal binaries.

Building applications for MacOS can be a complex process. Typically the
following need to be taken into account:

- the architectures (i.e. i386, x86_64, ppc) that you want to support

- the earliest version of MacOS you want to support (i.e. the deployment
  target)

- the version of the SDK you want to use.

If you are using a binary installer for Python and/or Qt then you also need to
consider how they have been built regarding the above, and what bugs they have.

SIP's and PyQt4's :program:`configure.py` scripts provide the necessary command
line options to allow the correct configurations to be specified - the trick is
to work out which options to use depending on the versions of Python and Qt you
have installed.

SIP provides the following command line options to its :program:`configure.py`
script.

- ``--arch <ARCH>`` specifies the target architecture and may be specified a
  number of times.

- ``--universal`` is a shortcut for ``--arch i386 --arch ppc``.

- ``--deployment-target <VERSION>`` specifies the earliest version of MacOS you
  want to support. This sets the :envvar:`MACOSX_DEPLOYMENT_TARGET`
  environment variable and should be used rather than setting the environment
  variable in the shell (to work around bugs in some versions of Python).

- ``--sdk <SDK>`` specifies the SDK to use.

PyQt4 provides the :option:`--use-arch <configure.py --use-arch>` option that
specifies which architecture certain PyQt4 tools (actually only
:program:`pyuic4` at the moment) will use when running Python. For example, if
your Qt installation is 32 bits, and your Python installation is 32 bits and
64 bits then you will need to specify ``--use-arch i386`` to ensure that
:program:`pyuic4` runs the 32 bit version of Python.

Building PyQt4

The next step is to build PyQt4 by running your platform's :program:`make`
command. For example::

    make

The final step is to install PyQt4 by running the following command::

    make install

(Depending on your system you may require root or administrator privileges.)

This will install the various PyQt4 components.

Introduction
============

This is the reference guide for PyQt4 4.10.1. PyQt4 is a set of
`Python <http://www.python.org>`__ bindings for v4 and v5 of the Qt application
framework from `Nokia <http://qt.nokia.com>`__.

There is a separate `PyQt4 Class Reference <classes.html>`__.

Qt is a set of C++ libraries and development tools that includes platform
independent abstractions for graphical user interfaces, networking, threads,
Unicode, regular expressions, SQL databases, SVG, OpenGL, XML, and user and
application settings. PyQt4 implements 440 of these classes as a set of
Python modules.

PyQt4 supports the Windows, Linux, UNIX and MacOS/X platforms.

PyQt4 does not include Qt itself - you must obtain it separately.

The homepage for PyQt4 is http://www.riverbankcomputing.com/software/pyqt/. Here you will always find the latest stable version, current development snapshots, and the latest version of this documentation.

PyQt4 is built using the `SIP bindings generator <http://www.riverbankcomputing.com/software/sip/>`__. SIP must be installed in order to build and use PyQt4.

Earlier versions of Qt are supported by PyQt v3.

License

PyQt4 is licensed on all platforms under a commercial license, the GPL v2 and the GPL v3. Your PyQt4 license must be compatible with your Qt license. If you use the GPL versions then your own code must also use a compatible license.

PyQt4, unlike Qt, is not available under the LGPL.

You can purchase a commercial PyQt4 license `here <http://www.riverbankcomputing.com/commercial/buy>`__.

PyQt4 Components

PyQt4 comprises a number of different components. First of all there are a number of Python extension modules. These are all installed in the :mod:`PyQt4` Python package.

- The :mod:`~PyQt4.QtCore` module. This contains the core non-GUI classes, including the event loop and Qt's signal and slot mechanism. It also includes platform independent abstractions for Unicode, threads, mapped files, shared memory, regular expressions, and user and application settings.

- The :mod:`~PyQt4.QtGui` module. This contains the majority of the GUI classes.

- The :mod:`~PyQt4.QtHelp` module. This contains classes for creating and viewing searchable documentation.

- The :mod:`~PyQt4.QtNetwork` module. This module contains classes for writing UDP and TCP clients and servers. It includes classes that implement FTP and

HTTP clients and support DNS lookups.

- The :mod:`~PyQt4.QtOpenGL` module. This module contains classes that enable
  the use of OpenGL in rendering 3D graphics in PyQt4 applications.

- The :mod:`~PyQt4.QtScript` module. This module contains classes that enable
  PyQt4 applications to be scripted using Qt's JavaScript interpreter.

- The :mod:`~PyQt4.QtScriptTools` module. This module contains classes that
  contain additional components (e.g. a debugger) that are used with Qt's
  JavaScript interpreter.

- The :mod:`~PyQt4.QtSql` module. This module contains classes that integrate
  with SQL databases. It includes editable data models for database tables
  that can be used with GUI classes. It also includes an implementation of
  `SQLite <http://www.sqlite.org>`__.

- The :mod:`~PyQt4.QtSvg` module. This module contains classes for displaying
  the contents of SVG files.

- The :mod:`~PyQt4.QtTest` module. This module contains functions that enable
  unit testing of PyQt4 applications. (PyQt4 does not implement the complete
  Qt unit test framework. Instead it assumes that the standard Python unit
  test framework will be used and implements those functions that simulate a
  user interacting with a GUI.)

- The :mod:`~PyQt4.QtWebKit` module. This module implements a web browser
  engine based on the WebKit open source browser engine.

- The :mod:`~PyQt4.QtXml` module. This module contains classes that implement
  SAX and DOM interfaces to Qt's XML parser.

- The :mod:`~PyQt4.QtXmlPatterns` module. This module contains classes that
  implement XQuery and XPath support for XML and custom data models.

- The :mod:`~PyQt4.phonon` module. This module contains classes that implement
  a cross-platform multimedia framework that enables the use of audio and video
  content in PyQt4 applications.

- The :mod:`~PyQt4.QtDBus` module. This Unix-only module provides classes that
  support Inter-Process Communication using the D-Bus protocol.

- The :mod:`~PyQt4.QtDeclarative` module. This module provides a declarative
  framework for building highly dynamic, custom user interfaces using QML.

- The :mod:`~PyQt4.QtMultimedia` module. This module provides low-level
  multimedia functionality. Application developers would normally use the
  :mod:`~PyQt4.phonon` module.

- The :mod:`~PyQt4.QtAssistant` module. This module contains classes that
  allow Qt Assistant to be integrated with a PyQt4 application to provide
  online help. This module is not available with Qt v4.7 and later - use the
  :mod:`~PyQt4.QtHelp` module instead.

- The :mod:`~PyQt4.QtDesigner` module. This module contains classes that allow
  Qt Designer to be extended using PyQt4. See :ref:`ref-designer-plugins` for
  a full description of how to do this.

- The :mod:`~PyQt4.QAxContainer` module. This Windows-only module contains
  classes that allow access to ActiveX controls and COM objects.

- The :mod:`~PyQt4.Qt` module. This module consolidates the classes contained
  in all of the modules described above into a single module. This has the
  advantage that you don't have to worry about which underlying module contains
  a particular class. It has the disadvantage that it loads the whole of the
  Qt framework, thereby increasing the memory footprint of an application.
  Whether you use this consolidated module, or the individual component modules
  is down to personal taste.

- The `DBus <http://www.freedesktop.org/wiki/Software/DBusBindings>`__ support
  module is installed as :mod:`dbus.mainloop.qt`. This module provides support
  for the Qt event loop in the same way that the :mod:`dbus.mainloop.glib`
  included with the standard ``dbus-python`` bindings package provides support
  for the GLib event loop. The API is described in :ref:`ref-dbus`. It is
  only available if the ``dbus-python`` v0.80 (or later) bindings package is
  installed. The :mod:`~PyQt4.QtDBus` module provides a more Qt-like interface
  to DBus.

- The :mod:`~PyQt4.uic` module. This module contains classes for handling the
  ``.ui`` files created by Qt Designer that describe the whole or part of a
  graphical user interface. It includes classes that load a ``.ui`` file and
  render it directly, and classes that generate Python code from a ``.ui`` file
  for later execution.

- The :mod:`~PyQt4.pyqtconfig` module is an extention of the SIP build system
  and is created when PyQt4 is configured. It encapsulates all the necessary
  information about your Qt installation and makes it easier to write
  installation scripts for bindings built on top of PyQt4. It is covered in
  detail in :ref:`ref-build-system`.

PyQt4 also contains a number of utility programs.

- :program:`pyuic4` corresponds to the Qt :program:`uic` utility. It converts
  GUIs created using Qt Designer to Python code.

- :program:`pyrcc4` corresponds to the Qt :program:`rcc` utility. It embeds

arbitrary resources (eg. icons, images, translation files) described by a
resource collection file in a Python module.

.. note::
  It will only be included if your copy of Qt includes the XML module.

- :program:`pylupdate4` corresponds to the Qt :program:`lupdate` utility. It
  extracts all of the translatable strings from Python code and creates or
  updates ``.ts`` translation files. These are then used by Qt Linguist to
  manage the translation of those strings.

.. note::
  It will only be included if your copy of Qt includes the XML module.

When PyQt4 is configured a file called :file:`PyQt4.api` is generated. This
can be used by the QScintilla editor component (at
http://www.riverbankcomputing.com/software/qscintilla/) to enable the use of
auto-completion and call tips when editing PyQt4 code. The API file is
installed automatically if QScintilla is already installed.

PyQt4 includes a large number of examples. These are ports to Python of many
of the C++ examples provided with Qt. They can be found in the
:file:`examples` directory.

Finally, PyQt4 contains the ``.sip`` files used by SIP to generate PyQt4
itself. These can be used by developers of bindings of other Qt based class
libraries - for example `PyQwt and PyQwt3D <http://pyqwt.sourceforge.net/>`__.
.. _ref-incompat-apis:

Selecting Incompatible APIs
===========================

PyQt4 provides limited support for multiple incompatible APIs and the ability
for an application to select between them at run-time. For example, an
application can choose whether ``QString`` is implemented as a Python type, or
is automatically converted to and from a Python v2 unicode object or a Python
v3 string object.

This ability allows developers to decide how to manage the transition from an
older deprecated, API to a newer incompatible API.

Each API that can be selected in this way has a name and a range of version
numbers. An application calls :func:`sip.setapi` to set the version number of
a particular API. This call must be made before any module that implements the
API is imported. Once set the version number cannot be changed. If not set
then an API will use its default version.

For example the following code will disable the use of ``QString``::

```
import sip
sip.setapi('QString', 2)

from PyQt4 import QtCore

# This will raise an attribute exception because QString is only wrapped
# in version 1 of the API.
s = QtCore.QString()
```

The following APIs are currently implemented:

- QDate v1, v2
- QDateTime v1, v2
- QString v1, v2
- QTextStream v1, v2
- QTime v1, v2
- QUrl v1, v2
- QVariant v1, v2

PyQt4 and Qt v5
===============

Building Against Qt v5

PyQt4 can be built against Qt v5 in exactly the same way that it is built
against Qt v4. However only a Qt v4 compatible subset of Qt v5 is supported,
specifically:

- any classes added in Qt v5 *are not* supported
- any new features added in Qt v5 to classes that exist in Qt v4 *are*
 supported
- any features that are marked as deprecated in Qt v5 *are* supported.

The :option:`--no-deprecated <configure.py --no-deprecated>` option to PyQt4's
:program:`configure.py` can be used to disable the support for the deprecated
features. This can be useful in the porting of PyQt4 applications to PyQt5.

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1. Source Code.

The "source code" for a work means the preferred form of the work
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implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to

produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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```
------------------------------------------------------------------------
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#
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#
# This file is part of PyQt.
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# WARRANTY OF DESIGN, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

target = pyrcc4
sources = main.cpp rcc.cpp
headers = rcc.h
<d!`B[%N,iC
TextoTtulo[%LnguaN/>
MainWindow
```

<d!`B[%N*iA
Texte
Titre[%LangueN/>
MainWindow
<d!`B[%N,iC
TestoTitolo[%LinguaN/>
MainWindow
This is the build file for pylupdate for Qt v4.
#
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Riverbank Computing Limited <info@riverbankcomputing.com>
#
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#
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PyQt; see the file LICENSE. If not, write to the Free Software Foundation,
Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

target = pylupdate4
sources = fetchtr.cpp merge.cpp numberh.cpp sametexth.cpp main.cpp metatranslator.cpp proparser.cpp
translator.cpp simtexth.cpp
headers = metatranslator.h proparser.h simtexth.h
moc_headers = translator.h
<d!`B[%N*i;
Metin
nvan[%DilN/>
MainWindow
<d!`B[%N,iC
TextoTitulo[%LenguaN/>
MainWindow
<d!`B[%N i9
Titel[%SpracheN/>
MainWindow
<d!`B[%N0iETekstiOtsikko[%
KieliN/>
MainWindow
<d!`B[%N,i?
TekstTiitel[%KeelN/>

MainWindow

<d!`B[%N*i?

Tekst

Tytul[%

JezykN/>

MainWindow

<d!`B[%N,iA

TekstTittel[%

SprkN/>

MainWindow

<d!`B[%N*i?

Tekst

Titel[%

SprogN/>

MainWindow

```python
#!/usr/bin/env python

from __future__ import division
from __future__ import with_statement

import base64
import os
import re
import sys

from PyQt4.QtCore import (PYQT_VERSION_STR, QByteArray, QDir, QEvent,
        QFile, QFileInfo, QIODevice, QPoint, QProcess, QRegExp,
        QSettings, QString, QT_VERSION_STR, QTextStream, QThread,
        QTimer, QUrl, QVariant, Qt, SIGNAL)
from PyQt4.QtGui import (QAction, QApplication, QButtonGroup, QCheckBox,
        QColor, QColorDialog, QComboBox, QCursor, QDesktopServices,
        QDialog, QDialogButtonBox, QFileDialog, QFont, QFontComboBox,
        QFontMetrics, QGridLayout, QHBoxLayout, QIcon, QInputDialog,
        QKeySequence, QLabel, QLineEdit, QListWidget, QMainWindow,
        QMessageBox, QPixmap, QPushButton, QRadioButton,
        QRegExpValidator, QShortcut, QSpinBox, QSplitter,
        QSyntaxHighlighter, QTabWidget, QTextBrowser, QTextCharFormat,
        QTextCursor, QTextDocument, QTextEdit, QToolTip, QVBoxLayout,
        QWidget)


__version__ = "0.9.9"
__license__ = """<font color=green>\
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Software Foundation, version 2 of the License, or version 3 of the
```

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<i>without any warranty</i>; without even the implied warranty of
<i>merchantability</i> or <i>fitness for a particular purpose</i>.
See the GNU General Public
License for more details."""

MAC = "qt_mac_set_native_menubar" in dir()

KEYWORDS = ["and", "as", "assert", "break", "class", "continue", "def",
    "del", "elif", "else", "except", "exec", "finally", "for", "from",
    "global", "if", "import", "in", "is", "lambda", "not", "or",
    "pass", "print", "raise", "return", "try", "while", "with",
    "yield"]

BUILTINS = ["abs", "all", "any", "basestring", "bool", "callable", "chr",
    "classmethod", "cmp", "compile", "complex", "delattr", "dict",
    "dir", "divmod", "enumerate", "eval", "execfile", "exit", "file",
    "filter", "float", "frozenset", "getattr", "globals", "hasattr",
    "hex", "id", "int", "isinstance", "issubclass", "iter", "len",
    "list", "locals", "long", "map", "max", "min", "object", "oct",
    "open", "ord", "pow", "property", "range", "reduce", "repr",
    "reversed", "round", "set", "setattr", "slice", "sorted",
    "staticmethod", "str", "sum", "super", "tuple", "type", "unichr",
    "unicode", "vars", "xrange", "zip"]

CONSTANTS = ["False", "True", "None", "NotImplemented", "Ellipsis"]

MODULES = dict([(key, False) for key in ("array", "bisect", "bsddb",
    "bz2", "codecs", "collections", "copy", "datetime", "decimal",
    "functools", "getopt", "gzip", "heapq", "itertools", "math",
    "optparse", "os", "os.path", "pickle", "cPickle", "random",
    "re", "string", "StringIO", "cStringIO", "struct", "subprocess",
    "sys", "tarfile", "time", "unicodedata", "weakref", "zipfile",
    "QAxContainer", "QtAssistant", "QtCore", "QtDesigner", "QtGui",
    "QtNetwork", "QtOpenGL", "QtSql", "QtSvg", "QtTest", "QtXml")])

TIMEOUT = 5000
ICONS = {}
PIXMAPS = {}
Config = {}
CAT = {} # Completions And Tooltips
MIN_COMPLETION_LEN = 3
MAX_TOOLTIP_LEN = 1000
FROM_IMPORT_RE = re.compile(r"from\s+([\w.]+)\s+import\s+(.*)")
WORDS = set()
WORD_RE = re.compile(r"[\W+.]")

```python
MIN_WORD_LEN = 3
MAX_WORD_LEN = 64
CATABLE_LINE_RE = QRegExp(r"\b(?:import|def|class)\s+")
CLASS_OR_DEF_RE = re.compile(r"(class|def) ([^\W(:]+)[:(]")


def trimQString(qstr, trimText):
    while qstr.startsWith(trimText):
        qstr = qstr.mid(len(trimText))
    while qstr.endsWith(trimText):
        qstr.chop(len(trimText))
    return qstr


def loadConfig():
    def setDefaultString(name, default):
        value = settings.value(name).toString()
        if value.isEmpty():
            value = default
        Config[name] = value

    settings = QSettings()
    for name in ("window", "shell"):
        Config["%swidth" % name] = settings.value("%swidth" % name,
            QVariant(QApplication.desktop()
                    .availableGeometry().width() / 2)).toInt()[0]
        Config["%sheight" % name] = settings.value("%sheight" % name,
            QVariant(QApplication.desktop()
                    .availableGeometry().height() / 2)).toInt()[0]
        Config["%sy" % name] = settings.value("%sy" % name,
            QVariant(0)).toInt()[0]
    Config["toolbars"] = settings.value("toolbars").toByteArray()
    Config["splitter"] = settings.value("splitter").toByteArray()
    Config["shellx"] = settings.value("shellx",
                        QVariant(0)).toInt()[0]
    Config["windowx"] = settings.value("windowx",
        QVariant(QApplication.desktop()
                    .availableGeometry().width() / 2)).toInt()[0]
    Config["remembergeometry"] = settings.value("remembergeometry",
        QVariant(True)).toBool()
    Config["startwithshell"] = settings.value("startwithshell",
        QVariant(True)).toBool()
    Config["showwindowinfo"] = settings.value("showwindowinfo",
        QVariant(True)).toBool()
    setDefaultString("shellstartup", """\
from __future__ import division
import codecs
import sys
```

```python
sys.stdin = codecs.getreader("UTF8")(sys.stdin)
sys.stdout = codecs.getwriter("UTF8")(sys.stdout)"""
  setDefaultString("newfile", """\
#!/usr/bin/env python

from __future__ import division

import sys
""")
  Config["backupsuffix"] = settings.value("backupsuffix",
        QVariant(".bak")).toString()
  setDefaultString("beforeinput", "#>>>")
  setDefaultString("beforeoutput", "#---")
  Config["cwd"] = settings.value("cwd", QVariant(".")).toString()
  Config["tooltipsize"] = settings.value("tooltipsize",
        QVariant(150)).toInt()[0]
  Config["maxlinestoscan"] = settings.value("maxlinestoscan",
        QVariant(5000)).toInt()[0]
  Config["pythondocpath"] = settings.value("pythondocpath",
        QVariant("http://docs.python.org")).toString()
  Config["autohidefinddialog"] = settings.value("autohidefinddialog",
        QVariant(True)).toBool()
  Config["findcasesensitive"] = settings.value("findcasesensitive",
        QVariant(False)).toBool()
  Config["findwholewords"] = settings.value("findwholewords",
        QVariant(False)).toBool()
  Config["tabwidth"] = settings.value("tabwidth",
        QVariant(4)).toInt()[0]
  Config["fontfamily"] = settings.value("fontfamily",
        QVariant("Bitstream Vera Sans Mono")).toString()
  Config["fontsize"] = settings.value("fontsize",
        QVariant(10)).toInt()[0]
  for name, color, bold, italic in (
        ("normal", "#000000", False, False),
        ("keyword", "#000080", True, False),
        ("builtin", "#0000A0", False, False),
        ("constant", "#0000C0", False, False),
        ("decorator", "#0000E0", False, False),
        ("comment", "#007F00", False, True),
        ("string", "#808000", False, False),
        ("number", "#924900", False, False),
        ("error", "#FF0000", False, False),
        ("pyqt", "#50621A", False, False)):
    Config["%sfontcolor" % name] = settings.value(
          "%sfontcolor" % name, QVariant(color)).toString()
    Config["%sfontbold" % name] = settings.value(
          "%sfontbold" % name, QVariant(bold)).toBool()
    Config["%sfontitalic" % name] = settings.value(
```

```python
            "%sfontitalic" % name, QVariant(italic)).toBool()



    def saveConfig():
        settings = QSettings()
        for key, value in Config.items():
            settings.setValue(key, QVariant(value))



    def checkForCAT(line):
        # We can't use CAT to keep track of which modules we have processed.
        # This is because if the user does "import os", one of the names we
        # will get is "os.path", which then goes into CAT; so if later the
        # user did "import os.path", the name "os.path" will already be in
        # CAT (from the "import os") and wouldn't be looked for. So we keep
        # a separate dictionary of modules that we've done in MODULES.
        line = line.strip()
        if line.startswith("import "):
            line = line[len("import "):]
            for mname in [mname.strip() for mname in line.split(",")]:
                if not MODULES.get(mname, False):
                    # We have not done this one
                    _updateCAT(mname)
        else:
            match = FROM_IMPORT_RE.match(line)
            if match:
                if match.group(1) == "__future__" or not match.group(2):
                    return
                for name in [x for x in
                        match.group(2).replace(",", " ").split()]:
                    mname = "%s.%s" % (match.group(1), name)
                    if not MODULES.get(mname, False):
                        # We have not done this one
                        _updateCAT(mname)
                    i = mname.rfind(".")
                    while i > -1:
                        mname = mname[:i]
                        if not MODULES.get(mname, False):
                            # We have not done this one
                            _updateCAT(mname)
                        i = mname.rfind(".")
            else:
                for word in WORD_RE.split(line):
                    if (not word or
                        len(word) < MIN_WORD_LEN or
                        len(word) > MAX_WORD_LEN or
                        word in CAT or word in WORDS):
                        continue
```

```python
            WORDS.add(word)


    def _updateCAT(mname):
        try:
            MODULES[mname] = True
            CAT.setdefault(mname, {})
            WORDS.discard(mname)
            module = __import__(mname)
            components = []
            if "." in mname:
                for component in mname.split(".")[1:]:
                    module = getattr(module, component)
                    components.append(component)
            for aname in dir(module):
                if aname.startswith("_"):
                    continue
                fullname = "%s.%s" % (mname, aname)
                CAT.setdefault(fullname, "")
                WORDS.discard(fullname)
                CAT.setdefault(aname, "")
                WORDS.discard(aname)
                for component in components:
                    CAT.setdefault("%s.%s" % (component, aname), "")
                    WORDS.discard("%s.%s" % (component, aname))
                # PyQt4 classes don't have docstrings
                if not mname.startswith(("Qt", "PyQt4")):
                    try:
                        tip = eval("sys.modules['%s'].%s.__doc__" % (
                                mname, aname))
                        if tip is not None:
                            tip = (tip[:MAX_TOOLTIP_LEN].strip()
                                    .replace("\n\n", "<p>"))
                            CAT[fullname] = tip
                            if CAT[aname] == "":    # First one (i.e., builtin)
                                CAT[aname] = tip    # wins
                            for component in components: # Last one wins
                                CAT["%s.%s" % (component, aname)] = tip
                    except:
                        pass
                try:
                    for bname in eval("dir(sys.modules['%s'].%s)" % (
                            mname, aname)):
                        if bname.startswith("_"):
                            continue
                        cname = "%s.%s" % (fullname, bname)
                        CAT.setdefault(cname, "")
                        WORDS.discard(cname)
```

```python
                    # PyQt4 classes don't have docstrings
                    if not mname.startswith(("Qt", "PyQt4")):
                        tip = None
                        try:
                            tip = eval(
                                "sys.modules['%s'].%s.%s.__doc__" % (
                                mname, aname, bname))
                        except:
                            pass
                        if tip is None:
                            try:
                                tip = eval(
                                    "sys.modules['%s'].%s.__doc__" % (
                                    mname, aname))
                            except:
                                pass
                        if tip is not None:
                            tip = (tip[:MAX_TOOLTIP_LEN].strip()
                                    .replace("\n\n", "<p>"))
                        CAT[cname] = tip
            except:
                pass
    except:
        pass


class HelpForm(QDialog):

    def __init__(self, parent=None):
        super(HelpForm, self).__init__(parent)
        self.setAttribute(Qt.WA_GroupLeader)
        self.setAttribute(Qt.WA_DeleteOnClose)
        browser = QTextBrowser()
        browser.setOpenExternalLinks(True)
        browser.setHtml( # TODO Improve
u"""
<p>This online help provides a brief introduction to Sandbox's completion
and Find and Replace dialog, followed by some useful online links, and
finishing with a summary of its key bindings. It is well worth pulling
down the menus and seeing what options are available since they are
almost all self-explanatory.
<p>
Word completion is achieved using <b>Ctrl+P</b> or by pressing <b>Tab</b>.
A tooltip will appear when you enter <b>(</b>, if one is available.
Completion and tooltips are available for Python's built-ins, and also for
any module that gets imported, whether as part of the start-up (see the
File\N{RIGHTWARDS ARROW}Configure dialog's At Startup tab), or that are
imported in the Shell, or that are mentioned in import statements in any
```

files that are opened. (This makes loading a file with lots of imports, or
writing an import command in the shell, take a tiny bit longer than it
would otherwise do.) The completion also tries to include your own
identifiers. Also, classes, methods, and functions are added to the Goto
menu. The number of lines that are scanned for completions, tooltips,
and for the Goto menu is specified in the
File\N{RIGHTWARDS ARROW}Configure dialog's General tab's Max Lines to Scan
spinbox.
<p>
When you click Find or Replace in the Find and Replace
dialog, the action will take place and the dialog will close. You can
then do further finds and replaces using Edit\N{RIGHTWARDS ARROW}Find
Again or Edit\N{RIGHTWARDS ARROW}Replace Again (or using
the keyboard shortcuts shown in the menu). If you prefer to have the
Find and Replace dialog visible and use its buttons instead, go to the
File\N{RIGHTWARDS ARROW}Configure dialog's General tab, and uncheck
Automatically Hide the Find and Replace dialog.
<p>
Some useful online documentation links:

Python Documentation

PyQt4 Documentation
<a
href="http://www.riverbankcomputing.com/Docs/PyQt4/html/classes.html">
PyQt4 Classes' Documentation
Python
Cookbook

<p>
Key bindings:

\N{UPWARDS ARROW} Move the cursor up one line
Ctrl+\N{UPWARDS ARROW} In the shell, copy the previous command
from the command history to the input window. In editor windows, move to
the previous line in the line history.
\N{DOWNWARDS ARROW} Move the cursor down one line
Ctrl+\N{DOWNWARDS ARROW} In the shell, copy the next command
from the command history to the input window. In editor windows, move to
the next line in the line history.
\N{LEFTWARDS ARROW} Move the cursor left one character
Ctrl+\N{LEFTWARDS ARROW} Move the cursor left one word
\N{RIGHTWARDS ARROW} Move the cursor right one character
Ctrl+\N{RIGHTWARDS ARROW} Move the cursor right one word
Ctrl+] Indent the selected text (or the current line) by %d
spaces
Ctrl+[Unindent the selected text (or the current line) by %d
spaces

Ctrl+A Select all the text
Backspace Delete the character to the left of the cursor
Ctrl+C Copy the selected text to the clipboard
Delete Delete the character to the right of the cursor
End Move the cursor to the end of the line
Ctrl+End Move the cursor to the end of the file
Ctrl+Enter Execute the input window's code, or execute the
current file. If executing a file and it is a console application, the
output is shown in a separate window which can be closed by pressing
Esc. (This is the same as pressing F5.)
Ctrl+F Pop up the Find and Replace dialog
F3 Find the next occurrence of the find text; if there is none,
pop up the Find and Replace dialog.
Shift+F3 Find the next occurrence of word at the cursor; the
search is case sensitive and whole words only.
F5 Execute the input window's code, or execute the current
file. If executing a file and it is a console application, the
output is shown in a separate window which can be closed by pressing
Esc. (This is the same as pressing Ctrl+Enter.)
Ctrl+H Launch Python's documentation in a web browser
Home Move the cursor to the beginning of the line
Ctrl+Home Move the cursor to the beginning of the file
Ctrl+K Delete to the end of the line
Ctrl+L Pop up the Goto Line dialog
Ctrl+M Go to the matching ([{< or >}]). The matcher looks
at the character preceding the cursor, and if it is a match character the
cursor moves so that the matched character precedes the cursor. If no
suitable character is preceding the cursor, but there is a suitable
character following the cursor, the cursor will advance one character (so
that the match character now precedes it), and works as just described.
(In other words the matching is after\N{LEFT RIGHT ARROW}after.)
Ctrl+N Open a new editor window
Ctrl+O Open a file open dialog to open a Python file
Ctrl+Shift+O Open the file at the cursor. This works for
<tt>import</tt> statements since Sandbox is smart enough to look for
foo.py if the cursor is on foo. It also works for standard modules, because
if foo.py is not found in the current file's directory, <tt>sys.path</tt>
is searched.
Ctrl+P and Tab Pop up a list of possible completions for
the current word. Use the up and down arrow keys and the page up and page
up keys (or the mouse) to navigate; click Enter to accept a
completion or Esc to cancel.
PageUp Move up one screen
PageDown Move down one screen
Ctrl+Q Terminate Sandbox; prompting to save any unsaved changes
for every editor window for which this is necessary. If the user cancels
any save unsaved changes message box, Sandbox will not terminate.
Ctrl+R Replace the next occurrence of the find text; if there is

none, pop up the Find and Replace dialog.
Ctrl+S Save the current file
Ctrl+V Paste the clipboard's text
Ctrl+W Close the current file; prompting to save any unsaved
changes if necessary
Ctrl+X Cut the selected text to the clipboard
Ctrl+Z Undo the last editing action
Ctrl+Shift+Z Redo the last editing action

Hold down Shift when pressing movement keys to select the text moved
over.

Press Esc to close this window.
""" % (Config["tabwidth"], Config["tabwidth"]))
    layout = QVBoxLayout()
    layout.setMargin(0)
    layout.addWidget(browser)
    self.setLayout(layout)
    self.resize(500, 500)
    QShortcut(QKeySequence("Escape"), self, self.close)
    self.setWindowTitle("Sandbox - Help")

class FindForm(QDialog):

  def __init__(self, parent=None):
    super(FindForm, self).__init__(parent)

    self.findEdit = QComboBox()
    self.findEdit.setDuplicatesEnabled(False)
    self.findEdit.setEditable(True)
    findLabel = QLabel("Find wha&t:")
    findLabel.setBuddy(self.findEdit)
    self.replaceEdit = QComboBox()
    self.replaceEdit.setDuplicatesEnabled(False)
    self.replaceEdit.setEditable(True)
    replaceLabel = QLabel("Replace w&ith:")
    replaceLabel.setBuddy(self.replaceEdit)
    self.caseSensitiveCheckBox = QCheckBox("&Case sensitive")
    self.caseSensitiveCheckBox.setChecked(Config["findcasesensitive"])
    self.wholeWordsCheckBox = QCheckBox("&Whole words only")
    self.wholeWordsCheckBox.setChecked(Config["findwholewords"])
    buttonBox = QDialogButtonBox()
    self.findButton = buttonBox.addButton("&Find",
        QDialogButtonBox.ActionRole)
    self.replaceButton = buttonBox.addButton("&Replace",
        QDialogButtonBox.ActionRole)
    buttonBox.addButton(QDialogButtonBox.Close)

```python
        if not MAC:
            self.caseSensitiveCheckBox.setFocusPolicy(Qt.NoFocus)
            self.wholeWordsCheckBox.setFocusPolicy(Qt.NoFocus)
            buttonBox.setFocusPolicy(Qt.NoFocus)

        grid = QGridLayout()
        grid.addWidget(findLabel, 0, 0)
        grid.addWidget(self.findEdit, 0, 1)
        grid.addWidget(replaceLabel, 1, 0)
        grid.addWidget(self.replaceEdit, 1, 1)
        layout = QVBoxLayout()
        layout.addLayout(grid)
        hbox = QHBoxLayout()
        hbox.addWidget(self.caseSensitiveCheckBox)
        hbox.addWidget(self.wholeWordsCheckBox)
        hbox.addStretch()
        layout.addLayout(hbox)
        layout.addWidget(buttonBox)
        self.setLayout(layout)

        self.connect(self.findEdit,
                SIGNAL("editTextChanged(QString)"), self.updateUi)
        self.connect(self.findButton, SIGNAL("clicked()"),
                    self.findClicked)
        self.connect(self.replaceButton, SIGNAL("clicked()"),
                    self.replaceClicked)
        self.connect(buttonBox, SIGNAL("rejected()"), self.reject)

        self.updateUi()
        self.setWindowTitle("Sandbox - Find and Replace")


    def findClicked(self):
        self.emit(SIGNAL("find"), self.findEdit.currentText(),
                self.caseSensitiveCheckBox.isChecked(),
                self.wholeWordsCheckBox.isChecked())
        if Config["autohidefinddialog"]:
            self.hide()


    def replaceClicked(self):
        self.emit(SIGNAL("replace"), self.findEdit.currentText(),
                self.replaceEdit.currentText(),
                self.caseSensitiveCheckBox.isChecked(),
                self.wholeWordsCheckBox.isChecked())
        if Config["autohidefinddialog"]:
            self.hide()
```

```python
    def updateUi(self):
        enable = not self.findEdit.currentText().isEmpty()
        self.findButton.setEnabled(enable)
        self.replaceButton.setEnabled(enable)


class PythonHighlighter(QSyntaxHighlighter):

    Rules = []
    Formats = {}

    def __init__(self, parent=None):
        super(PythonHighlighter, self).__init__(parent)

        self.initializeFormats()

        PythonHighlighter.Rules.append((QRegExp(
                "|".join([r"\b%s\b" % keyword for keyword in KEYWORDS])),
                "keyword"))
        PythonHighlighter.Rules.append((QRegExp(
                "|".join([r"\b%s\b" % builtin for builtin in BUILTINS])),
                "builtin"))
        PythonHighlighter.Rules.append((QRegExp(
                "|".join([r"\b%s\b" % constant
                for constant in CONSTANTS])), "constant"))
        PythonHighlighter.Rules.append((QRegExp(
                r"\b[+-]?[0-9]+[lL]?\b"
                r"|\b[+-]?0[xX][0-9A-Fa-f]+[lL]?\b"
                r"|\b[+-]?[0-9]+(?:\.[0-9]+)?(?:[eE][+-]?[0-9]+)?\b"),
                "number"))
        PythonHighlighter.Rules.append((QRegExp(
                r"\bPyQt4\b|\bQt?[A-Z][a-z]\w+\b"), "pyqt"))
        PythonHighlighter.Rules.append((QRegExp(r"\b@\w+\b"),
                "decorator"))
        stringRe = QRegExp(r"""(?:'[^']*'|"[^"]*")""")
        stringRe.setMinimal(True)
        PythonHighlighter.Rules.append((stringRe, "string"))
        self.stringRe = QRegExp(r"""(:?"["]".*"["]'|'".*")""")
        self.stringRe.setMinimal(True)
        PythonHighlighter.Rules.append((self.stringRe, "string"))
        self.tripleSingleRe = QRegExp(r"""'''(?!")""")
        self.tripleDoubleRe = QRegExp(r'''"""(?!')''')


    @staticmethod
    def initializeFormats():
        baseFormat = QTextCharFormat()
```

```
            baseFormat.setFontFamily(Config["fontfamily"])
            baseFormat.setFontPointSize(Config["fontsize"])
            for name in ("normal", "keyword", "builtin", "constant",
                    "decorator", "comment", "string", "number", "error",
                    "pyqt"):
                format = QTextCharFormat(baseFormat)
                format.setForeground(
                        QColor(Config["%sfontcolor" % name]))
                if Config["%sfontbold" % name]:
                    format.setFontWeight(QFont.Bold)
                format.setFontItalic(Config["%sfontitalic" % name])
                PythonHighlighter.Formats[name] = format


    def highlightBlock(self, text):
        NORMAL, TRIPLESINGLE, TRIPLEDOUBLE, ERROR = range(4)

        textLength = text.length()
        prevState = self.previousBlockState()

        self.setFormat(0, textLength,
                PythonHighlighter.Formats["normal"])

        if text.startsWith("Traceback") or text.startsWith("Error: "):
            self.setCurrentBlockState(ERROR)
            self.setFormat(0, textLength,
                    PythonHighlighter.Formats["error"])
            return
        if (prevState == ERROR and
            not (text.startsWith(sys.ps1) or text.startsWith("#"))):
            self.setCurrentBlockState(ERROR)
            self.setFormat(0, textLength,
                    PythonHighlighter.Formats["error"])
            return

        for regex, format in PythonHighlighter.Rules:
            i = regex.indexIn(text)
            while i >= 0:
                length = regex.matchedLength()
                self.setFormat(i, length,
                        PythonHighlighter.Formats[format])
                i = regex.indexIn(text, i + length)

        # Slow but good quality highlighting for comments. For more
        # speed, comment this out and add the following to __init__:
        # PythonHighlighter.Rules.append((QRegExp(r"#.*"), "comment"))
        if text.isEmpty():
            pass
```

```python
        elif text[0] == "#":
            self.setFormat(0, text.length(),
                    PythonHighlighter.Formats["comment"])
        else:
            stack = []
            for i, c in enumerate(text):
                if c in ("'", '"'):
                    if stack and stack[-1] == c:
                        stack.pop()
                    else:
                        stack.append(c)
                elif c == "#" and len(stack) == 0:
                    self.setFormat(i, text.length(),
                            PythonHighlighter.Formats["comment"])
                    break

        self.setCurrentBlockState(NORMAL)

        if self.stringRe.indexIn(text) != -1:
            return
        # This is fooled by triple quotes inside single quoted strings
        for i, state in ((self.tripleSingleRe.indexIn(text),
                TRIPLESINGLE),
                (self.tripleDoubleRe.indexIn(text),
                TRIPLEDOUBLE)):
            if self.previousBlockState() == state:
                if i == -1:
                    i = text.length()
                    self.setCurrentBlockState(state)
                self.setFormat(0, i + 3,
                        PythonHighlighter.Formats["string"])
            elif i > -1:
                self.setCurrentBlockState(state)
                self.setFormat(i, text.length(),
                        PythonHighlighter.Formats["string"])


    def rehighlight(self):
        QApplication.setOverrideCursor(QCursor(
                            Qt.WaitCursor))
        QSyntaxHighlighter.rehighlight(self)
        QApplication.restoreOverrideCursor()


class TextView(QTextEdit):

    def __init__(self, parent=None):
        super(QTextEdit, self).__init__(parent)
```

```python
        self.setAcceptRichText(False)
        font = QFont(Config["fontfamily"], Config["fontsize"])
        self.setFont(font)
        self.textcharformat = QTextCharFormat()
        self.textcharformat.setFont(font)


    def currentWord(self, cursor=None):
        if cursor is None:
            cursor = self.textCursor()
        cursor.movePosition(QTextCursor.StartOfWord)
        cursor.movePosition(QTextCursor.EndOfWord,
                    QTextCursor.KeepAnchor)
        return cursor.selectedText()


    def currentLine(self):
        cursor = self.textCursor()
        cursor.movePosition(QTextCursor.StartOfLine)
        cursor.movePosition(QTextCursor.EndOfLine,
                    QTextCursor.KeepAnchor)
        return cursor.selectedText()


    def lastNonEmptyLine(self):
        cursor = self.textCursor()
        cursor.movePosition(QTextCursor.End)
        cursor.movePosition(QTextCursor.StartOfLine,
                    QTextCursor.KeepAnchor)
        if cursor.selectedText().isEmpty():
            cursor.movePosition(QTextCursor.PreviousCharacter,
                        QTextCursor.KeepAnchor)
            cursor.movePosition(QTextCursor.StartOfLine,
                        QTextCursor.KeepAnchor)
        text = cursor.selectedText()
        if not text.isEmpty():
            while text.endsWith("\n"):
                text.chop(1)
            while text.endsWith(u"\u2029"):
                text.chop(1)
        return text


    def lastLine(self):
        cursor = self.textCursor()
        cursor.movePosition(QTextCursor.End)
        cursor.movePosition(QTextCursor.StartOfLine,
                    QTextCursor.KeepAnchor)
```

```python
        return cursor.selectedText()


class TextEdit(TextView):

    COMPLETION_X_OFFSET = None

    def __init__(self, parent=None):
        super(TextEdit, self).__init__(parent)
        self.setLineWrapMode(QTextEdit.NoWrap)
        self.indent = 0
        self.completionListWidget = None
        self.prefix = ""
        self.classes = set()
        self.defs = set()
        if TextEdit.COMPLETION_X_OFFSET is None:
            TextEdit.COMPLETION_X_OFFSET = QFontMetrics(
                    self.font()).width("x")


    def checkForClassOrDef(self, line):
        match = CLASS_OR_DEF_RE.search(line)
        if match:
            if not match.group(2).startswith("__"):
                if match.group(1) == "class":
                    self.classes.add(match.group(2))
                else:
                    self.defs.add(match.group(2))


    def event(self, event):
        tabwidth = Config["tabwidth"]
        tooltipsize = Config["tooltipsize"]
        indent = " " * tabwidth
        if event.type() == QEvent.KeyPress:
            if event.key() == Qt.Key_Backspace:
                line = self.currentLine()
                if len(line) >= tabwidth and line.endsWith(indent):
                    userCursor = self.textCursor()
                    for _ in range(tabwidth):
                        userCursor.deletePreviousChar()
                    self.indent = max(0, self.indent - 1)
                    return True
            elif event.key() == Qt.Key_Tab:
                if not self.tabChangesFocus():
                    cursor = self.textCursor()
                    cursor.movePosition(
                            QTextCursor.PreviousCharacter,
```

```python
                            QTextCursor.KeepAnchor)
                if cursor.selectedText().trimmed().isEmpty():
                    cursor = self.textCursor()
                    cursor.insertText(indent)
                else:
                    self.complete()
                return True
            # else leave for base class to handle
        elif event.key() == Qt.Key_ParenLeft:
            cursor = self.textCursor()
            cursor.movePosition(QTextCursor.StartOfLine,
                        QTextCursor.KeepAnchor)
            name = unicode(cursor.selectedText().section(" ", -1))
            tip = CAT.get(name)
            if tip is not None:
                rect = self.cursorRect()
                point = self.mapToGlobal(QPoint(rect.x(),
                                rect.y()))
                if len(tip) > tooltipsize:
                    tip = tip[:tooltipsize] + " ..."
                QToolTip.showText(point, tip)
        elif event.key() in (Qt.Key_Enter,
                    Qt.Key_Return):
            userCursor = self.textCursor()
            cursor = QTextCursor(userCursor)
            cursor.movePosition(QTextCursor.End)
            insert = "\n"
            cursor = QTextCursor(userCursor)
            cursor.movePosition(QTextCursor.StartOfLine)
            cursor.movePosition(QTextCursor.EndOfLine,
                        QTextCursor.KeepAnchor)
            line = cursor.selectedText()
            uline = unicode(line)
            checkForCAT(uline)
            self.checkForClassOrDef(uline)
            if line.endsWith(":") or line.endsWith("\\"):
                for c in line:
                    if c == " ":
                        insert += " "
                    else:
                        break
                insert += indent
                self.indent += 1
            elif line.startsWith(indent):
                for c in line:
                    if c == " ":
                        insert += " "
                    else:
```

```
                break
        userCursor.insertText(insert)
        return True
    elif event.key() in (Qt.Key_Up, Qt.Key_Down,
            Qt.Key_PageUp, Qt.Key_PageDown):
        cursor = self.textCursor()
        cursor.movePosition(QTextCursor.StartOfLine)
        cursor.movePosition(QTextCursor.EndOfLine,
                QTextCursor.KeepAnchor)
        line = cursor.selectedText()
        checkForCAT(unicode(line))
        # Fall through to let the base class handle the movement
    return QTextEdit.event(self, event)


def complete(self):
    def getWords(prefix):
        return [word for word in list(CAT.keys() + list(WORDS))
            if len(word) >= MIN_COMPLETION_LEN and
                word.startswith(prefix)]


    cursor = self.textCursor()
    cursor.movePosition(QTextCursor.StartOfLine,
            QTextCursor.KeepAnchor)
    self.prefix = cursor.selectedText().section(" ", -1)
    if self.prefix.isEmpty():
        return
    pos = self.prefix.length() - 1
    while (self.prefix.at(pos).isLetterOrNumber() or
        self.prefix[pos] == ".") and pos >= 0:
        pos -= 1
    if pos > 0:
        self.prefix = self.prefix.mid(pos + 1)
    if self.prefix.isEmpty():
        return
    words = getWords(self.prefix)
    while not words and self.prefix.contains("."):
        self.prefix = self.prefix.mid(self.prefix.indexIn(".") + 1)
        words = getWords(self.prefix)
    if not words:
        return
    if len(words) > 15:
        length = len(self.prefix)
        words = [word for word in words if "." not in word[length:]]
    firsttime = False
    if self.completionListWidget is None:
        self.completionListWidget = QListWidget(self)
        self.completionListWidget.setWindowFlags(Qt.Popup)
```

```python
            QShortcut(QKeySequence("Escape"),
                    self.completionListWidget,
                    self.completionListWidget.close)
            self.connect(self.completionListWidget,
                    SIGNAL("itemActivated(QListWidgetItem*)"),
                    self.userCompleted)
            firsttime = True
        self.completionListWidget.clear()
        self.completionListWidget.addItems(sorted(words))
        self.completionListWidget.setCurrentItem(
                self.completionListWidget.item(len(words) // 2))
        self.completionListWidget.scrollTo(
                self.completionListWidget.currentIndex(),
                QListWidget.PositionAtCenter)

        rect = self.cursorRect()
        point = self.mapToGlobal(QPoint(rect.x(), rect.y()))
        if not firsttime:
            screenRect = (QApplication.desktop()
                        .availableGeometry(self))
            xDiff = screenRect.width() - (point.x() +
                    self.completionListWidget.width())
            if xDiff < 0:
                point.setX(point.x() + xDiff)
            yDiff = screenRect.height() - (point.y() +
                    self.completionListWidget.height())
            if yDiff < 0:
                point.setY(point.y() + yDiff)
        point.setX(point.x() + TextEdit.COMPLETION_X_OFFSET)
        self.completionListWidget.move(point)
        self.completionListWidget.show()


    def userCompleted(self):
        extra = (self.completionListWidget.currentItem().text()
                .mid(len(self.prefix)))
        if not extra.isEmpty():
            cursor = self.textCursor()
            cursor.insertText(extra)
        self.completionListWidget.close()


    def gotoLine(self):
        cursor = self.textCursor()
        lino, ok = QInputDialog.getInteger(self,
                    "Sandbox - Goto Line",
                    "Goto line:", cursor.blockNumber() + 1,
                    1, self.document().blockCount())
```

```python
        if ok:
            cursor.movePosition(QTextCursor.Start)
            cursor.movePosition(QTextCursor.Down,
                    QTextCursor.MoveAnchor, lino - 1)
            self.setTextCursor(cursor)
            self.ensureCursorVisible()


    def gotoMatching(self):
        # move the cursor to the matching ()[]<>{} or do nothing
        OPEN = "([<{"
        CLOSE = ")]>}"
        cursor = self.textCursor()
        cursor.movePosition(QTextCursor.PreviousCharacter,
                    QTextCursor.KeepAnchor)
        c = unicode(cursor.selectedText())
        if c not in OPEN + CLOSE:
            cursor = self.textCursor()
            cursor.movePosition(QTextCursor.NextCharacter,
                    QTextCursor.KeepAnchor)
            c = unicode(cursor.selectedText())
            if c in OPEN + CLOSE:
                self.setTextCursor(cursor)
            else:
                return
        i = OPEN.find(c)
        if i > -1:
            movement = QTextCursor.NextCharacter
            stack = 0
            target = CLOSE[i]
        else:
            i = CLOSE.find(c)
            if i == -1:
                return
            movement = QTextCursor.PreviousCharacter
            stack = -1
            target = OPEN[i]
        cursor = self.textCursor()
        while (not (movement == QTextCursor.NextCharacter and
                cursor.atEnd()) and
            not (movement == QTextCursor.PreviousCharacter and
                cursor.atStart())):
            cursor.clearSelection()
            cursor.movePosition(movement, QTextCursor.KeepAnchor)
            x = unicode(cursor.selectedText())
            if not x:
                break
            if x == c:
```

```python
                stack += 1
            elif x == target:
                if stack == 0:
                    cursor.clearSelection()
                    if movement == QTextCursor.PreviousCharacter:
                        cursor.movePosition(
                            QTextCursor.NextCharacter)
                    self.setTextCursor(cursor)
                    break
                else:
                    stack -= 1


    def indentRegion(self):
        self._walkTheLines(True, " " * Config["tabwidth"])


    def unindentRegion(self):
        self._walkTheLines(False, " " * Config["tabwidth"])


    def commentRegion(self):
        self._walkTheLines(True, "# ")


    def uncommentRegion(self):
        self._walkTheLines(False, "# ")


    def _walkTheLines(self, insert, text):
        userCursor = self.textCursor()
        userCursor.beginEditBlock()
        start = userCursor.position()
        end = userCursor.anchor()
        if start > end:
            start, end = end, start
        block = self.document().findBlock(start)
        while block.isValid():
            cursor = QTextCursor(block)
            cursor.movePosition(QTextCursor.StartOfBlock)
            if insert:
                cursor.insertText(text)
            else:
                cursor.movePosition(QTextCursor.NextCharacter,
                    QTextCursor.KeepAnchor, len(text))
                if cursor.selectedText() == text:
                    cursor.removeSelectedText()
            block = block.next()
```

```python
            if block.position() > end:
                break
        userCursor.endEditBlock()


class ShellWidget(QSplitter):
    # Cannot offer a stop command since sending ^C or Del to the
    # interpreter does nothing. Alternative would be to use
    # code.InteractiveInterpreter but I prefer the real thing.

    def __init__(self, parent=None):
        super(ShellWidget, self).__init__(Qt.Vertical, parent)
        self.history = []
        self.historyIndex = -1
        self.output = TextView()
        self.output.setUndoRedoEnabled(False)
        self.output.setReadOnly(True)
        self.output.setTextInteractionFlags(
                Qt.TextSelectableByMouse|
                Qt.TextSelectableByKeyboard)
        self.connect(self.output, SIGNAL("textChanged()"),
                self.keepOutputVisible)
        self.outputHighlighter = PythonHighlighter(self.output.document())
        self.input = TextEdit()
        self.inputHighlighter = PythonHighlighter(self.input.document())
        self.addWidget(self.output)
        self.addWidget(self.input)
        QWidget.setTabOrder(self.input, self.output)
        self.process = None
        self.restartProcess()
        QShortcut(QKeySequence("F6"), self, self.changeFocus)
        self.setWindowTitle("Sandbox - Shell")


    def restartProcess(self):
        firsttime = False
        if self.process is not None:
            self.endProcess()
            self.output.append("%s RESTARTED %s\n" % ("#" * 20, "#" * 20))
        else:
            firsttime = True
        self.useSeparators = False
        self.starting = True
        self.inTraceback = False
        self.inError = False
        self.process = QProcess(self)
        cwd = Config["cwd"]
        if not cwd.isEmpty() and cwd != ".":
```

```python
            self.process.setWorkingDirectory(cwd)
        self.process.setProcessChannelMode(QProcess.MergedChannels)
        self.connect(self.process, SIGNAL("readyRead()"),
                self.readFromPython)
        self.process.start(sys.executable, ["-i"])
        self.process.waitForStarted()
        startup = Config.get("shellstartup")[:]
        if startup is not None:
            for line in startup.split("\n"):
                QTimer.singleShot(0,
                    lambda line=line:
                        self.writeToPython(QString(line + "\n")))
                QTimer.singleShot(0,
                    lambda line=line: checkForCAT(unicode(line)))
        QTimer.singleShot(0, lambda firsttime=firsttime:
                self.setUseSeparators(firsttime=firsttime))



    def setUseSeparators(self, on=True, firsttime=False):
        self.useSeparators = on
        if firsttime and Config["showwindowinfo"]:
            self.output.append("# This is the Python output window.")
            self.output.append("# Enter Python expressions and "
                        "definitions in the input window below, ")
            self.output.append("# then press F5 (or Ctrl+Enter) to "
                        "execute.")
            self.output.append(u"""\
# Use Tab or Ctrl+P for completion (which also works in editor windows),
# and Ctrl+\u2191 and Ctrl+\u2193 for the command history.\n
""")
            self.outputHighlighter.rehighlight()



    def endProcess(self):
        if self.process is not None and self.process.state():
            self.process.write(QByteArray("\x04"))
            self.process.close()
            self.process.terminate()
            QThread.msleep(100)
            if self.process.state():
                self.process.kill()
            self.process = None



    def changeFocus(self):
        if self.input.hasFocus():
            self.output.setFocus()
        else:
```

```python
        self.input.setFocus()


    def keepOutputVisible(self):
        self.output.moveCursor(QTextCursor.End)
        self.output.ensureCursorVisible()


    def writeSeparator(self, cursor, separator):
        if not self.useSeparators:
            return
        cursor.movePosition(QTextCursor.End)
        while True:
            cursor.movePosition(QTextCursor.PreviousCharacter,
                        QTextCursor.KeepAnchor)
            if cursor.selectedText() == "\n":
                cursor.deleteChar()
            else:
                break
        cursor.insertText("\n%s\n" % separator,
                    self.output.textcharformat)


    def readFromPython(self):
        beforeoutput = Config["beforeoutput"]
        beforeinput = Config["beforeinput"]
        cursor = self.output.textCursor()
        doneSeparator = False
        bytes = QByteArray()
        while self.process.bytesAvailable():
            bytes += self.process.readAll()
        lines = QString.fromUtf8(bytes.data()).split("\n")
        for line in lines:
            if line.endsWith(sys.ps1):
                self.inTraceback = False
                self.inError = False
            line = trimQString(line, sys.ps1)
            line = trimQString(line, sys.ps2)
            if line.isEmpty():
                continue
            if line.startsWith("Traceback"):
                self.inTraceback = True
            if line.startsWith('  File "'):
                self.inError = True
            if self.inError:
                line.replace("<stdin>", "<Shell>").prepend("Error: ")
            if not line.endsWith("\n"):
                line.append("\n")
```

```python
            if (not doneSeparator and
                not self.starting and
                not self.inTraceback):
                self.writeSeparator(cursor, beforeoutput)
                doneSeparator = True
            cursor = self.output.textCursor()
            cursor.movePosition(QTextCursor.End)
            cursor.insertText(line, self.output.textcharformat)
        if (not self.inTraceback and
            self.output.lastNonEmptyLine() != beforeinput):
            # Gives cleaner output, but it is slow!
            self.output.setPlainText(self.output.toPlainText().replace(
                "%s\n%s\n" % (beforeinput, beforeoutput), ""))
            self.writeSeparator(cursor, beforeinput)


    def writeToPython(self, text):
        cursor = self.output.textCursor()
        cursor.movePosition(QTextCursor.End)
        cursor.insertText(text, self.output.textcharformat)
        text.append("\n\n")
        self.process.write(text.toUtf8())
        self.process.waitForBytesWritten(-1)
        self.input.clear()


    def execute(self):
        self.starting = False
        text = self.input.toPlainText().trimmed()
        if text.isEmpty():
            text = QString("")
        elif not text.contains("\n"):
            checkForCAT(unicode(text))
        # TODO special case help()
        if text == "license()":
            text.prepend("license.MAXLINES = 9999;")
        else:
            self.history.append(text)
            self.historyIndex = len(self.history)
        text.append("\n")
        self.writeToPython(text)


    def undo(self):
        self.input.undo()


    def redo(self):
```

```python
        self.input.redo()


    def copy(self):
        if self.input.hasFocus():
            self.input.copy()
        else:
            self.output.copy()


    def cut(self):
        if self.input.hasFocus():
            self.input.cut()
        else:
            self.output.cut()


    def paste(self):
        if self.input.hasFocus():
            self.input.paste()
        else:
            self.output.paste()


    def selectAll(self):
        if self.input.hasFocus():
            self.input.selectAll()
        else:
            self.output.selectAll()


    def complete(self):
        self.input.complete()


    def gotoMatching(self):
        self.input.gotoMatching()


    def clearOutput(self):
        self.output.clear()


    def showPrevious(self):
        if -1 < self.historyIndex - 1 < len(self.history):
            self.historyIndex = max(0, self.historyIndex - 1)
            self.input.setText(self.history[self.historyIndex])
            self.input.setFocus()
```

```python
    def showNext(self):
        if -1 < self.historyIndex + 1 < len(self.history):
            self.historyIndex = min(len(self.history),
                             self.historyIndex + 1)
            self.input.setText(self.history[self.historyIndex])
        elif self.historyIndex+1 == len(self.history):
            self.historyIndex = len(self.history)
            self.input.clear()
            self.input.setFocus()


class EditWidget(TextEdit):

    def __init__(self, parent=None):
        super(EditWidget, self).__init__(parent)
        self.highlighter = PythonHighlighter(self.document())
        self.findForm = None
        self.process = None
        self.results = None
        self.args = ""
        self.history = [0]
        self.historyIndex = 0
        self.movingInHistory = False
        self.connect(self, SIGNAL("cursorPositionChanged()"),
                 self._updateHistory)


    def _updateHistory(self):
        if not self.movingInHistory:
            lino = self.textCursor().blockNumber()
            if lino != self.history[-1]:
                self.historyIndex = len(self.history)
                self.history.append(lino)


    def gotoPrevious(self):
        self.movingInHistory = True
        self.historyIndex = max(0, self.historyIndex - 1)
        self._gotoHistory()
        self.movingInHistory = False


    def gotoNext(self):
        self.movingInHistory = True
        self.historyIndex = min(len(self.history) - 1,
                         self.historyIndex + 1)
```

```python
        self._gotoHistory()
        self.movingInHistory = False


    def _gotoHistory(self):
        cursor = self.textCursor()
        cursor.movePosition(QTextCursor.Start)
        cursor.movePosition(QTextCursor.Down,
                    QTextCursor.MoveAnchor,
                    self.history[self.historyIndex])
        self.setTextCursor(cursor)
        self.ensureCursorVisible()


    def findText(self):
        if self.findForm is None:
            self.findForm = FindForm(self)
            self.connect(self.findForm, SIGNAL("find"),
                    self.findClicked)
            self.connect(self.findForm, SIGNAL("replace"),
                    self.replaceClicked)
        self.findForm.show()
        self.findForm.activateWindow()
        self.findForm.raise_()


    def findClicked(self, findText, caseSensitive, wholeWords):
        flags = QTextDocument.FindFlags()
        if caseSensitive:
            flags |= QTextDocument.FindCaseSensitively
        if wholeWords:
            flags |= QTextDocument.FindWholeWords
        cursor = self.document().find(findText, self.textCursor(), flags)
        if not cursor.isNull():
            self.setTextCursor(cursor)
        else:
            self.parent().statusBar().showMessage(
                    "'%s' not found" % findText, TIMEOUT)
        return cursor


    def findNext(self):
        if (self.findForm is None or
            self.findForm.findEdit.currentText().isEmpty()):
            self.findText()
        else:
            self.findClicked(self.findForm.findEdit.currentText(),
                    self.findForm.caseSensitiveCheckBox.isChecked(),
```

```python
            self.findForm.wholeWordsCheckBox.isChecked())


    def findWordAt(self):
        word = self.currentWord()
        if not word.isEmpty():
            self.findClicked(word, True, True)


    def replaceClicked(self, findText, replaceText, caseSensitive,
                wholeWords):
        cursor = self.findClicked(self.findForm.findEdit.currentText(),
                self.findForm.caseSensitiveCheckBox.isChecked(),
                self.findForm.wholeWordsCheckBox.isChecked())
        if cursor.isNull():
            return
        cursor.beginEditBlock()
        start = min(cursor.anchor(), cursor.position())
        cursor.removeSelectedText()
        cursor.insertText(replaceText)
        cursor.setPosition(start)
        cursor.setPosition(start + replaceText.length(),
                QTextCursor.KeepAnchor)
        cursor.endEditBlock()
        self.setTextCursor(cursor)


    def replaceNext(self):
        if (self.findForm is None or
            self.findForm.findEdit.currentText().isEmpty()):
            self.findText()
        else:
            self.replaceClicked(self.findForm.findEdit.currentText(),
                self.findForm.replaceEdit.currentText(),
                self.findForm.caseSensitiveCheckBox.isChecked(),
                self.findForm.wholeWordsCheckBox.isChecked())


    def setArgs(self):
        args, ok = QInputDialog.getText(self,
                "Sandbox - Set Arguments",
                "Command line arguments:",
                QLineEdit.Normal, self.args)
        self.args = ""
        if ok:
            self.args = unicode(args)
```

```python
def execute(self):
    filename = self.parent().filename
    if (self.document().isModified() and
        (QMessageBox.question(self,
                "Sandbox - Unsaved Changes",
                "Save unsaved changes in %s before executing?" %
                filename,
                QMessageBox.Yes|QMessageBox.No) ==
                QMessageBox.Yes)):
        self.parent().fileSave()
    if self.results is None:
        self.results = TextView()
        self.results.setUndoRedoEnabled(False)
        self.results.setReadOnly(True)
        self.results.setTextInteractionFlags(
                Qt.TextSelectableByMouse|
                Qt.TextSelectableByKeyboard)
        fm = QFontMetrics(self.font())
        # TODO Make the default width & height configurable
        self.results.resize(fm.width("X") * 80, fm.height() * 25)
        self.connect(self.results, SIGNAL("textChanged()"),
                self.keepResultsVisible)
        QShortcut(QKeySequence("Escape"), self.results,
                self.results.close)
    else:
        self.results.clear()
    self.results.setWindowTitle("Sandbox - %s %s [Running]" % (
            QFileInfo(filename).fileName(),
            " ".join(self.args.split())))
    self.process = QProcess(self)
    cwd = Config["cwd"]
    if not cwd.isEmpty() and cwd != ".":
        self.process.setWorkingDirectory(cwd)
    self.process.setProcessChannelMode(QProcess.MergedChannels)
    self.connect(self.process, SIGNAL("readyRead()"),
            self.readResults)
    self.process.start(sys.executable, [filename] + self.args.split())
    self.process.waitForStarted()


def readResults(self):
    self.results.show()
    self.results.activateWindow()
    self.results.raise_()
    bytes = QByteArray()
    while self.process.bytesAvailable():
        bytes += self.process.readAll()
    self.results.append(QString.fromUtf8(bytes.data()))
```

```python
def keepResultsVisible(self):
    self.results.moveCursor(QTextCursor.End)
    self.results.ensureCursorVisible()


def closeEvent(self, event):
    self.stop()
    event.accept()


def stop(self):
    if self.process is not None and self.process.state():
        self.process.terminate()
        QThread.msleep(100)
        if self.process.state():
            self.process.kill()
        self.results.setWindowTitle(self.results.windowTitle().replace(
                "[Running]", "[Stopped]"))


def raiseResultsWindow(self):
    if self.results is not None:
        self.results.activateWindow()
        self.results.raise_()


class ConfigForm(QDialog):

    def __init__(self, parent=None):
        super(ConfigForm, self).__init__(parent)

        self.highlightingChanged = False
        fm = QFontMetrics(self.font())
        monofont = QFont(Config["fontfamily"], Config["fontsize"])
        pixmap = QPixmap(16, 16)
        self.colors = {}
        self.boldCheckBoxes = {}
        self.italicCheckBoxes = {}
        self.completionCheckBoxes = {}
        self.editors = {}

        generalWidget = QWidget()
        self.rememberGeometryCheckBox = QCheckBox(
                "&Remember Geometry")
        self.rememberGeometryCheckBox.setToolTip("<p>Check this to make "
                "Sandbox remember the size and position of the Shell "
```

```
        "window and one Editor window")
self.rememberGeometryCheckBox.setChecked(
     Config["remembergeometry"])
self.editorWindowRadioButton = QRadioButton(
     "Start With Editor &Window")
self.shellWindowRadioButton = QRadioButton(
     "Start With &Shell Window")
startWithButtonGroup = QButtonGroup(self)
startWithButtonGroup.setExclusive(True)
startWithButtonGroup.addButton(self.editorWindowRadioButton)
startWithButtonGroup.addButton(self.shellWindowRadioButton)
startwithshell = Config["startwithshell"]
self.shellWindowRadioButton.setChecked(startwithshell)
self.editorWindowRadioButton.setChecked(not startwithshell)
self.autoHideFindDlgCheckBox = QCheckBox(
     "Automati&cally Hide the Find and Replace dialog")
self.autoHideFindDlgCheckBox.setToolTip("<p>If checked, when you "
     "press Find or Replace the dialog will be hidden; "
     "further finds and replaces can be done through the Edit "
     "menu (which lists the keyboard shortcuts). Uncheck this "
     "if you prefer the dialog to stay visible and to click "
     "its buttons")
self.autoHideFindDlgCheckBox.setChecked(
     Config["autohidefinddialog"])
self.backupLineEdit = QLineEdit(Config["backupsuffix"])
self.backupLineEdit.setToolTip("<p>If nonempty, a backup will be "
     "kept with the given suffix. If empty, no backup will be "
     "made.")
regex = QRegExp(r"[~.].*")
self.backupLineEdit.setValidator(QRegExpValidator(regex,
                                        self))
self.backupLineEdit.setFont(monofont)
backupLabel = QLabel("&Backup suffix:")
backupLabel.setBuddy(self.backupLineEdit)
regex = QRegExp(r"#.*")
self.inputLineEdit = QLineEdit(Config["beforeinput"])
self.inputLineEdit.setValidator(QRegExpValidator(regex,
                                        self))
self.inputLineEdit.setInputMask("\#" + "x" * 40)
self.inputLineEdit.setFont(monofont)
inputPromptLabel = QLabel("&Input Prompt:")
inputPromptLabel.setBuddy(self.inputLineEdit)
self.outputLineEdit = QLineEdit(Config["beforeoutput"])
self.outputLineEdit.setValidator(QRegExpValidator(regex,
                                        self))
self.outputLineEdit.setInputMask("\#" + "x" * 40)
self.outputLineEdit.setFont(monofont)
outputPromptLabel = QLabel("&Output Prompt:")
```

```
outputPromptLabel.setBuddy(self.outputLineEdit)
self.cwdLineEdit = QLineEdit(Config["cwd"])
cwdLabel = QLabel("Working &Directory:")
cwdLabel.setBuddy(self.cwdLineEdit)
self.showWindowInfoCheckBox = QCheckBox(
        "Show Window Information at Start&up")
self.showWindowInfoCheckBox.setToolTip("<p>Uncheck this to stop "
        "the `This window shows Python's output' messages")
self.showWindowInfoCheckBox.setChecked(Config["showwindowinfo"])
self.toolTipSizeSpinBox = QSpinBox()
self.toolTipSizeSpinBox.setAlignment(Qt.AlignVCenter|
                        Qt.AlignRight)
self.toolTipSizeSpinBox.setRange(20, MAX_TOOLTIP_LEN)
self.toolTipSizeSpinBox.setSuffix(" chars")
self.toolTipSizeSpinBox.setValue(Config["tooltipsize"])
tooltipSizeLabel = QLabel("Max. Tooltip &Length:")
tooltipSizeLabel.setBuddy(self.toolTipSizeSpinBox)
self.maxLinesSizeSpinBox = QSpinBox()
self.maxLinesSizeSpinBox.setAlignment(Qt.AlignVCenter|
                        Qt.AlignRight)
self.maxLinesSizeSpinBox.setRange(0, 10000)
self.maxLinesSizeSpinBox.setSuffix(" lines")
self.maxLinesSizeSpinBox.setValue(Config["maxlinestoscan"])
self.maxLinesSizeSpinBox.setToolTip("<p>The maximum lines to "
        "scan for function, method, and class names, and for "
        "imports when a file is loaded. This is used for "
        "setting up completions and tooltips and for the Goto "
        "class and Goto def submenus. It can be slow for large "
        "files.")
maxLinesSizeLabel = QLabel("&Max. Lines to Scan:")
maxLinesSizeLabel.setBuddy(self.maxLinesSizeSpinBox)
self.docPathLineEdit = QLineEdit(Config["pythondocpath"])
self.docPathLineEdit.setToolTip('<p>Enter your preferred location '
        '(web address or path on local hard drive) of Python '
        'documentation to be shown when selecting "Python '
        'Documentation" from the Help menu.')
docPathButton = QPushButton("...")
docPathButton.setToolTip("Open file dialog to choose path")
self.connect(docPathButton, SIGNAL("clicked()"),
            self.setDocPath)
docPathLabel = QLabel("P&ython Documentation:")
docPathLabel.setBuddy(self.docPathLineEdit)
minWidth = 0
for label in (backupLabel, inputPromptLabel, outputPromptLabel,
        cwdLabel, tooltipSizeLabel, maxLinesSizeLabel,
        docPathLabel):
    minWidth = max(minWidth, fm.width(label.text()))
for label in (backupLabel, inputPromptLabel, outputPromptLabel,
```

```
            cwdLabel, tooltipSizeLabel, maxLinesSizeLabel,
            docPathLabel):
        label.setMinimumWidth(minWidth)
    vbox = QVBoxLayout()
    vbox.addWidget(self.rememberGeometryCheckBox)
    hbox = QHBoxLayout()
    hbox.addWidget(self.editorWindowRadioButton)
    hbox.addWidget(self.shellWindowRadioButton)
    hbox.addStretch()
    vbox.addLayout(hbox)
    vbox.addWidget(self.autoHideFindDlgCheckBox)
    hbox = QHBoxLayout()
    hbox.addWidget(backupLabel)
    hbox.addWidget(self.backupLineEdit)
    hbox.addStretch()
    vbox.addLayout(hbox)
    hbox = QHBoxLayout()
    hbox.addWidget(inputPromptLabel)
    hbox.addWidget(self.inputLineEdit)
    hbox.addStretch()
    vbox.addLayout(hbox)
    hbox = QHBoxLayout()
    hbox.addWidget(outputPromptLabel)
    hbox.addWidget(self.outputLineEdit)
    hbox.addStretch()
    vbox.addLayout(hbox)
    hbox = QHBoxLayout()
    hbox.addWidget(cwdLabel)
    hbox.addWidget(self.cwdLineEdit)
    vbox.addLayout(hbox)
    vbox.addWidget(self.showWindowInfoCheckBox)
    hbox = QHBoxLayout()
    hbox.addWidget(tooltipSizeLabel)
    hbox.addWidget(self.toolTipSizeSpinBox)
    hbox.addStretch()
    vbox.addLayout(hbox)
    hbox = QHBoxLayout()
    hbox.addWidget(maxLinesSizeLabel)
    hbox.addWidget(self.maxLinesSizeSpinBox)
    hbox.addStretch()
    vbox.addLayout(hbox)
    hbox = QHBoxLayout()
    hbox.addWidget(docPathLabel)
    hbox.addWidget(self.docPathLineEdit)
    hbox.addWidget(docPathButton)
    vbox.addLayout(hbox)
    vbox.addStretch()
    generalWidget.setLayout(vbox)
```

```python
highlightingWidget = QWidget()
self.tabWidthSpinBox = QSpinBox()
self.tabWidthSpinBox.setAlignment(Qt.AlignVCenter|
                    Qt.AlignRight)
self.tabWidthSpinBox.setRange(2, 20)
self.tabWidthSpinBox.setSuffix(" spaces")
self.tabWidthSpinBox.setValue(Config["tabwidth"])
tabWidthLabel = QLabel("&Tab width:")
tabWidthLabel.setBuddy(self.tabWidthSpinBox)
self.fontComboBox = QFontComboBox()
self.fontComboBox.setCurrentFont(monofont)
fontLabel = QLabel("&Font:")
fontLabel.setBuddy(self.fontComboBox)
self.fontSpinBox = QSpinBox()
self.fontSpinBox.setAlignment(Qt.AlignVCenter|
                  Qt.AlignRight)
self.fontSpinBox.setRange(6, 20)
self.fontSpinBox.setSuffix(" pt")
self.fontSpinBox.setValue(Config["fontsize"])

vbox = QVBoxLayout()
hbox = QHBoxLayout()
hbox.addWidget(tabWidthLabel)
hbox.addWidget(self.tabWidthSpinBox)
hbox.addStretch()
vbox.addLayout(hbox)
hbox = QHBoxLayout()
hbox.addWidget(fontLabel)
hbox.addWidget(self.fontComboBox)
hbox.addWidget(self.fontSpinBox)
hbox.addStretch()
vbox.addLayout(hbox)

minWidth = 0
minButtonWidth = 0
count = 1
labels = []
buttons = []
for name, labelText in (("normal", "Normal:"),
        ("keyword", "Keywords:"), ("builtin", "Builtins:"),
        ("constant", "Constants:"), ("decorator", "Decorators:"),
        ("comment", "Comments:"), ("string", "Strings:"),
        ("number", "Numbers:"), ("error", "Errors:"),
        ("pyqt", "PyQt:")):
    label = QLabel(labelText)
    minWidth = max(minWidth, fm.width(label.text()))
    labels.append(label)
```

```python
            boldCheckBox = QCheckBox("Bold")
            boldCheckBox.setChecked(Config["%sfontbold" % name])
            self.boldCheckBoxes[name] = boldCheckBox
            italicCheckBox = QCheckBox("Italic")
            italicCheckBox.setChecked(Config["%sfontitalic" % name])
            self.italicCheckBoxes[name] = italicCheckBox
            self.colors[name] = [Config["%sfontcolor" % name], None]
            pixmap.fill(QColor(self.colors[name][0]))
            if count <= 9:
                colorButton = QPushButton("&%d Color..." % count)
                count += 1
            elif name == "pyqt":
                colorButton = QPushButton("&Q Color...")
            else:
                colorButton = QPushButton("Color...")
            minButtonWidth = max(minButtonWidth,
                    10 + pixmap.width() + fm.width(colorButton.text()))
            buttons.append(colorButton)
            colorButton.setIcon(QIcon(pixmap))
            self.colors[name][1] = colorButton
            hbox = QHBoxLayout()
            hbox.addWidget(label)
            hbox.addWidget(boldCheckBox)
            hbox.addWidget(italicCheckBox)
            hbox.addWidget(colorButton)
            hbox.addStretch()
            vbox.addLayout(hbox)
            self.connect(colorButton, SIGNAL("clicked()"),
                    lambda name=name: self.setColor(name))
        for label in labels:
            label.setMinimumWidth(minWidth)
        for button in buttons:
            button.setMinimumWidth(minButtonWidth)
        vbox.addStretch()
        highlightingWidget.setLayout(vbox)

        tabWidget = QTabWidget()
        tabWidget.addTab(generalWidget, "&General")
        tabWidget.addTab(highlightingWidget, "&Highlighting")

        for name, label, msg in (
                ("newfile", "On &New File",
                 "<font color=green><i>The text here is automatically "
                 "inserted into new files.<br>It may be convenient to add "
                 "your standard imports and copyright notice here."),
                ("shellstartup", "&At Startup",
                 "<font color=green><i>Sandbox executes the lines above "
                 "whenever the Python interpreter is started.<br>"
```

```python
                      "Use them to add convenience, e.g. "
                      "</i><b>from math import *; import re;</b> "
                      "<font color=green><i>etc.<br>"
                      "Changes made here only take "
                      "effect when Sandbox is next run."
                      "<hr><font color=red>The codecs and sys imports, "
                      "and the other codecs lines should<br>not be changed "
                      "unless you are an expert.</font>")):
            editor = TextEdit()
            editor.setPlainText(Config[name])
            editor.setTabChangesFocus(True)
            PythonHighlighter(editor.document())
            vbox = QVBoxLayout()
            vbox.addWidget(editor, 1)
            vbox.addWidget(QLabel(msg))
            widget = QWidget()
            widget.setLayout(vbox)
            tabWidget.addTab(widget, label)
            self.editors[name] = editor

        buttonBox = QDialogButtonBox(QDialogButtonBox.Ok|
                              QDialogButtonBox.Cancel)
        layout = QVBoxLayout()
        layout.addWidget(tabWidget)
        layout.addWidget(buttonBox)
        self.setLayout(layout)

        self.connect(buttonBox, SIGNAL("accepted()"), self.accept)
        self.connect(buttonBox, SIGNAL("rejected()"), self.reject)

        self.setWindowTitle("Sandbox - Configure")


    def updateUi(self):
        pass # TODO validation, e.g., valid shellstartup, etc.


    def setDocPath(self):
        path = QFileDialog.getOpenFileName(self,
                  "Sandbox - Open File", self.docPathLineEdit.text())
        if not path.isEmpty():
            self.docPathLineEdit.setText(path)


    def setColor(self, which):
        color = QColorDialog.getColor(
                  QColor(self.colors[which][0]), self)
        if color is not None:
```

```python
        self.colors[which][0] = color.name()
        pixmap = QPixmap(16, 16)
        pixmap.fill(QColor(color.name()))
        self.colors[which][1].setIcon(QIcon(pixmap))


    def accept(self):
        Config["remembergeometry"] = (self.rememberGeometryCheckBox
                        .isChecked())
        Config["showwindowinfo"] = self.showWindowInfoCheckBox.isChecked()
        Config["startwithshell"] = self.shellWindowRadioButton.isChecked()
        Config["autohidefinddialog"] = (self.autoHideFindDlgCheckBox
                        .isChecked())
        Config["backupsuffix"] = self.backupLineEdit.text()
        Config["beforeinput"] = self.inputLineEdit.text()
        Config["beforeoutput"] = self.outputLineEdit.text()
        Config["cwd"] = self.cwdLineEdit.text()
        for name in ("shellstartup", "newfile"):
            Config[name] = unicode(self.editors[name].toPlainText())
        Config["tabwidth"] = self.tabWidthSpinBox.value()
        Config["tooltipsize"] = self.toolTipSizeSpinBox.value()
        Config["maxlinestoscan"] = self.maxLinesSizeSpinBox.value()
        Config["pythondocpath"] = self.docPathLineEdit.text()
        family = self.fontComboBox.currentFont().family()
        if Config["fontfamily"] != family:
            self.highlightingChanged = True
            Config["fontfamily"] = family
        size = self.fontSpinBox.value()
        if Config["fontsize"] != size:
            self.highlightingChanged = True
            Config["fontsize"] = size
        for name in ("normal", "keyword", "builtin", "constant",
                "decorator", "comment", "string", "number", "error",
                "pyqt"):
            bold = self.boldCheckBoxes[name].isChecked()
            if Config["%sfontbold" % name] != bold:
                self.highlightingChanged = True
                Config["%sfontbold" % name] = bold
            italic = self.italicCheckBoxes[name].isChecked()
            if Config["%sfontitalic" % name] != italic:
                self.highlightingChanged = True
                Config["%sfontitalic" % name] = italic
            color = self.colors[name][0]
            if Config["%sfontcolor" % name] != color:
                self.highlightingChanged = True
                Config["%sfontcolor" % name] = color
        QDialog.accept(self)
```

```python
class MainWindow(QMainWindow):

    NextId = 1
    Instances = set()
    Shell = None
    Toolbars = {}

    def __init__(self, filename=QString(), isShell=False,
                 parent=None):
        super(MainWindow, self).__init__(parent)
        self.setAttribute(Qt.WA_DeleteOnClose)
        MainWindow.Instances.add(self)
        self.setWindowTitle("Sandbox[*]")
        if isShell:
            self.editor = ShellWidget()
            MainWindow.Shell = self
        else:
            self.editor = EditWidget()
        self.setCentralWidget(self.editor)

        fileNewAction = self.createAction("&New File", self.fileNew,
            QKeySequence.New, "filenew", "Create a Python file")
        if not isShell:
            fileNewShellAction = self.createAction("Sh&ell",
                self.fileNewShell, icon="filenew",
                tip="Create a new (or go to the existing) Shell")
        fileOpenAction = self.createAction("&Open...", self.fileOpen,
            QKeySequence.Open, "fileopen",
            "Open an existing Python file")
# TODO
#       fileOpenRecentAction = self.createAction("&Open Recent",
#           self.fileOpenRecent, icon="fileopen",
#           tip="Open an existing Python file")
        if not isShell:
            fileOpenAtAction = self.createAction(
                "Open &File at Cursor", self.fileOpenAt,
                "Ctrl+Shift+O", "fileopen",
                "Open the file whose name is at the cursor position")
            fileSaveAction = self.createAction("&Save", self.fileSave,
                QKeySequence.Save, "filesave", "Save the file")
            fileSaveAsAction = self.createAction("Save &As...",
                self.fileSaveAs, icon="filesaveas",
                tip="Save the file using a new filename")
        fileSaveAllAction = self.createAction("Save A&ll",
            self.fileSaveAll, icon="filesaveall",
            tip="Save all the files")
        fileConfigureAction = self.createAction("Config&ure...",
```

```python
        self.fileConfigure, icon="fileconfigure",
        tip="Configure Sandbox")
fileCloseAction = self.createAction("&Close", self.close,
        QKeySequence.Close, "fileclose",
        "Close this Python editor")
fileQuitAction = self.createAction("&Quit", self.fileQuit,
        "Ctrl+Q", "filequit", "Close the application")
editUndoAction = self.createAction("&Undo", self.editor.undo,
        QKeySequence.Undo, "editundo",
        "Undo the last editing action")
editRedoAction = self.createAction("&Redo", self.editor.redo,
        QKeySequence.Redo, "editredo",
        "Redo the last editing action")
editCopyAction = self.createAction("&Copy", self.editor.copy,
        QKeySequence.Copy, "editcopy",
        "Copy text to the clipboard")
editCutAction = self.createAction("Cu&t", self.editor.cut,
        QKeySequence.Cut, "editcut",
        "Cut text to the clipboard")
editPasteAction = self.createAction("&Paste",
        self.editor.paste, QKeySequence.Paste, "editpaste",
        "Paste in the clipboard's text")
editSelectAllAction = self.createAction("Select &All",
        self.editor.selectAll, QKeySequence.SelectAll,
        "editselectall", "Select all the editor's text")
editCompleteAction = self.createAction("Com&plete",
        self.editor.complete, "Ctrl+P", "editcomplete",
        "Complete the word (can also use Tab)")
if isShell:
    editClearOutputAction = self.createAction("Clear &Output",
            self.editor.clearOutput, icon="editclear",
            tip="Clear the output text")
else:
    editFindAction = self.createAction("&Find...",
            self.editor.findText, QKeySequence.Find,
            "editfind", "Find the given text")
    editFindNextAction = self.createAction("Find &Next",
            self.editor.findNext, QKeySequence.FindNext,
            "editfindnext",
            "Find the next occurrence of the given text")
    editFindWordAtAction = self.createAction(
            "Find &Word at Cursor", self.editor.findWordAt,
            "Shift+F3", "editfindnext",
            "Find the next occurrence of the word at the cursor")
    editReplaceNextAction = self.createAction("R&eplace Next",
            self.editor.replaceNext, QKeySequence.Replace,
            "editreplace",
            "Replace the next occurrence of the given text")
```

```python
editIndentRegionAction = self.createAction("&Indent Region",
    self.editor.indentRegion, "Ctrl+]", "editindent",
    "Indent the selected text or the current line")
editUnindentRegionAction = self.createAction(
    "Unin&dent Region", self.editor.unindentRegion,
    "Ctrl+[", "editunindent",
    "Unindent the selected text or the current line")
editCommentRegionAction = self.createAction("C&omment Region",
    self.editor.commentRegion, icon="editcomment",
    tip=("Comment out the selected text or the "
        "current line"))
editUncommentRegionAction = self.createAction(
    "Uncomment Re&gion", self.editor.uncommentRegion,
    icon="edituncomment",
    tip="Uncomment the selected text or the current line")
actionRunAction = self.createAction("E&xecute",
    self.editor.execute, None, "actionrun",
    "Execute the input window's code or run the current file")
actionRunAction.setShortcuts([QKeySequence("F5"),
    QKeySequence("Ctrl+Enter"),
    QKeySequence("Ctrl+Return")])
if not isShell:
    actionSetArgsAction = self.createAction("Set &arguments...",
        self.editor.setArgs, icon="actionsetargs",
        tip="Set the command line arguments")
    actionStopAction = self.createAction("&Stop",
        self.editor.stop, icon="actionstop",
        tip="Forcibly stop the application")
else:
    actionRestartAction = self.createAction("Restart &Python",
        self.editor.restartProcess, icon="actionrestart",
        tip="Stop the interpreter and start a new one")
    actionShowPrevAction = self.createAction(
        "Show Previous Command", self.editor.showPrevious,
        "Ctrl+Up", "previous",
        ("Show the previous command ready for editing "
            "and running"))
    actionShowNextAction = self.createAction(
        "Show Next Command", self.editor.showNext,
        "Ctrl+Down", "next",
        ("Show the next command ready for editing "
            "and running"))
helpHelpAction = self.createAction("&Help", self.helpHelp,
    QKeySequence.HelpContents, icon="helphelp",
    tip="Online help")
helpPydocAction = self.createAction("&Python Documentation",
    self.helpPydoc, "Ctrl+H", "docs",
    tip="Open Python Documentation in a Web Browser")
```

```python
helpAboutAction = self.createAction("&About", self.helpAbout,
    icon="icon", tip="About Sandbox")

fileMenu = self.menuBar().addMenu("&File")
self.addActions(fileMenu, (fileNewAction,))
if not isShell:
    self.addActions(fileMenu, (fileNewShellAction,))
self.addActions(fileMenu, (fileOpenAction,
    # fileOpenRecentAction # TODO
    ))
if not isShell:
    self.addActions(fileMenu, (fileOpenAtAction, fileSaveAction,
                    fileSaveAsAction))
self.addActions(fileMenu, (fileSaveAllAction, None,
    fileConfigureAction, None, fileCloseAction,
    fileQuitAction))
editMenu = self.menuBar().addMenu("&Edit")
self.addActions(editMenu, (editUndoAction, editRedoAction, None,
    editCopyAction, editCutAction, editPasteAction,
    editSelectAllAction, None, editCompleteAction))
if isShell:
    self.addActions(editMenu, (None, editClearOutputAction,))
else:
    self.addActions(editMenu, (None, editFindAction,
        editFindNextAction, editFindWordAtAction,
        editReplaceNextAction, None, editIndentRegionAction,
        editUnindentRegionAction, editCommentRegionAction,
        editUncommentRegionAction))
self.gotoMenu = self.menuBar().addMenu("&Goto")
self.connect(self.gotoMenu, SIGNAL("aboutToShow()"),
        self.updateGotoMenu)
actionMenu = self.menuBar().addMenu("&Action")
self.addActions(actionMenu, (actionRunAction,))
if not isShell:
    self.addActions(actionMenu, (actionSetArgsAction,
        actionStopAction))
else:
    self.addActions(actionMenu, (actionRestartAction, None,
        actionShowPrevAction, actionShowNextAction))
viewMenu = self.menuBar().addMenu("&View")
self.windowMenu = self.menuBar().addMenu("&Window")
self.connect(self.windowMenu, SIGNAL("aboutToShow()"),
        self.updateWindowMenu)
helpMenu = self.menuBar().addMenu("&Help")
self.addActions(helpMenu, (helpHelpAction, helpPydocAction,
                helpAboutAction))

self.fileToolbar = self.addToolBar("File Toolbar")
```

```python
self.fileToolbar.setObjectName("FileToolbar")
MainWindow.Toolbars[self.fileToolbar] = None
self.addActions(self.fileToolbar, (fileNewAction, fileOpenAction))
if not isShell:
    self.addActions(self.fileToolbar, (fileSaveAction,))
self.editToolbar = self.addToolBar("Edit Toolbar")
self.editToolbar.setObjectName("EditToolbar")
MainWindow.Toolbars[self.editToolbar] = None
self.addActions(self.editToolbar, (editUndoAction, editRedoAction,
        None, editCopyAction, editCutAction, editPasteAction))
if not isShell:
    self.addActions(self.editToolbar, (None, editFindAction,
            editFindNextAction, editReplaceNextAction, None,
            editIndentRegionAction, editUnindentRegionAction,
            editCommentRegionAction, editUncommentRegionAction))
self.actionToolbar = self.addToolBar("Action Toolbar")
self.actionToolbar.setObjectName("ActionToolbar")
MainWindow.Toolbars[self.actionToolbar] = None
self.addActions(self.actionToolbar, (actionRunAction,))
if not isShell:
    self.addActions(self.actionToolbar, (actionStopAction,))
else:
    self.addActions(self.actionToolbar, (actionRestartAction, None,
            actionShowPrevAction, actionShowNextAction))
for toolbar in (self.fileToolbar, self.editToolbar,
            self.actionToolbar):
    action = viewMenu.addAction("&%s" % toolbar.windowTitle())
    self.connect(action, SIGNAL("toggled(bool)"),
            self.toggleToolbars)
    action.setCheckable(True)
    MainWindow.Toolbars[toolbar] = action


self.connect(self, SIGNAL("destroyed(QObject*)"),
        MainWindow.updateInstances)


if not isShell:
    status = self.statusBar()
    status.setSizeGripEnabled(False)
    status.showMessage("Ready", 5000)
    self.columnCountLabel = QLabel("(empty)")
    status.addPermanentWidget(self.columnCountLabel)
    self.lineCountLabel = QLabel("(empty)")
    status.addPermanentWidget(self.lineCountLabel)
    self.connect(self.editor,
            SIGNAL("cursorPositionChanged()"),
            self.updateIndicators)
    self.connect(self.editor.document(),
            SIGNAL("blockCountChanged(int)"),
```

```
                    self.updateIndicators)

        if Config["remembergeometry"]:
            if isShell:
                self.resize(Config["shellwidth"], Config["shellheight"])
                self.move(Config["shellx"], Config["shelly"])
            else:
                self.resize(Config["windowwidth"],
                        Config["windowheight"])
                if int(isShell) + len(MainWindow.Instances) <= 2:
                    self.move(Config["windowx"], Config["windowy"])


        self.restoreState(Config["toolbars"])
        self.filename = QString(".")
        if isShell:
            self.editor.restoreState(Config["splitter"])
            self.setWindowTitle("Sandbox - Shell")
        else:
            self.filename = filename
            if self.filename.isEmpty():
                self.filename = QString("unnamed%d.py" %
                            MainWindow.NextId)
                MainWindow.NextId += 1
                self.editor.setText(Config["newfile"])
                self.editor.moveCursor(QTextCursor.End)
                self.editor.document().setModified(False)
                self.setWindowModified(False)
                self.setWindowTitle("Sandbox - %s[*]" % self.filename)
            else:
                self.loadFile()
            self.connect(self.editor, SIGNAL("textChanged()"),
                        self.updateDirty)
        self.updateGotoMenu()
        QTimer.singleShot(0, self.updateToolbars)



    @staticmethod
    def updateInstances(qobj):
        MainWindow.Instances = set([window for window
            in MainWindow.Instances if isAlive(window)])
        if MainWindow.Shell is not None and not isAlive(MainWindow.Shell):
            MainWindow.Shell = None



    def createAction(self, text, slot=None, shortcut=None, icon=None,
                tip=None, checkable=False, signal="triggered()"):
        action = QAction(text, self)
        if icon is not None:
```

```python
            action.setIcon(getIcon("%s.png" % icon))
        if shortcut is not None:
            action.setShortcut(shortcut)
        if tip is not None:
            action.setToolTip(tip)
            action.setStatusTip(tip)
        if slot is not None:
            self.connect(action, SIGNAL(signal), slot)
        if checkable:
            action.setCheckable(True)
        return action


    def addActions(self, target, actions):
        for action in actions:
            if action is None:
                target.addSeparator()
            else:
                target.addAction(action)


    def updateDirty(self):
        self.setWindowModified(self.editor.document().isModified())


    def updateIndicators(self):
        lines = self.editor.document().blockCount()
        cursor = self.editor.textCursor()
        self.columnCountLabel.setText("Column %d" % (
            cursor.columnNumber() + 1))
        if lines == 0:
            text = "(empty)"
        else:
            text = "Line %d of %d" % (cursor.blockNumber() + 1, lines)
        self.lineCountLabel.setText(text)


    def updateToolbars(self):
        for toolbar, action in MainWindow.Toolbars.items():
            action.setChecked(toolbar.isVisible())


    def toggleToolbars(self, on):
        title = self.sender().text()
        for toolbar, action in MainWindow.Toolbars.items():
            if action.text() == title:
                toolbar.setVisible(on)
                action.setChecked(on)
```

```python
def closeEvent(self, event):
    if self == MainWindow.Shell:
        self.editor.endProcess()
        if Config["remembergeometry"]:
            Config["shellwidth"] = self.width()
            Config["shellheight"] = self.height()
            Config["shellx"] = self.x()
            Config["shelly"] = self.y()
        Config["splitter"] = self.editor.saveState()
    else:
        if self.editor.document().isModified():
            reply = QMessageBox.question(self,
                    "Sandbox - Unsaved Changes",
                    "Save unsaved changes in %s" % self.filename,
                    QMessageBox.Save|QMessageBox.Discard|
                    QMessageBox.Cancel)
            if reply == QMessageBox.Save:
                self.fileSave()
            elif reply == QMessageBox.Cancel:
                event.ignore()
                return
            # else accept and discard
        if Config["remembergeometry"]:
            Config["windowwidth"] = self.width()
            Config["windowheight"] = self.height()
            Config["windowx"] = self.x()
            Config["windowy"] = self.y()
        if self.editor.findForm is not None:
            Config["findcasesensitive"] = (self.editor.findForm
                    .caseSensitiveCheckBox.isChecked())
            Config["findwholewords"] = (self.editor.findForm
                    .wholeWordsCheckBox.isChecked())
    Config["toolbars"] = self.saveState()
    del MainWindow.Toolbars[self.fileToolbar]
    del MainWindow.Toolbars[self.editToolbar]
    del MainWindow.Toolbars[self.actionToolbar]
    event.accept()


def fileConfigure(self):
    form = ConfigForm(self)
    if form.exec_():
        # Should only do this if the highlighting was actually
        # changed since it is computationally expensive.
        if form.highlightingChanged:
            font = QFont(Config["fontfamily"],
```

```python
                    Config["fontsize"])
            textcharformat = QTextCharFormat()
            textcharformat.setFont(font)
            PythonHighlighter.initializeFormats()
            for window in MainWindow.Instances:
                if isAlive(window):
                    if window == MainWindow.Shell:
                        window.editor.input.setFont(font)
                        window.editor.input.textcharformat = (
                            textcharformat)
                        window.editor.inputHighlighter.rehighlight()
                        window.editor.output.setFont(font)
                        window.editor.output.textcharformat = (
                            textcharformat)
                        window.editor.outputHighlighter.rehighlight()
                    else:
                        window.statusBar().showMessage(
                            "Rehighlighting...")
                        window.editor.setFont(font)
                        window.editor.textcharformat = textcharformat
                        window.editor.highlighter.rehighlight()
                        window.statusBar().clearMessage()
        saveConfig()


    def fileQuit(self):
        QApplication.closeAllWindows()
        shell = MainWindow.Shell
        if shell is not None:
            shell.editor.endProcess()


    def fileNew(self):
        MainWindow().show()


    def fileNewShell(self):
        if MainWindow.Shell is not None and isAlive(MainWindow.Shell):
            MainWindow.Shell.activateWindow()
            MainWindow.Shell.raise_()
        else:
            MainWindow(isShell=True).show()


    def fileOpen(self):
        if not self.filename.isEmpty():
            path = QFileInfo(self.filename).path()
        else:
```

```python
        path = "."
    filename = QFileDialog.getOpenFileName(self,
            "Sandbox - Open File", path,
            "Python files (*.py *.pyw)\nAny file (*)")
    if not filename.isEmpty():
        # To prevent opening the same file twice
        for window in MainWindow.Instances:
            if isAlive(window) and window != MainWindow.Shell:
                if window.filename == filename:
                    window.activateWindow()
                    window.raise_()
                    return
        if (MainWindow.Shell != self and
            not self.editor.document().isModified() and
            self.filename.startsWith("unnamed")):
            self.filename = filename
            self.loadFile()
        else:
            MainWindow(filename).show()


def loadFile(self):
    # File loading is slow due to reading CAT data and highlighting,
    # but mostly due to the former. If you load one PyQt4 app, it
    # will be slow, but subsequent ones will be quick becaue all the
    # CAT data will have been gathered already.
    QApplication.setOverrideCursor(QCursor(
                            Qt.WaitCursor))
    fh = None
    try:
        try:
            fh = QFile(self.filename)
            if not fh.open(QIODevice.ReadOnly):
                raise IOError, unicode(fh.errorString())
            stream = QTextStream(fh)
            stream.setCodec("UTF-8")
            text = stream.readAll()
            self.editor.setPlainText(text)
            self.editor.document().setModified(False)
            # Get function, method, and class names for completion;
            # get imports for CAT.
            for i, line in enumerate(text.split("\n")): # This is slow!
                if i >= Config["maxlinestoscan"]:
                    break
                if CATABLE_LINE_RE.indexIn(line) > -1:
                    uline = unicode(line)
                    checkForCAT(uline)
                    self.editor.checkForClassOrDef(uline)
```

```python
        except (IOError, OSError), e:
            QMessageBox.warning(self, "Sandbox - Load Error",
                    "Failed to load %s: %s" % (self.filename, e))
    finally:
        if fh is not None:
            fh.close()
        QApplication.restoreOverrideCursor()
    self.editor.document().setModified(False)
    self.setWindowModified(False)
    self.setWindowTitle("Sandbox - %s[*]" %
                QFileInfo(self.filename).fileName())


def fileOpenRecent(self):
    print "fileOpenRecent" # TODO


def fileOpenAt(self):
    filename = self.editor.currentWord()
    if filename in ("py", "pyw"):
        cursor = self.editor.textCursor()
        cursor.movePosition(QTextCursor.PreviousWord)
        filename = self.editor.currentWord(cursor) + "." + filename
    if filename.isEmpty():
        return
    filename = unicode(filename)
    dir = os.path.dirname(unicode(QDir(
                        self.filename).absolutePath()))
    candidates = [filename, os.path.join(dir, filename)]
    if not filename.endswith((".py", ".pyw")):
        filename += ".py"
        candidates.append(filename)
        candidates.append(os.path.join(dir, filename))
    for path in sys.path:
        candidates.append(os.path.join(path, filename))
    for candidate in candidates:
        if QFile.exists(candidate):
            QApplication.setOverrideCursor(QCursor(
                            Qt.WaitCursor))
            MainWindow(QString(candidate)).show()
            QApplication.restoreOverrideCursor()
            break
    else:
        self.statusBar().showMessage("'%s' not found" % filename,
                    TIMEOUT)


def fileSave(self):
```

```python
        if self.filename.startsWith("unnamed"):
            return self.fileSaveAs()
        if (not Config["backupsuffix"].isEmpty() and
            QFile.exists(self.filename)):
            backup = self.filename + Config["backupsuffix"]
            ok = True
            if QFile.exists(backup):
                ok = QFile.remove(backup)
                if not ok:
                    QMessageBox.information(self,
                            "Sandbox - Save Warning",
                            "Failed to remove the old backup %s")
            if ok:
                # Must use copy rather than rename to preserve file
                # permissions; could use rename on Windows though
                if not QFile.copy(self.filename, backup):
                    QMessageBox.information(self,
                            "Sandbox - Save Warning",
                            "Failed to save a backup %s")
        fh = None
        try:
            try:
                fh = QFile(self.filename)
                if not fh.open(QIODevice.WriteOnly):
                    raise IOError, unicode(fh.errorString())
                stream = QTextStream(fh)
                stream.setCodec("UTF-8")
                stream << self.editor.toPlainText()
                self.editor.document().setModified(False)
                self.setWindowModified(False)
                self.setWindowTitle("Sandbox - %s[*]" %
                        QFileInfo(self.filename).fileName())
                self.statusBar().showMessage("Saved %s" % self.filename,
                        TIMEOUT)
            except (IOError, OSError), e:
                QMessageBox.warning(self, "Sandbox - Save Error",
                        "Failed to save %s: %s" % (self.filename, e))
        finally:
            if fh is not None:
                fh.close()
        return True


    def fileSaveAs(self):
        filename = QFileDialog.getSaveFileName(self,
                    "Sandbox - Save File As",
                    self.filename, "Python files (*.py *.pyw)")
        if not filename.isEmpty():
```

```python
        self.filename = filename
        return self.fileSave()
    return False


def fileSaveAll(self):
    count = 0
    for window in MainWindow.Instances:
        if (isAlive(window) and window != MainWindow.Shell and
            window.editor.document().isModified()):
            if window.fileSave():
                count += 1
    self.statusBar().showMessage("Saved %d of %d files" % (
        count, len(MainWindow.Instances) -
            int(MainWindow.Shell is not None)), 5000)


def updateGotoMenu(self):
    self.gotoMenu.clear()
    isShell = self == MainWindow.Shell
    self.gotoMenu.addAction(self.createAction("&Matching",
        self.editor.gotoMatching, "Ctrl+M", "gotomatching",
        "Move the cursor to the matching parenthesis"))
    if not isShell:
        self.gotoMenu.addAction(self.createAction("&Line...",
            self.editor.gotoLine, "Ctrl+L", "gotoline",
            "Move the cursor to the given line"))
        self.gotoMenu.addAction(self.createAction(
            "&Previous position", self.editor.gotoPrevious,
            "Ctrl+Up", "previous", "Move the cursor to the "
            "previous line in the line history"))
        self.gotoMenu.addAction(self.createAction(
            "&Next position", self.editor.gotoNext,
            "Ctrl+Down", "next", "Move the cursor to the "
            "next line in the line history"))
        if self.editor.classes or self.editor.defs:
            self.gotoMenu.addSeparator()
            if self.editor.classes:
                i = 1
                classMenu = self.gotoMenu.addMenu(
                    getIcon("forward.png"), "&class")
                for text in sorted(self.editor.classes,
                        key=unicode.lower):
                    action = classMenu.addAction(text,
                        self.gotoClassOrDef)
                    accel = ""
                    if i < 10:
                        accel = "&%d " % i
```

```python
                    elif i < 36:
                        accel = "&%c " % chr(i + ord("@") - 9)
                    action.setText("%s%s" % (accel, text))
                    action.setToolTip(text) # Stash class name
                    action.setData(QVariant(0))
                    action.setIcon(getIcon("forward.png"))
                    i += 1
            if self.editor.defs:
                i = 1
                defMenu = self.gotoMenu.addMenu(getIcon("forward.png"),
                                "&def")
                for text in sorted(self.editor.defs,
                            key=unicode.lower):
                    action = defMenu.addAction(text,
                                    self.gotoClassOrDef)
                    accel = ""
                    if i < 10:
                        accel = "&%d " % i
                    elif i < 36:
                        accel = "&%c " % chr(i + ord("@") - 9)
                    action.setText("%s%s" % (accel, text))
                    action.setToolTip(text) # Stash def name
                    action.setData(QVariant(1))
                    action.setIcon(getIcon("forward.png"))
                    i += 1


    def gotoClassOrDef(self):
        action = self.sender()
        if not isinstance(action, QAction):
            return
        if action.data().toInt()[0] == 0:
            text = "class "
        else:
            text = "def "
        text += action.toolTip() # Retrieve class or def name
        if not self.editor.find(text,
                    QTextDocument.FindCaseSensitively):
            if not self.editor.find(text,
                QTextDocument.FindCaseSensitively|
                QTextDocument.FindBackward):
                self.statusBar().showMessage("'%s' not found" % text,
                            TIMEOUT)
            if text.startsWith("def"):
                self.editor.defs.discard(unicode(action.toolTip()))
            else:
                self.editor.classes.discard(unicode(action.toolTip()))
```

```python
def updateWindowMenu(self):
    self.windowMenu.clear()
    shell = MainWindow.Shell
    if shell is not None and isAlive(shell):
        action = self.windowMenu.addAction("&Shell", self.raiseWindow)
        action.setData(QVariant(long(id(shell))))
        action.setIcon(getIcon("icon.png"))
    if (hasattr(self.editor, "results") and
        self.editor.results is not None and
        self.editor.results.isVisible()):
        action = self.windowMenu.addAction("&Results",
            self.editor.raiseResultsWindow)
        action.setIcon(getIcon("window.png"))
    i = 1
    menu = self.windowMenu
    for window in MainWindow.Instances:
        if window != shell and isAlive(window):
            text = (window.windowTitle().replace("Sandbox - ", "")
                        .replace("[*]", ""))
            if i == 10:
                self.windowMenu.addSeparator()
                menu = menu.addMenu("&More")
            accel = ""
            if i < 10:
                accel = "&%d " % i
            elif i < 36:
                accel = "&%c " % chr(i + ord("@") - 9)
            text = "%s%s" % (accel, text)
            i += 1
            action = menu.addAction(text, self.raiseWindow)
            action.setData(QVariant(long(id(window))))
            action.setIcon(getIcon("window.png"))


def raiseWindow(self):
    action = self.sender()
    if not isinstance(action, QAction):
        return
    windowId = action.data().toLongLong()[0]
    for window in MainWindow.Instances:
        if isAlive(window) and id(window) == windowId:
            window.activateWindow()
            window.raise_()
            break


def helpHelp(self):
```

```python
        HelpForm(self).show()


    def helpPydoc(self):
        if not QDesktopServices.openUrl(
                QUrl(Config["pythondocpath"])):
            QMessageBox.warning(self, "Sandbox - Error",
                        "Could not start web browser")
    def helpAbout(self):
        iconLabel = QLabel()
        icon = getPixmap("icon.png")
        iconLabel.setPixmap(icon)
        nameLabel = QLabel("<font size=8 color=#A0A000> "
                    "<b>Sandbox</b></font>")
        versionLabel = QLabel("<font color=#A0A000>"
            "Python %s on %s<br>PyQt %s - Qt %s<br>"
            "Sandbox %s</font>" % (
            sys.version[:sys.version.find(" ")], sys.platform,
            PYQT_VERSION_STR, QT_VERSION_STR,
            __version__))
        aboutLabel = QTextBrowser()
        aboutLabel.setOpenExternalLinks(True)
        aboutLabel.setHtml("""\
Sandbox provides facilities for learning and experimenting with Python,
and for creating and editing Python files. It is designed to be easy to
learn and use, and to provide a PyQt-based alternative to IDLE.
(If you need a full-featured IDE, with support for debugging, we suggest
you use <a href="http://www.die-offenbachs.de/eric/index.html">eric4</a>.)
<p>
Sandbox's home is at <a href="http://www.qtrac.eu">www.qtrac.eu</a>.
<p>
If you want to learn more about Python GUI programming with PyQt (the
GUI library used by Sandbox), you might like to buy my book, <i>Rapid GUI
Programming with Python and Qt</i>, ISBN: 0132354187.
<p>
I hope you find it useful!<p>--<br><i>Mark Summerfield,</i>
mark@qtrac.eu""")
        thanksLabel = QTextBrowser()
        thanksLabel.setOpenExternalLinks(True)
        thanksLabel.setHtml("""<ul>
<li>David Boddie
<li>Phil Thompson
<li>Shriramana Sharma
<li>Benno Dielmann
<li>Christophe Kib
<li>Gerald Senarclens de Grancy
<li><a href="http://www.kde.org">KDE</a>, from whom I got most of the icons
</ul>""")
```

```
licenseLabel = QTextBrowser()
licenseLabel.setOpenExternalLinks(True)
licenseLabel.setHtml((__license__.replace("\n\n", "<p>")
                        .replace("(c)", "&copy;")))
changesLabel = QTextBrowser()
changesLabel.setOpenExternalLinks(True)
changesLabel.setHtml(u"""\
```


0.9.9 Updated with David Boddie's patch to account for a
change in PyQt's behavior
0.9.8 Fixed a bug in the syntax highlighting.
0.9.7 Changed the import style. Fixed a syntax highlighting
bug reported by Gerald Senarclens de Grancy.
0.9.6 Minor code tidying up. Now GPL 2 or 3 or later.
0.9.5 No changes; done due to a problem with PyPI.
0.9.4 Added the ability to open the Python Documentation in
a web browser: all the relevant code was provided by Benno Dielmann.
Also optimized the comment highlighting slightly.
0.9.3 Improved the syntax highlighting for comments at the
cost of a little speed.
0.9.2 The input is no longer executed when Enter is pressed
on a blank line; this makes it possible to enter blank lines for the
sake of neatness. To execute, press F5 or Ctrl+Enter or Ctrl+Return. This
change was suggested by Benno Dielmann, who also provided bug fixes for
the command history and for the Find dialog's Close button.
0.9.1 Changed to GPL 2 since GPL 3 isn't compatible with the
GPL 2 libraries that Sandbox depends on; now any file can be opened with
file open.
0.9.0 You can now execute files (and set their command line
arguments), and stop them if necessary. The Find dialog now remembers
previous find and replace texts.
0.8.1 Removed Todo tab; now keep todos as comments at the
end. Improved completion behaviour.
0.8.0 Improved Goto submenus and Window menu and submenu.
Implemented Find Word at Cursor.
0.7.2 Changed a couple of default values. Implemented Open File
at Cursor.
0.7.1 Fixed subtle bug in Goto class and def regex. If a class
or def is not found (i.e., it has been deleted or renamed), it is now
removed from the Goto menu.
0.7.0 Implemented Goto menu, including Goto class and Goto
def submenus. Fixed subtle bug in Goto Matching.
0.6.3 Added key bindings to online help. Improved Goto Matching
and completions. Implemented Ctrl+\N{UPWARDS ARROW} and
Ctrl+\N{DOWNWARDS ARROW} to move to the previous and next lines in the line
history. Switched off line wrapping for the input window and for editors.
0.6.2 Added Changes tab to the about box. The shell now uses the
Python executable in <tt>sys.executable</tt>, i.e., the Python that was

```python
used to run Sandbox. (This is useful for those with multiple Pythons
installed.)
</ul>
""")
    tabWidget = QTabWidget()
    tabWidget.addTab(aboutLabel, "&About")
    tabWidget.addTab(thanksLabel, "&Thanks to")
    tabWidget.addTab(licenseLabel, "&License")
    tabWidget.addTab(changesLabel, "&Changes")
    okButton = QPushButton("OK")

    layout = QVBoxLayout()
    hbox = QHBoxLayout()
    hbox.addWidget(iconLabel)
    hbox.addWidget(nameLabel)
    hbox.addStretch()
    hbox.addWidget(versionLabel)
    layout.addLayout(hbox)
    layout.addWidget(tabWidget)
    hbox = QHBoxLayout()
    hbox.addStretch()
    hbox.addWidget(okButton)
    hbox.addStretch()
    layout.addLayout(hbox)

    dialog = QDialog(self)
    dialog.setLayout(layout)
    dialog.setMinimumSize(
        min(self.width(),
            int(QApplication.desktop().availableGeometry()
                .width() / 2)),
            int(QApplication.desktop().availableGeometry()
                .height() / 2))
    self.connect(okButton, SIGNAL("clicked()"), dialog.accept)
    dialog.setWindowTitle("Sandbox - About")
    dialog.exec_()


ICONS["actionrestart.png"] = """\
iVBORw0KGgoAAAANSUhEUgAAACAAAAAgEAYAAAAj6qa3AAAABmJLR0T///////8JWPfcAAAA\
CXBIWXMAAABIAAAASABGyWs+AAAACXZwQWcAAAAgAAAAIACH+pydAAAAHDElEQVRo3s1ZS2zT\
WBQ9z7HruIlLaWgpLczQgfJRQOAjoigISSAiBhIRYjBASLGYxC8QMGGzazGLEYaXZsWCOEkJAq\
kECVEKAuKIINUP7iUwqEFsin00/apnU+tvNm8fSw49hJ2gRmjhjhQl8bNf3jn33nfvuyH4H4RtC0\
bFbXKKZ2cnJ3NZoEvXXiYnNQ2YmEilslkkgmWTXOfx+SRIEoKKFBUSQJaG1tbFQUoK2tqSkQAJYs\
aWhQFEJqvc6aTcgJX7364MHICNb+364MHICNq++aTcgYYqmYfBP9h9F2PRDw+0UR\
6O4Oh3/4ATh5cv/+cLh2goiEuDcuf7+SAS4fPn+/Y8fgbo6n48n48QoLlZVevqgHg8mUynAUoN\
w255TtSCzyfaVjU3l8kYBtDX9/DhmzdAJPL5cyLBPCmToTQUUUlW/f+FCCCNUS55a/d29wcHTU\
un7x4vHj3d3d3ApUsnTuzYAaZZs2YAezZs2HD0qwWVzOguxDTtgn34EI2OjwO9PVrr4GAqqTTuxp\
""")
```

Mouk05bFly8PhYJBQurrZVmSCFm7tq2tsbEU0WIhCj2lEENDw8OxWPUC1CwEOGKx8fFUCvjz\
z56eR48o5cTPn+/vHxyshLg7CMnnTRPI501T11lo6Pr/SIBczjQptb739T179umTFbuAzyfL\
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z0dGkklgYCASSYBTctkMhnrvrNnb958/br4edPU9Vyu+LrPJwhsPJ8HgEyGCea0uDdhw2Dz\
5vOGAVCayQwOUgrMzt6543a/JK1aBRCyaNGePcXZokgATvyPP3p6nj4FHjx4925szBq38rb9\
SiH1hWxuC09k2eznzwAwM3PrVqFQdgEpHRk5dYpSoL399GmAEFFUVUKKBPjrr6tXX7ywiJcn\
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t7x7yc12JQDQtNFRgNK5ueFhSr8K8OpVNDo97Ua4Urhbev7ES0OSRFEQgL17u7o6OwFCZmev\
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Wbie0gJnsyyL6XosZhMgkZietqe3hW5qoVAwKMvAzp2bbnNNV0AB0doZDfb43ruiAoCiCKhjE3\
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aAgEFAVIJCYmUim3CXgpWyjE6tXt7c3NFnFVzeXOnGEEotHHSC+JZwivtld7UyhF1Wtyal/0e\
K8m+psF161pbA4FChQrTmNMDmOWPHdu1a+1aQFVN88qUsQ5Yf7uBWce94LT8k4LO787UV+/\
Zo1NgHB4xYqmpvkozdDV1dm5eDEA5HKFFm5GTePH1dNpO2KuAcRL2Iu5lcV1n8/B3UWQNl2Aw\
HLYJ0NXV2bl0KSBJhQWGM51Rqut2ZSVJEHilxYgaBnu+HHFFZVhS38UpdvpzFOWWd3+XdNYYRtmwB\
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DmzZwpqQK1YUTuO2EF3P530+NNptNoqWPHVxTohzmWzd4EedYtuznn22rdj7+228H\
DmzZwpqQK1YUTuO2EF3P530+94UzgThRL8JWrV64q/P3SmObb25OCAJbX1vb0aMIU1NO3ZY\
R6+iw1BDQ329LFs3vHsXjjU5U5MUBqJxOOTk8XTNzYqCjvgplLzq8054ZaWgwcBfmyllBBdBwJ\
5cSS3YpylSohjLiirFkDEBIIrFxZfxZfOasuq1MqWGkUpQCicSvvwJWnhZFSWJES29uktTezha8\
aJHbL3BPcNq3vp6Vwh0dv/++8MN01R2hfD6f13VAEJwhjUo44B0+bpsm6vOXSSV21RdVfYTrCu\
zo1wuXSSmae6FFw+N9esvXAAAVd29mwlUWV/gOwkgCILAXL0c5lu4tLQcOcJit7OTEGD58mPH\
7OOiWNhm/48E4K0lQJI2bwa8Le6EV+HC8c8/166xnl80SikQj/f02MebmrZtq16Amv03aJq5\
3OQkpYIYj//9NwDMDzDx96nZnZuRjn6Kq6/lmy3ZmsAG/tt0mvZUY40Zl6rtyprm6aH7wYZWVw+Ha/PwYIERVw+Ha/NwQ\
K8BkORyyh9i3wb9Lst+5aMY+2QAAAABJRU5ErkJggg==\
"""

ICONS["actionrun.png"] = """\
iVBORw0KGgoAAAANSUhEUgAAACAAAAAgCAYAAABzenr0AAAABmJLR0QA/wD/AP+gvaeTAAAA\
CXBIWXMAAAsNAAALDQHtB8AsAAAAB3RJTUUH0woJEyEM9I/X6wAABbpJREFUeNrFl9tvHNUd\
xz9zzs7sru2sL3GaBAJKGlIcT8sDSSipuAgUiRDxyB0sGon0CeWFJ/oPUIk+ACtC0/JS\
HlraBx4KKC2Iq/AG2wpEiEUJwVknvuza2d2Zk5pw87613bu76pEkf6aqRz+31/v/ndvzE\
w1jP5qGTo7tBHwU1CAyiVcMdegytxlD+OZuzWUCl02n9fyEwdHL0KdHhuhwgAJhguhUNygX\
QrfxyCeo4C1bv3EG8NPptNoQgaGTowcxcxxMto9RuEBKsLrB6seJIdqXl+vT0PQNGFFFDy7txHEr\
4E2BOwoaGNTowcxcxxMto9RuEBKsLrB6seJIdqXl+vT0PQNGFFFDy7txHEr\
4E2BOwoaB7RD6L5g85c/A24zIsYqWWp8BILknQ2MLz9wxxYYGbOrh1exsJSyw7MzHt8dk3c3x0\
Eb68ZELpcnUhrPZD5s1ngfl0Oh2sSmBBuIxD6lYePfjgjDx3qpbsj1tJaeslVH40XeO2cybXJ\
SQiKoPwwW5+5D5hqtIRsKTzKWxo4dfbxwf5F7f9WDGEipYYlIV6Egd44R/ZCvhhwacoAHW7N\
6f2/6Gf0n7ZtB5lMRi8jMDY4mClEMi8jMTWxo4dfbxwf5F7f9WDGEipYYlIV6Egd44R/ZCvhhwacoAHW7N\
6f2/6Gf0n7ZtB5lMRi8jMDY4mClEMi8jMTWxo4dfbxwf5F7f9WDGEipYYlIV6Egd44R/ZCvhhwacoAHW7N\
bduu1F1ZqydBsrV3E3t3tlNyVVUsAnDrexxvhwTkwTJCJE0AXYYAqAod99uRu4\
i8RmfrtnhiCEshe2RG2cOt7HhUvlFfeWvZC5UsD3uTIaCYnYNYMjBEe/BfUCi5gNHAbB66E3N\
U3LLmv/vqeN9vPJOji1d5rK1yVmXH2YNPp8Yqji1d5rK1yVmXH2YNPp8Yqji1d5rK1yVmXH2YNPp8Yqji1d5rK1yVmXH2YNPp8Yqji1d5rK1yVmXH2YNPp8Yqji1d5rK1yVmXH2YNPp8Yqji1d5rK1yVmXH2YNPp8Yqji1d5rK1yVmXH2YNPp8Yqji1d5rK1yVmXH2YNPp8Yqji1d5rK1yVmXH2YNPp8Yqji1d5rK1yVmXH2YNPp8Yqji1d5rK1yVmXH2YNPp8Yqji1d5xWtd8kTdAsol7ySIiXrimSzWdy7VqtU48ocVan+NSFBamIstNBOhe7jgxQl084Kz\

yfKrPDWAuW7hADEBfki1VGs/C6hYlITGMCQlJ8CUsrbVTmxYc7Oh4jhuJSrRXhaJX5Wm/HNI\
CZUZhOhbdwSsprls5F6Zib75DEncGIDN2ewIz32CM3WnafQSk60vyzvmqsK7k37Ts0EIOFOg\
gnE7+e/LgFOzt0IFbyG4c74wzc0D7S0JdCccIAXAE6/Mc1P32i2VnShV/39QfA9JCXAkQCaT\
4diQMZ4T9j2BV9ze252iKxmSiDXHA3Ybv399uuV6MzieInf1SlV7469/BK4BhUaP8wnd08jk\
h9nLExz+5c8wZfOu+sWzV9kUX7vmfmiQvTwVJZPcq8QpAIVF/UAmk9HH7Fgup2/Lh0rcP13w\
2NNvYZkSUxobhiDg47E8ZdeHSv5l23znAyAHFNLpdLg0tgKbs68ROqdvlCu8P5LH9xziptgQ\
fM/h/ZE8N8qVqnD59t8j0+eBYFlPmMlksG077Gd0NKf3z/lK3vvthIuvBDs2C8yYICZYFYYO\
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0Gd2do4LVwU/TJbxfAUqGMfNvWrH3z0faX4dKDe25S3LREQiAXSP6EefRiZOYMjB2nrSgt7O\
qg9PzwU4lYbDKhgnKL5ny7/9K3K26cjsy15HKz7NhoeHjahetANdI96D+zA7DyGsvQhzD1rX\
z2s/S+hlqeQzUZIpAXMRgRIQNHusrulxGlnDjCySjJCI5sRCMqu22i7gRHBXe5z+D3h+SN5D\
x4wyAAAAAElFTkSuQmCC\
"""

ICONS["actionsetargs.png"] = """\
iVBORw0KGgoAAAANSUhEUgAAACAAAAAgCAYAAABzenr0AAAABHNCSVQICAgIfAhkiAAAABl0\
RVh0U29mdHdhcmUAd3d3Lmlua3NjYXBlLm9yZ5vuPBoAAASRSURBVFiFtZfNixxFGIeft7q6\
e6Zn52M3LAl4MBjUm5FIbvHjX8gxf4CCB88J4kFB1BWiCJ4UBD2LOehBzNW4iRjIQkSMIWRR\
Me5G153J7Md0Vb0euucrbrI9ktQwXUXRvL/n/b1V1d2iqlRt6t6WfxKURRURBRURBRMMSMIWRR\
kUZyp9/7qvfK1rtVY9qqlkYt6WfxKUReFBURBRMMBiMxViwx\
kUZyp9/7qvfK1rtVY9qqN8af2sbJJyc/OH309GGJi2EgJKwOPwOBxOHB7PhZzvfPtN+s+n6rENVUBEBaPHTThWr0mNoAGnObnm5DogDwNcyMnDdgMLh2vvAo1XDVnZAgaCBQRjgcHgCjnzU\
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ZF/ugOGMllt6UVJVJVAoHBwAo5/1qXS\
vgdz+k7n/bnXRYEAIEgAPHThwWr0mNoAGnObnm5DogDwNcyMnDdgMLh2vvAo1XDVnZAgaCBQRjgcHgCjnzU\
o/WFF8FVzmkmAAF88LjjGP5+mTrbT50YlHnl1UVJVJVAoCGBaPHwHWWr0mNoAGn\
ZF/ugOGMllt6UVJVJVAoHBwAo5/1qXS\
vgdz+k7n/bnXRYEAIEgAPHThwWr0mNoAGn\
Nn7m+1sXub17u8g2ogw/IShazhVtCkIm90VSSsKy398x/GDx3bvmjt4pv\
vV/pu/70BvaTwhNjEfZYfnuuCRSseOGTHz/m3PXPSPSaMaQT1r22v7nyB6DwjZujUu/6jOZmEAsW\
w43dj1Fq0DIvRfhsESjuQBWHOfDZnhKEmne7wQVgbgrVqafNHdDBBC+5BgFfMDZnhKEmne7wQVgbgrVqafNHdDBBC+5BgFfMDZnhKEmne7wQVgbgrVqafNHdDBBC+5BgFfMDZnhKEmne7wQVgbgrVqafNHdD\
NGyDepzRc93qr0P/ByAxCc24SStp0U7bYyeSFlmcEQ2imeLNDFC3GVmc0YgbcgERDNp4nce\
1ltx2Wo2pR7VRyBz8RytpFVCdOgnd2YqQfVPM8CIwZqYYOIpJTEIa1ahH9cKNpEknSeLs5kS\
mgVgnZxdgyGCGvs6B9HBUwjzljrru0Aq1WDyiyf54tn2qdMZF5KbWriKJYkSiS1NZPaVGpx\
zUQmkqu/X1i7e2NpaxwWeGGylo91mxwAAAABJRU5ErkJggg==\
"""

ICONS["actionstop.png"] = """\
iVBORw0KGgoAAAANSUhEUgAAACAAAAAgCAYAAABzenr0AAAABmJLR0QA/wD/AP+gvaeTAAAA\
CXBIWXMAAAsMAAAALDAE/QCLIAAAAB3RJTUUH0woKFhwuX3mztAAAABetJREFUeNrFl+9rW+cV\
xz/Pta58rcSKY2uLGzdNUpotdsLk+tJm0JElG+ubwn6YGWeDW5m0b7YGGMqh\
RSSZoW//alW0M0rEZkyxds2/iXLLkipdXelePc9e6EqWbMlOskEPfpfOfc858BnLOJ+mkf1KqeMSBoFBiaqzIaYkYkTX8/iXLLkipdXePc9e6EqWbMlOskEPfpfOfc858BnLOJ+mkf1KqeMSBoFBiaqzIaYkYkTX8+iXLXkipdXePc9e6EqWbMlOskEPfpfOfc858BnLOJ+mkf1KqeMSBoFBiaqzIaYkYkTXg8qgGJ+wPDWbcCmwdc1F/H2eTN8AXCi0ah8IIJx88jjGpyT8NU2pegIah8wPDWbcCmwdc1F/H2eTN8AXCi0ah8IIJx88jjGpyT8NU2pegIah8wPDWbcCmwdc1F/H2eTN8AXCi0ah8IIJx88jjGpyT8NU2pegIah8wPDWbcCmwdc1F/H2eTN8AXCi0ah8IIJx88jjGpyT8NU2pegIah8wPDWbcCmwdc1F/H2eTN8AXCi0ah8IIJx88jjGpyT8NU2pegIah8wPDWbcCmwdc1F/H2eTN8AXCi0ah8IIJx88jjGpyT8NU2pegIah8q5

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ICONS["editredo.png"] = """\
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ICONS["editreplace.png"] = """\
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ICONS["editunindent.png"] = """\
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ICONS["fileclose.png"] = """\
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ICONS["filenew.png"] = """\
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ICONS["fileopen.png"] = """\
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ICONS["filequit.png"] = """\
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ICONS["filesaveall.png"] = """\
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MT9/virxpYRUZhD38RRHqJd4fl7Sl7SoDtIgpxXb/+foTDzwht3YJVVq26XLz958l47Hq7qXTg\
/fefdQj7zndCOHr0ITz7bCNOnmzBYef3Cm8/PIvY8OGuzEwcBPC4fqXfAL\
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/fefdQj7zndCOHr0ITz7bCNOnmzBYef3Cm8/PIvY8OGuzEwcBPC4fqXfAL\
8hnB6Ndf34V9+xrQ2DiJwcFJvPvu98yYFQMtLv3Q0OuprfSIuZXb/+foTDzwht3YJVVq26XLz958l47Hq7qXTg\
oCUCDQ3dtJrfpphHx3vvPUnieB9uv32VVIHYL/hC4TIxLQoGyz0VWYYLgtKAoEsc/pVWYYLgtKAoEsc/pVWYYLgtKAoEsc/pVWYYLgtKAoEsc/pVWYYLgtKAoEsc/pVWYYLgtKAoEsc/pVWYYLgtKAoEsc/pVWYYLgtKAoEsc/pV\
B73DFEGKPuFwOzE7JdsKhTT1s9vbqJ6S14nEBpK+Xjl+PL6+YvisLZ0BrCRrFCAw/G3MzJyQ\
9cOHHyTpeB533jnrk1wpD7wE8E8YI4cZ3I3LTLlijVxu0mqfoH6t1na6ZdR/yrkfDDbLPuPj4Ou\
z1G5Qtf/6RM++wB+gAiKbPLffPPPPJIAJNRrge/js0Nw9YUXBrszIyO6AGXBrszIyO6AGXBrszIyO6AGXBrszIyO6AGXBrszIyO6\
4ll6xguCZ878I13I5IUr9PWtvpqbT6P8n8GaawwSJ/lfR3/8YNmx4jKTyU0lKSZ/8YNmx4jKTyU0lKSZ/8YNmx4jKTyU0lKSZ/8YNmx4jKTyU0lKSZ\
3vCZLx4E7YHs/IHcKjt3i+8cB2hfTtN5D9www1Pyj79/X9EuEDIuvQgb4bJm6zg2L8j9j9j9j9j9j9j9j9j9j9j9j\
GUL1HkSjyz0qI5i5d+8Kwpcfoq/vL2RbX98jEgdeeU56f+WLfuLwkIHIHTsuZvNZvGa9/DYjw+Eg\
f5HU8sESNVAgyOqNxMgVfnHz+q5f3dvv6dJ\
Drw+hN954Hz5JnzLy0GGBE8Mnrjb9pMXS0Ly0GGBE8Mnrjb9pMXS0Ly0GGBE8Mnrjb9pMXS0Ly0GGBE8Mnrjb9pMXS0Ly0GGBE8Mnrjb9pMXS0G4bJm6zg2L8j9D5j9XX6\

FPf/OPERuItW7iWd+7PW/p4pjvGpyzh1dlR8vzuxGAnoJ3qPtrbEtc/t2hhsFOGzlbhwxNtV\
t/frudvtT9PcydD6eYimEy0WU1jFDxpwhbROPtDd7nNflJkr8/ivHx/UZ2ZmDRp3C1tMMsL+\
oSWVa6XR/cCP4j4jWJsg3XU7lLW35Xnr3ryDt25Y+3XNg+KHltnRl/azpWRjfj4/teULEuEQ\
UoVJ5Uwz7LH07IUXnZ/asv//9fhH/PgfyB9ZzISEX0oAAAASUVORK5CYII=\
"""

ICONS["window.png"] = """\
iVBORw0KGgoAAAANSUhEUgAAACAAAAAgCAYAAABzenr0AAAABGdBTUEAAK/INwWK6QAAABl0\
RVh0U29mdHdhcmUAQWRvYmUgSW1hZ2VSZWFkeXHJZTwAAAMLSURBVHjaYvz//z/DQAKAAAGIE\
ERaTHhr+//dX8O/PH0z//v5l+Pf3H8O/PyAMZSPzQfQ/CP0XLP+f4T9I7O9fFD1/wfz/YHGw\
PFzN7w//zqefB1r7D4j/AwQQo8XkR4mMTMzzRPnZgAYCNf7+D6Gh+M9vGBsoDmT/AauBioH5\
/+FsFPVAc/7ALf7H8P8fkkP79h+3++yme4UjgH6IAfAAHEArcVE2AQUaYi+H3bwYw\
/vULFf9EZv9Eo0HiPyF8OBtI/waGLdANDP9AYcwKDW+gIxi/n2D4z/Z/IpC3CYhfAAQQE0gc\
bvkfiAP+AGlgSMLxXyyQMNIB6CEwMRIYzqsIMdMsZMNSAsicyAAggskIA2WBUy/DxYaGFGgGAAURyCKBnKeIs\
Z4BHFFboDAAKIpBDAlrhIDQn0RAgQQEwMRIYYuuXIpRspIYEgABRFQI4LOc5JD4i+oAgABi\
+v+PVMuxpQPSHIMMMAAIIbwght5xCx6DZARBABBBxAyHLc0YIIrjaADGCmQ3xFa49xWER6EAAE\
ENa6AF+lQklIYIsCgADCCAH8NRpllv/DEtoAAYSSBghZjt8xuIMdWR49xAECiAUUUAp8/fwMX\
ELCi8j+UhvD/o8hhhVfMfSRxqCdwa5GgHiv8GNRiRAEAAsYBcZ9J0C96APPVs/hR+B+DFAAx\
JJQ59EKGGAAQQKBuAx8QywIxP527hR+B+DFAAMH6LZxI/Rd6AWAXiOE7QAAxDnTvGCCAmBgG\
GAAEGAA4876roWF48QAAAABJRU5ErkJggg==\
"""

ICONS["docs.png"] = """\
iVBORw0KGgoAAAANSUhEUgAAABYAAAAWCAYAAADEtGw7AAAABHNCSVQICAgIfAhkiAAAABl0R\
\
Vh0U29mdHdhcmUAd3d3Lmlua3NjYXBlLm9yZ5vuPBoAAATQSURBVBiVtZVZTJRXFMd/dzYGhh\
kYhmVYhhE6ArIoFrFiBhIVN9RWMGpjH1qrTfvkQ5M2mj61j61tTPrQpGqGqXdBESK4oKaEaLNr\
iXlRcMFjBJQwOfDAzzHzwcftQSzVYax96Xv4P95zfPefek3OElJL/w3TP6rhR+uFsLzNteXXXd kVJRjI3kZHu3e/FVGG43e0TPrQpGYq+DfvkQ5M2mj61j61tTPrQpGYq+DfvkQ5M2mj61j61tT\
nS8bjR+uFsLzNtextIw3CpFrdTheX7MFGK84YTDQJwRt58DHwq0\
JsWb1mzY5VVVXC8ATIE/URG4mJ4ZmUc1m43edjp/OnetpbBwGwmGGzmq0\
bqpqU3PH7CdtsRHu9aL29mVlRGS5KFQUhZGguq5cGGh0fJm2ElBCAqnJi1m43edjp/OnetpbBwG\
vFUVpK4bRvOpKQpHy5V1ZIKeoMoWVxQXr6s+d33b4vviEK0eayMvcVB59unAcbmDmTKweSgCw1s31KKMO82/4ppxXt3unAcbmDmTK\
afj751a3HW1EwwBTgSD+A8exHDmTKwwe0ElewBTSD+A8exHDmTKwwe0El\
CvB0yXNw83UEwBTgSD+A8exHDmTKwe0El\
rIXT6haGGVqLg4tIhKbzBAxKbn9u3sAbBWpXbzLS0MFwxhZZSSXplLpeWpeLD3Z9L2\
movyojoeBf1RhU5W7HcPflVdFJbvRmE6a4WLRwBFPYYgtluR4uoFNjOs3v7dgBUVUXTNMxmM0I\
I/AGN64pptj8nHCLvHTpOICg0Jsg0Jsg0Jsg0Jsg0Jsg0J\
ufmTbxsIT3Cgw8+eltO0ndlLcvHHXhc2yt3e3QXae8AOb7Mu99kUvhapYNs5szmY0wAO9dgdBUVUXTNMxmM\
n8+MaleYjPnYIg280v3IAtmSxrPKexnBWU06nrRq1udX0dhwInKx/2g/wG\
Qfp2TGZ1eueIGyxUFGIsOcPVrPqfqdBEPF1CY4+bTuCPa4k2QVRqhY6yAlYQnVs5ayxDUPg+5\
PTCMnJKra9Ri458r9M/eG7s6yxthwWp0srU7CuyLIYHCIW53n6Lt+H0LJvHHia6yaVkG0wTyl\

l8fEuJHkZDfQPQlWg2MtDV91bCqpmkZyih2LMRaLyYIn6Tmc3hRG5oyg/zmZdZ4lU4C9gfvUX\
fmR+lvHBVLmAK2PTTcxffpsEW3cnFbqqMktT3UWlWeSmBiPxRiLFtBR4itjQUEpAP2jfvZeb2\
VPazPtzadvy5vBZgYG6hkePiul9P3joBcez3y9JWqja37y6lxvauLMCjdah52iGXnsaTtCa+O\
pfu2a0sLA0D78/g6gX0oZmYz/t50nhBB4PBUGa9QmU7ppbuhm8AoDgw34fMeB+1LK8BPj/usy\
FUII+QxBfwBZwhv1Cgi1ZAAAAABJRU5ErkJggg==\
"""

```python
def getIcon(name):
    icon = ICONS.get(name)
    if icon is None:
        return QIcon()
    if isinstance(icon, basestring):
        pixmap = QPixmap()
        pixmap.loadFromData(base64.b64decode(icon))
        icon = QIcon(pixmap)
        ICONS[name] = icon
    return icon


def getPixmap(name):
    image = PIXMAPS.get(name)
    if image is None:
        return QPixmap()
    if isinstance(image, basestring):
        pixmap = QPixmap()
        pixmap.loadFromData(base64.b64decode(image))
        PIXMAPS[name] = image = pixmap
    return image


def isAlive(qobj):
    import sip
    try:
        sip.unwrapinstance(qobj)
    except RuntimeError:
        return False
    return True


def main():
    if not hasattr(sys, "ps1"):
        sys.ps1 = ">>> "
    if not hasattr(sys, "ps2"):
        sys.ps2 = "... "
    app = QApplication(sys.argv)
    if not sys.platform.startswith(("linux", "win")):
        app.setCursorFlashTime(0)
    app.setOrganizationName("Qtrac Ltd.")
```

```python
    app.setOrganizationDomain("qtrac.eu")
    app.setApplicationName("Sandbox")
    app.setWindowIcon(getIcon("icon.png"))
    loadConfig()

    for name in KEYWORDS + BUILTINS + CONSTANTS:
        if len(name) >= MIN_COMPLETION_LEN and not name.startswith("_"):
            CAT[name] = ""
            try:
                tip = eval("%s.__doc__" % name)
                if tip is not None:
                    CAT[name] = (tip[:MAX_TOOLTIP_LEN]
                            .strip().replace("\n\n", "<p>"))
            except:
                pass
    for name in MODULES.keys():
        CAT[name] = None

    if len(sys.argv) > 1:
        args = sys.argv[1:]
        if args[0] in ("-h", "--help"):
            args.pop(0)
            print """usage: sandbox.pyw [-n|filenames]
-n or --new means start with new file
filenames   means start with the given files (which must have .py or .pyw
        suffixes); otherwise starts with new file or Python shell
        depending on configuration
Sandbox requires Python 2.5 and PyQt 4.2 (or later versions)
For more information run the program and click
Help->About and Help->Help"""
            return
        if args and args[0] in ("-n", "--new"):
            args.pop(0)
            MainWindow().show()
        dir = QDir()
        for fname in args:
            if fname.endswith((".py", ".pyw")):
                MainWindow(dir.cleanPath(
                        dir.absoluteFilePath((fname)))).show()
    if not MainWindow.Instances:
        MainWindow(isShell=Config["startwithshell"]).show()

    app.exec_()
    saveConfig()


main()
```

Ideas for improvements
#
- Make Indent & Unindent smarter, i.e., Indent should insert _up to_
tabwidth spaces to make the number of leading spaces an exact multiple
of tabwidth. Similarly, Unindent should remove _up to_ tabwidth
spaces on the same basis
- Recent files handling
- Add tooltips to all ConfigForm editing widgets & improve validation
- Add tooltips to all main window actions that don't have any.
- Goto menu. Use submenus to reflect the structure of the code, i.e.,
classes
Class1
Method1
Method2
functions
Func1
Func2
InnerFuncA
This should be doable when reading, but trickier to maintain when
users add or change classes and defs since the right "parent" must be
found, and the name put in the right place in the tree
- Robustness? catch exceptions better, etc.
- Help? Handle help() in the shell?
- Tools menu? (modeless delete on close dialogs); e.g.,
Regular Expression Editor (similar to the one I wrote as an
example for TT); support multiple syntaxes, e.g., re, glob,
(fnmatch?), QRegExp, and QRegExp wildcard
- i18n? use a custom dictionary-like function and keep all
translations in this same file; or embed .qm files in base64?
- Autosave? If not zero auto saves every N seconds to
.sb$.self.filename. On close the .sb$. file is deleted after the
save. On open, if a .sb$. file exists, rename it self.filename#1 (or
2 or whatever to make it unique) and then give a warning to the user
that they may wish to diff against it. So we don't do recover as
such.
- Make keyboard shortcuts customisable? (apart from the standard ones)
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This is the qmake project file for the QPy support code for the QtCore
module.
#
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#
This file is part of PyQt.

```
CONFIG      += static warn_on
TARGET      = qpycore
TEMPLATE    = lib
DEFINES     += QT_DISABLE_DEPRECATED_BEFORE=0x040900

# Python's type system relies on type punning.
!win32: QMAKE_CXXFLAGS += -fno-strict-aliasing

# This seems to be necessary for Qt v4.5.2.
win32: INCLUDEPATH += .

SOURCES   = \
        qpycore_qabstracteventdispatcher.cpp \
        qpycore_chimera.cpp \
        qpycore_chimera_signature.cpp \
        qpycore_chimera_storage.cpp \
        qpycore_classinfo.cpp \
        qpycore_init.cpp \
        qpycore_misc.cpp \
        qpycore_post_init.cpp \
        qpycore_pyqtboundsignal.cpp \
        qpycore_pyqtconfigure.cpp \
        qpycore_pyqtmethodproxy.cpp \
        qpycore_pyqtproperty.cpp \
        qpycore_pyqtproxy.cpp \
        qpycore_pyqtpyobject.cpp \
        qpycore_pyqtsignal.cpp \
        qpycore_pyqtslot.cpp \
```

```
qpycore_qmetaobject.cpp \
qpycore_qmetaobject_helpers.cpp \
qpycore_qobject_getattr.cpp \
qpycore_qobject_helpers.cpp \
qpycore_qpynullvariant.cpp \
qpycore_qstring.cpp \
qpycore_qstringlist.cpp \
qpycore_sip_helpers.cpp \
qpycore_types.cpp \
qpycore_qvariant.cpp \
qpycore_qvariant_value.cpp

HEADERS   = \
qpycore_api.h \
qpycore_chimera.h \
qpycore_classinfo.h \
qpycore_misc.h \
qpycore_namespace.h \
qpycore_pyqtboundsignal.h \
qpycore_pyqtproperty.h \
qpycore_pyqtproxy.h \
qpycore_pyqtpyobject.h \
qpycore_pyqtsignal.h \
qpycore_pyqtmethodproxy.h \
qpycore_qmetaobjectbuilder.h \
qpycore_qobject_helpers.h \
qpycore_qpynullvariant.h \
qpycore_sip.h \
qpycore_sip_helpers.h \
qpycore_types.h
```

Addendum to the Riverbank GPL Exception version 1.1

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 For the implementation of Python plugin support for Designer.

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 For pyuic for PyQt v4.

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 For pylupdate for PyQt v4.

Andreas Pakulat
 For porting Qt v4 examples to PyQt.

Douglas Soares de Andrade
 For porting Qt v4 examples to PyQt.

Baz Walter
 For porting Qt v4 examples to PyQt.

import QtQuick 1.0

```
Component {
  Item {
    property variant stickies

    id: page
    width: ListView.view.width+40; height: ListView.view.height


    Image {
      source: "cork.jpg"
      width: page.ListView.view.width
      height: page.ListView.view.height
      fillMode: Image.PreserveAspectCrop
      clip: true
    }

    MouseArea {
      anchors.fill: parent
      onClicked: page.focus = false;
    }

    Text {
      text: name; x: 15; y: 8; height: 40; width: 370
      font.pixelSize: 18; font.bold: true; color: "white"
      style: Text.Outline; styleColor: "black"
    }

    Repeater {
      model: notes
      Item {
        id: stickyPage

        property int randomX: Math.random() * (page.ListView.view.width-0.5*stickyImage.width) +100
        property int randomY: Math.random() * (page.ListView.view.height-0.5*stickyImage.height) +50

        x: randomX; y: randomY

        rotation: -flickable.horizontalVelocity / 100;
        Behavior on rotation {
          SpringAnimation { spring: 2.0; damping: 0.15 }
        }

        Item {
          id: sticky
          scale: 0.7

          Image {
            id: stickyImage
```

```
            x: 8 + -width * 0.6 / 2; y: -20
            source: "note-yellow.png"
            scale: 0.6; transformOrigin: Item.TopLeft
            smooth: true
        }

        TextEdit {
            id: myText
            x: -104; y: 36; width: 215; height: 200
            smooth: true
            font.pixelSize: 24
            readOnly: false
            rotation: -8
            text: noteText
        }

        Item {
            x: stickyImage.x; y: -20
            width: stickyImage.width * stickyImage.scale
            height: stickyImage.height * stickyImage.scale

            MouseArea {
                id: mouse
                anchors.fill: parent
                drag.target: stickyPage
                drag.axis: Drag.XandYAxis
                drag.minimumY: 0
                drag.maximumY: page.height - 80
                drag.minimumX: 100
                drag.maximumX: page.width - 140
                onClicked: { myText.focus = true; myText.openSoftwareInputPanel(); }
            }
        }
    }

    Image {
        x: -width / 2; y: -height * 0.5 / 2
        source: "tack.png"
        scale: 0.7; transformOrigin: Item.TopLeft
    }

    states: State {
        name: "pressed"
        when: mouse.pressed
        PropertyChanges { target: sticky; rotation: 8; scale: 1 }
        PropertyChanges { target: page; z: 8 }
    }
```

```
            transitions: Transition {
                NumberAnimation { properties: "rotation,scale"; duration: 200 }
            }
        }
    }
}
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****************************************************************************/

import QtQuick 1.0

Rectangle {
```

```
width: 800; height: 480
color: "#464646"

ListModel {
    id: list

    ListElement {
        name: "Sunday"
        notes: [
            ListElement { noteText: "Lunch" },
            ListElement { noteText: "Birthday Party" }
        ]
    }

    ListElement {
        name: "Monday"
        notes: [
            ListElement { noteText: "Pickup kids from\nschool\n4.30pm" },
            ListElement { noteText: "Checkout Qt" }, ListElement { noteText: "Read email" }
        ]
    }

    ListElement {
        name: "Tuesday"
        notes: [
            ListElement { noteText: "Walk dog" },
            ListElement { noteText: "Buy newspaper" }
        ]
    }

    ListElement {
        name: "Wednesday"
        notes: [ ListElement { noteText: "Cook dinner" } ]
    }

    ListElement {
        name: "Thursday"
        notes: [
            ListElement { noteText: "Meeting\n5.30pm" },
            ListElement { noteText: "Weed garden" }
        ]
    }

    ListElement {
        name: "Friday"
        notes: [
            ListElement { noteText: "More work" },
            ListElement { noteText: "Grocery shopping" }
```

```
        ]
      }

    ListElement {
      name: "Saturday"
      notes: [
        ListElement { noteText: "Drink" },
        ListElement { noteText: "Download Qt\nPlay with QML" }
      ]
    }
  }

  ListView {
    id: flickable

    anchors.fill: parent
    focus: true
    highlightRangeMode: ListView.StrictlyEnforceRange
    orientation: ListView.Horizontal
    snapMode: ListView.SnapOneItem
    model: list
    delegate: Day { }
  }
}
```

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```
import QtQuick 1.0
import "itemCreation.js" as Code

Image {
  id: paletteItem

  property string componentFile
  property string image

  source: image

  MouseArea {
    anchors.fill: parent

    onPressed: Code.startDrag(mouse);
    onPositionChanged: Code.continueDrag(mouse);
    onReleased: Code.endDrag(mouse);
  }
}
```

```
import QtQuick 1.0

Image {
    id: rootItem

    property bool created: false
    property string image

    property double scaledBottom: y + (height + height*scale) / 2
    property bool onLand: scaledBottom > window.height / 2

    source: image
    opacity: onLand ? 1 : 0.25
    scale: Math.max((y + height - 250) * 0.01, 0.3)
    smooth: true

    onCreatedChanged: {
        if (created && !onLand)
            rootItem.destroy();
        else
            z = scaledBottom;
    }

    onYChanged: z = scaledBottom;
}
```

```
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****************************************************************************/

import QtQuick 1.0

Image {
    property bool created: false
    property string image

    source: image

}
```

```
import QtQuick 1.0

Image {
    id: sun

    property bool created: false
    property string image: "../images/sun.png"

    source: image
```

```
      // once item is created, start moving offscreen
      NumberAnimation on y {
        to: window.height / 2
        running: created
        onRunningChanged: {
          if (running)
            duration = (window.height - sun.y) * 10;
          else
            state = "OffScreen"
        }
      }

      states: State {
        name: "OffScreen"
        StateChangeScript {
          script: { sun.created = false; sun.destroy() }
        }
      }

      onCreatedChanged: {
        if (created) {
          sun.z = 1;   // above the sky but below the ground layer
          window.activeSuns++;
        } else {
          window.activeSuns--;
        }
      }
    }
}
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import QtQuick 1.0
import Qt.labs.particles 1.0

Item {
  id: window

  property int activeSuns: 0

  //This is a desktop-sized example
  width: 800; height: 480


  MouseArea {
    anchors.fill: parent
    onClicked: window.focus = false;
  }

  //This is the message box that pops up when there's an error
  Rectangle {
    id: dialog

    opacity: 0
    anchors.centerIn: parent
    width: dialogText.width + 6; height: dialogText.height + 6
    border.color: 'black'
    color: 'lightsteelblue'
    z: 65535 //Arbitrary number chosen to be above all the items, including the scaled perspective ones.

    function show(str){
        dialogText.text = str;
```

```
            dialogAnim.start();
        }
    }

    Text {
        id: dialogText
        x: 3; y: 3
        font.pixelSize: 14
    }

    SequentialAnimation {
        id: dialogAnim
        NumberAnimation { target: dialog; property:"opacity"; to: 1; duration: 1000 }
        PauseAnimation { duration: 5000 }
        NumberAnimation { target: dialog; property:"opacity"; to: 0; duration: 1000 }
    }
}

// sky
Rectangle {
    id: sky
    anchors { left: parent.left; top: parent.top; right: toolbox.right; bottom: parent.verticalCenter }
    gradient: Gradient {
        GradientStop { id: gradientStopA; position: 0.0; color: "#0E1533" }
        GradientStop { id: gradientStopB; position: 1.0; color: "#437284" }
    }
}

// stars (when there's no sun)
Particles {
    id: stars
    x: 0; y: 0; width: parent.width; height: parent.height / 2
    source: "images/star.png"
    angleDeviation: 360
    velocity: 0; velocityDeviation: 0
    count: parent.width / 10
    fadeInDuration: 2800
    opacity: 1
}

// ground
Rectangle {
    id: ground
    z: 2    // just above the sun so that the sun can set behind it
    anchors { left: parent.left; top: parent.verticalCenter; right: toolbox.left; bottom: parent.bottom }
    gradient: Gradient {
        GradientStop { position: 0.0; color: "ForestGreen" }
        GradientStop { position: 1.0; color: "DarkGreen" }
    }
}
```

```
    }

    SystemPalette { id: activePalette }

    // right-hand panel
    Rectangle {
        id: toolbox

        width: 380
        color: activePalette.window
        anchors { right: parent.right; top: parent.top; bottom: parent.bottom }

        Column {
            anchors.centerIn: parent
            spacing: 8

            Text { text: "Drag an item into the scene." }

            Rectangle {
                width: palette.width + 10; height: palette.height + 10
                border.color: "black"

                Row {
                    id: palette
                    anchors.centerIn: parent
                    spacing: 8

                    PaletteItem {
                        anchors.verticalCenter: parent.verticalCenter
                        componentFile: "Sun.qml"
                        image: "images/sun.png"
                    }
                    PaletteItem {
                        anchors.verticalCenter: parent.verticalCenter
                        componentFile: "GenericSceneItem.qml"
                        image: "images/moon.png"
                    }
                    PaletteItem {
                        anchors.verticalCenter: parent.verticalCenter
                        componentFile: "PerspectiveItem.qml"
                        image: "images/tree_s.png"
                    }
                    PaletteItem {
                        anchors.verticalCenter: parent.verticalCenter
                        componentFile: "PerspectiveItem.qml"
                        image: "images/rabbit_brown.png"
                    }
                    PaletteItem {
```

```qml
                    anchors.verticalCenter: parent.verticalCenter
                    componentFile: "PerspectiveItem.qml"
                    image: "images/rabbit_bw.png"
                }
            }
        }

        Text { text: "Active Suns: " + activeSuns }

        Rectangle { width: parent.width; height: 1; color: "black" }

        Text { text: "Arbitrary QML:" }

        Rectangle {
            width: 360; height: 240

            TextEdit {
                id: qmlText
                anchors.fill: parent; anchors.margins: 5
                readOnly: false
                font.pixelSize: 14
                wrapMode: TextEdit.WordWrap

                text: "import QtQuick 1.0\nImage {\n    id: smile\n    x: 360 * Math.random()\n    y: 180 *
Math.random() \n    source: 'images/face-smile.png'\n    NumberAnimation on opacity { \n        to: 0; duration:
1500\n    }\n    Component.onCompleted: smile.destroy(1500);\n}"
            }
        }

        Button {
            text: "Create"
            onClicked: {
                try {
                    Qt.createQmlObject(qmlText.text, window, 'CustomObject');
                } catch(err) {
                    dialog.show('Error on line ' + err.qmlErrors[0].lineNumber + '\n' + err.qmlErrors[0].message);
                }
            }
        }
    }
}

//Day state, for when a sun is added to the scene
states: State {
    name: "Day"
    when: window.activeSuns > 0

    PropertyChanges { target: gradientStopA; color: "DeepSkyBlue" }
```

```
      PropertyChanges { target: gradientStopB; color: "SkyBlue" }
      PropertyChanges { target: stars; opacity: 0 }
    }

    transitions: Transition {
      PropertyAnimation { duration: 3000 }
      ColorAnimation { duration: 3000 }
    }

}
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*****************************************************************************/
```

```
import QtQuick 1.0

Rectangle {
    id: container

    property variant text
    signal clicked

    height: text.height + 10; width: text.width + 20
    border.width: 1
    radius: 4
    smooth: true

    gradient: Gradient {
        GradientStop {
            position: 0.0
            color: !mouseArea.pressed ? activePalette.light : activePalette.button
        }
        GradientStop {
            position: 1.0
            color: !mouseArea.pressed ? activePalette.button : activePalette.dark
        }
    }

    SystemPalette { id: activePalette }

    MouseArea {
        id: mouseArea
        anchors.fill: parent
        onClicked: container.clicked()
    }

    Text {
        id: text
        anchors.centerIn:parent
        font.pointSize: 10
        text: parent.text
        color: activePalette.buttonText
    }
}
# This is the qmake project file for the QPy support code for the QtDBus
# module.
#
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#
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```
QT          += dbus
CONFIG      += static warn_on
TARGET      = qpydbus
TEMPLATE    = lib

SOURCES   = \
        qpydbus_chimera_helpers.cpp \
        qpydbus_post_init.cpp \
        qpydbuspendingreply.cpp \
        qpydbusreply.cpp

HEADERS   = \
        qpydbus_api.h \
        qpydbus_chimera_helpers.h \
        qpydbuspendingreply.h \
        qpydbusreply.h
```
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```
import QtQuick 1.0
import "content"
import "content/tic-tac-toe.js" as Logic

Rectangle {
    id: game

    property bool running: true
    property real difficulty: 1.0   //chance it will actually think

    width: display.width; height: display.height + 10

    Image {
        id: boardImage
        source: "content/pics/board.png"
    }


    Column {
        id: display

        Grid {
            id: board
            width: boardImage.width; height: boardImage.height
```

```
            columns: 3

         Repeater {
            model: 9

            TicTac {
               width: board.width/3
               height: board.height/3

               onClicked: {
                  if (game.running && Logic.canPlayAtPos(index)) {
                     if (!Logic.makeMove(index, "X"))
                        Logic.computerTurn();
                  }
               }
            }
         }
      }

      Row {
         spacing: 4
         anchors.horizontalCenter: parent.horizontalCenter

         Button {
            text: "Hard"
            pressed: game.difficulty == 1.0
            onClicked: { game.difficulty = 1.0 }
         }
         Button {
            text: "Moderate"
            pressed: game.difficulty == 0.8
            onClicked: { game.difficulty = 0.8 }
         }
         Button {
            text: "Easy"
            pressed: game.difficulty == 0.2
            onClicked: { game.difficulty = 0.2 }
         }
      }
   }


   Text {
      id: messageDisplay
      anchors.centerIn: parent
      color: "blue"
      style: Text.Outline; styleColor: "white"
      font.pixelSize: 50; font.bold: true
```

```
            visible: false

        Timer {
            running: messageDisplay.visible
            onTriggered: {
                messageDisplay.visible = false;
                Logic.restartGame();
            }
        }
    }
}
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****************************************************************************/
```

```
import QtQuick 1.0

Item {
  signal clicked

  states: [
    State { name: "X"; PropertyChanges { target: image; source: "pics/x.png" } },
    State { name: "O"; PropertyChanges { target: image; source: "pics/o.png" } }
  ]

  Image {
    id: image
    anchors.centerIn: parent
  }

  MouseArea {
    anchors.fill: parent
    onClicked: parent.clicked()
  }
}
```

```
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****************************************************************************/

import QtQuick 1.0

Rectangle {
    id: container

    property string text
    property bool pressed: false

    signal clicked

    width: buttonLabel.width + 20; height: buttonLabel.height + 6
    border { width: 1; color: Qt.darker(container.color) }
    radius: 8
    color: "lightgray"
    smooth: true

    gradient: Gradient {
        GradientStop {
            position: 0.0
            color: container.pressed ? "darkgray" : "white"
        }
        GradientStop {
            position: 1.0
            color: container.color
        }
    }

    MouseArea {
        anchors.fill: parent
        onClicked: container.clicked()
    }

    Text {
        id: buttonLabel
        anchors.centerIn: container
        text: container.text
        font.pixelSize: 14
```

```
  }
}
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*************************************************************************/

import QtQuick 1.0

Rectangle {
    id: page
    width: 640; height: 480
    color: "Black"

    // Make a ball to bounce
```

```qml
Rectangle {
    id: ball

    // Add a property for the target y coordinate
    property variant direction : "right"

    x: 20; width: 20; height: 20; z: 1
    color: "Lime"

    // Move the ball to the right and back to the left repeatedly
    SequentialAnimation on x {
        loops: Animation.Infinite
        NumberAnimation { to: page.width - 40; duration: 2000 }
        PropertyAction { target: ball; property: "direction"; value: "left" }
        NumberAnimation { to: 20; duration: 2000 }
        PropertyAction { target: ball; property: "direction"; value: "right" }
    }

    // Make y move with a velocity of 200
    Behavior on y { SpringAnimation{ velocity: 200; }
    }

    Component.onCompleted: y = page.height-10; // start the ball motion

    // Detect the ball hitting the top or bottom of the view and bounce it
    onYChanged: {
        if (y <= 0) {
            y = page.height - 20;
        } else if (y >= page.height - 20) {
            y = 0;
        }
    }
}

// Place bats to the left and right of the view, following the y
// coordinates of the ball.
Rectangle {
    id: leftBat
    color: "Lime"
    x: 2; width: 20; height: 90
    y: ball.direction == 'left' ? ball.y - 45 : page.height/2 -45;
    Behavior on y { SpringAnimation{ velocity: 300 } }
}
Rectangle {
    id: rightBat
    color: "Lime"
    x: page.width - 22; width: 20; height: 90
    y: ball.direction == 'right' ? ball.y - 45 : page.height/2 -45;
```

```
        Behavior on y { SpringAnimation{ velocity: 300 } }
    }


    // The rest, to make it look realistic, if neither ever scores...
    Rectangle { color: "Lime"; x: page.width/2-80; y: 0; width: 40; height: 60 }
    Rectangle { color: "Black"; x: page.width/2-70; y: 10; width: 20; height: 40 }
    Rectangle { color: "Lime"; x: page.width/2+40; y: 0; width: 40; height: 60 }
    Rectangle { color: "Black"; x: page.width/2+50; y: 10; width: 20; height: 40 }
    Repeater {
        model: page.height / 20
        Rectangle { color: "Lime"; x: page.width/2-5; y: index * 20; width: 10; height: 10 }
    }
}
```

```
**
*************************************************************************/

import QtQuick 1.0
import "content"

Rectangle {
    width: 640; height: 240
    color: "#646464"

    Row {
        anchors.centerIn: parent
        Clock { city: "New York"; shift: -4 }
        Clock { city: "Mumbai"; shift: 5.5 }
        Clock { city: "Tokyo"; shift: 9 }
    }
    QuitButton {
        anchors.right: parent.right
        anchors.top: parent.top
        anchors.margins: 10
    }
}
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**/

```
import QtQuick 1.0
Image {
    source: "quit.png"
    scale: quitMouse.pressed ? 0.8 : 1.0
    smooth: quitMouse.pressed
    MouseArea {
        id: quitMouse
        anchors.fill: parent
        anchors.margins: -10
        onClicked: Qt.quit()
    }
}
```

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```
import QtQuick 1.0

Item {
    id: clock
    width: 200; height: 230

    property alias city: cityLabel.text
    property int hours
    property int minutes
    property int seconds
    property real shift
    property bool night: false

    function timeChanged() {
        var date = new Date;
        hours = shift ? date.getUTCHours() + Math.floor(clock.shift) : date.getHours()
        night = ( hours < 7 || hours > 19 )
        minutes = shift ? date.getUTCMinutes() + ((clock.shift % 1) * 60) : date.getMinutes()
        seconds = date.getUTCSeconds();
    }

    Timer {
        interval: 100; running: true; repeat: true;
        onTriggered: clock.timeChanged()
    }

    Image { id: background; source: "clock.png"; visible: clock.night == false }
    Image { source: "clock-night.png"; visible: clock.night == true }


    Image {
        x: 92.5; y: 27
        source: "hour.png"
        smooth: true
```

```
    transform: Rotation {
      id: hourRotation
      origin.x: 7.5; origin.y: 73;
      angle: (clock.hours * 30) + (clock.minutes * 0.5)
      Behavior on angle {
        SpringAnimation { spring: 2; damping: 0.2; modulus: 360 }
      }
    }
  }

  Image {
    x: 93.5; y: 17
    source: "minute.png"
    smooth: true
    transform: Rotation {
      id: minuteRotation
      origin.x: 6.5; origin.y: 83;
      angle: clock.minutes * 6
      Behavior on angle {
        SpringAnimation { spring: 2; damping: 0.2; modulus: 360 }
      }
    }
  }

  Image {
    x: 97.5; y: 20
    source: "second.png"
    smooth: true
    transform: Rotation {
      id: secondRotation
      origin.x: 2.5; origin.y: 80;
      angle: clock.seconds * 6
      Behavior on angle {
        SpringAnimation { spring: 2; damping: 0.2; modulus: 360 }
      }
    }
  }

  Image {
    anchors.centerIn: background; source: "center.png"
  }

  Text {
    id: cityLabel
    y: 200; anchors.horizontalCenter: parent.horizontalCenter
    color: "white"
    font.bold: true; font.pixelSize: 14
    style: Text.Raised; styleColor: "black"
```

```
    }
}
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*********************************************************************/

import QtQuick 1.0

//![0]
ListView {
    width: 100; height: 100
    anchors.fill: parent
```

```
      model: myModel
      delegate: Rectangle {
         height: 25
         width: 100
         color: model.modelData.color
         Text { text: name }
      }
   }
}
//![0]
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**
****************************************************************************/
```

```qml
import QtQuick 1.0
import "content"

Rectangle {
    color: "white"
    width: 400; height: 250

//![0]
    Switch { anchors.centerIn: parent; on: false }
//![0]
}
```
```
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****************************************************************************/
```

```
//![0]
import QtQuick 1.0

Item {
    id: toggleswitch
    width: background.width; height: background.height

//![1]
    property bool on: false
//![1]

//![2]
    function toggle() {
        if (toggleswitch.state == "on")
            toggleswitch.state = "off";
        else
            toggleswitch.state = "on";
    }
//![2]

//![3]
    function releaseSwitch() {
        if (knob.x == 1) {
            if (toggleswitch.state == "off") return;
        }
        if (knob.x == 78) {
            if (toggleswitch.state == "on") return;
        }
        toggle();
    }
//![3]

//![4]
    Image {
        id: background
        source: "background.svg"
        MouseArea { anchors.fill: parent; onClicked: toggle() }
    }
//![4]

//![5]
    Image {
        id: knob
        x: 1; y: 2
        source: "knob.svg"

        MouseArea {
```

```
                anchors.fill: parent
                drag.target: knob; drag.axis: Drag.XAxis; drag.minimumX: 1; drag.maximumX: 78
                onClicked: toggle()
                onReleased: releaseSwitch()
            }
        }
//![5]

//![6]
        states: [
            State {
                name: "on"
                PropertyChanges { target: knob; x: 78 }
                PropertyChanges { target: toggleswitch; on: true }
            },
            State {
                name: "off"
                PropertyChanges { target: knob; x: 1 }
                PropertyChanges { target: toggleswitch; on: false }
            }
        ]
//![6]

//![7]
        transitions: Transition {
            NumberAnimation { properties: "x"; easing.type: Easing.InOutQuad; duration: 200 }
        }
//![7]
}
//![0]
# This is the qmake project file for the QPy support code for the QtDeclarative
# module.
#
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QT        += declarative
CONFIG     += static warn_on
TARGET     = qpydeclarative
TEMPLATE   = lib

SOURCES   = \
        qpydeclarative_chimera_helpers.cpp \
        qpydeclarative_listwrapper.cpp \
        qpydeclarative_post_init.cpp \
        qpydeclarativelistproperty.cpp

HEADERS   = \
        qpydeclarative_api.h \
        qpydeclarative_chimera_helpers.h \
        qpydeclarative_listwrapper.h \
        qpydeclarativelistproperty.h \
        qpydeclarativepropertyvaluesource.h
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**
```

```
import QtQuick 1.0
import "content"

Rectangle {
    id: window

    width: 480; height: 320
    color: "darkgreen"

    Row {
        anchors.centerIn: parent; spacing: 30
        Card { image: "content/9_club.png"; angle: 180; yAxis: 1 }
        Card { image: "content/5_heart.png"; angle: 540; xAxis: 1 }
    }
}
```

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****************************************************************************/

import QtQuick 1.0

Flipable {
    id: container

    property alias image: frontImage.source
    property bool flipped: true
    property int xAxis: 0
    property int yAxis: 0
    property int angle: 0

    width: front.width; height: front.height

    front: Image { id: frontImage; smooth: true }
    back: Image { source: "back.png"; smooth: true }

    state: "back"

    MouseArea { anchors.fill: parent; onClicked: container.flipped = !container.flipped }

    transform: Rotation {
        id: rotation; origin.x: container.width / 2; origin.y: container.height / 2
        axis.x: container.xAxis; axis.y: container.yAxis; axis.z: 0
    }

    states: State {
        name: "back"; when: container.flipped
        PropertyChanges { target: rotation; angle: container.angle }
```

```
        }

        transitions: Transition {
            ParallelAnimation {
                NumberAnimation { target: rotation; properties: "angle"; duration: 600 }
                SequentialAnimation {
                    NumberAnimation { target: container; property: "scale"; to: 0.75; duration: 300 }
                    NumberAnimation { target: container; property: "scale"; to: 1.0; duration: 300 }
                }
            }
        }
    }
}
```

```
*****************************************************************/

import QtQuick 1.0

TabWidget {
    id: tabs
    width: 640; height: 480

    Rectangle {
        property string title: "Red"
        anchors.fill: parent
        color: "#e3e3e3"

        Rectangle {
            anchors.fill: parent; anchors.margins: 20
            color: "#ff7f7f"
            Text {
                width: parent.width - 20
                anchors.centerIn: parent; horizontalAlignment: Qt.AlignHCenter
                text: "Roses are red"
                font.pixelSize: 20
                wrapMode: Text.WordWrap
            }
        }
    }

    Rectangle {
        property string title: "Green"
        anchors.fill: parent
        color: "#e3e3e3"

        Rectangle {
            anchors.fill: parent; anchors.margins: 20
            color: "#7fff7f"
            Text {
                width: parent.width - 20
                anchors.centerIn: parent; horizontalAlignment: Qt.AlignHCenter
                text: "Flower stems are green"
                font.pixelSize: 20
                wrapMode: Text.WordWrap
            }
        }
    }

    Rectangle {
        property string title: "Blue"
        anchors.fill: parent; color: "#e3e3e3"
```

```
    Rectangle {
        anchors.fill: parent; anchors.margins: 20
        color: "#7f7fff"
        Text {
            width: parent.width - 20
            anchors.centerIn: parent; horizontalAlignment: Qt.AlignHCenter
            text: "Violets are blue"
            font.pixelSize: 20
            wrapMode: Text.WordWrap
        }
    }
  }
}
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```

```
**
*************************************************************/

import QtQuick 1.0

Item {
    id: tabWidget

    // Setting the default property to stack.children means any child items
    // of the TabWidget are actually added to the 'stack' item's children.
    // See the "Property Binding"
    // documentation for details on default properties.
    default property alias content: stack.children

    property int current: 0

    onCurrentChanged: setOpacities()
    Component.onCompleted: setOpacities()

    function setOpacities() {
        for (var i = 0; i < stack.children.length; ++i) {
            stack.children[i].opacity = (i == current ? 1 : 0)
        }
    }
}

Row {
    id: header

    Repeater {
        model: stack.children.length
        delegate: Rectangle {
            width: tabWidget.width / stack.children.length; height: 36

            Rectangle {
                width: parent.width; height: 1
                anchors { bottom: parent.bottom; bottomMargin: 1 }
                color: "#acb2c2"
            }
            BorderImage {
                anchors { fill: parent; leftMargin: 2; topMargin: 5; rightMargin: 1 }
                border { left: 7; right: 7 }
                source: "tab.png"
                visible: tabWidget.current == index
            }
            Text {
                horizontalAlignment: Qt.AlignHCenter; verticalAlignment: Qt.AlignVCenter
                anchors.fill: parent
                text: stack.children[index].title
```

```
                elide: Text.ElideRight
                font.bold: tabWidget.current == index
            }
            MouseArea {
                anchors.fill: parent
                onClicked: tabWidget.current = index
            }
        }
    }
}

Item {
    id: stack
    width: tabWidget.width
    anchors.top: header.bottom; anchors.bottom: tabWidget.bottom
}
}
```
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****************************************************************************/

//! [imports]
import QtQuick 1.0
import "content"
//! [imports]

//! [0]
Rectangle {
    color: "#545454"
    width: 300; height: 300

    // Dial with a slider to adjust it
    Dial {
        id: dial
        anchors.centerIn: parent
        value: slider.x * 100 / (container.width - 34)
    }

    Rectangle {
        id: container
        anchors { bottom: parent.bottom; left: parent.left
            right: parent.right; leftMargin: 20; rightMargin: 20
            bottomMargin: 10
        }
        height: 16

        radius: 8
        opacity: 0.7
        smooth: true
        gradient: Gradient {
            GradientStop { position: 0.0; color: "gray" }
            GradientStop { position: 1.0; color: "white" }
        }

        Rectangle {
            id: slider
            x: 1; y: 1; width: 30; height: 14
            radius: 6
            smooth: true
            gradient: Gradient {
                GradientStop { position: 0.0; color: "#424242" }
                GradientStop { position: 1.0; color: "black" }
```

```
            }

            MouseArea {
                anchors.fill: parent
                anchors.margins: -16 // Increase mouse area a lot outside the slider
                drag.target: parent; drag.axis: Drag.XAxis
                drag.minimumX: 2; drag.maximumX: container.width - 32
            }
        }
    }
    QuitButton {
        anchors.right: parent.right
        anchors.top: parent.top
        anchors.margins: 10
    }
}
//! [0]
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****************************************************************************/

import QtQuick 1.0

Item {
  id: root
  property real value : 0

  width: 210; height: 210

  Image { source: "background.png" }

//! [needle_shadow]
  Image {
    x: 96
    y: 35
    source: "needle_shadow.png"
    transform: Rotation {
      origin.x: 9; origin.y: 67
      angle: needleRotation.angle
    }
  }
//! [needle_shadow]
//! [needle]
  Image {
    id: needle
    x: 98; y: 33
    smooth: true
    source: "needle.png"
    transform: Rotation {
      id: needleRotation
      origin.x: 5; origin.y: 65
      //! [needle angle]
      angle: Math.min(Math.max(-130, root.value*2.6 - 130), 133)
      Behavior on angle {
        SpringAnimation {
          spring: 1.4
          damping: .15
        }
      }
      //! [needle angle]
    }
  }
```

```
//! [needle]
//! [overlay]
    Image { x: 21; y: 18; source: "overlay.png" }
//! [overlay]
}
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****************************************************************************/

import QtQuick 1.0

Rectangle {
    width: 640
    height: 480
```

```
// Create a flickable to view a large image.
Flickable {
    id: view
    anchors.fill: parent
    contentWidth: picture.width
    contentHeight: picture.height

    Image {
        id: picture
        source: "niagara_falls.jpg"
        asynchronous: true
    }

    // Only show the scrollbars when the view is moving.
    states: State {
        name: "ShowBars"
        when: view.movingVertically || view.movingHorizontally
        PropertyChanges { target: verticalScrollBar; opacity: 1 }
        PropertyChanges { target: horizontalScrollBar; opacity: 1 }
    }

    transitions: Transition {
        NumberAnimation { properties: "opacity"; duration: 400 }
    }
}

// Attach scrollbars to the right and bottom edges of the view.
ScrollBar {
    id: verticalScrollBar
    width: 12; height: view.height-12
    anchors.right: view.right
    opacity: 0
    orientation: Qt.Vertical
    position: view.visibleArea.yPosition
    pageSize: view.visibleArea.heightRatio
}

ScrollBar {
    id: horizontalScrollBar
    width: view.width-12; height: 12
    anchors.bottom: view.bottom
    opacity: 0
    orientation: Qt.Horizontal
    position: view.visibleArea.xPosition
    pageSize: view.visibleArea.widthRatio
}
}
```

```
import QtQuick 1.0

Item {
  id: scrollBar

  // The properties that define the scrollbar's state.
  // position and pageSize are in the range 0.0 - 1.0.  They are relative to the
  // height of the page, i.e. a pageSize of 0.5 means that you can see 50%
  // of the height of the view.
  // orientation can be either Qt.Vertical or Qt.Horizontal
```

```
    property real position
    property real pageSize
    property variant orientation : Qt.Vertical

    // A light, semi-transparent background
    Rectangle {
        id: background
        anchors.fill: parent
        radius: orientation == Qt.Vertical ? (width/2 - 1) : (height/2 - 1)
        color: "white"
        opacity: 0.3
    }

    // Size the bar to the required size, depending upon the orientation.
    Rectangle {
        x: orientation == Qt.Vertical ? 1 : (scrollBar.position * (scrollBar.width-2) + 1)
        y: orientation == Qt.Vertical ? (scrollBar.position * (scrollBar.height-2) + 1) : 1
        width: orientation == Qt.Vertical ? (parent.width-2) : (scrollBar.pageSize * (scrollBar.width-2))
        height: orientation == Qt.Vertical ? (scrollBar.pageSize * (scrollBar.height-2)) : (parent.height-2)
        radius: orientation == Qt.Vertical ? (width/2 - 1) : (height/2 - 1)
        color: "black"
        opacity: 0.7
    }
}
```

```

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**/

import QtQuick 1.0
import "content"

Rectangle {
    id: main

    width: 600; height: 405
    color: "#edecec"

    Flickable {
        anchors.fill: parent
        contentHeight: column.height + 20

        Column {
            id: column
            x: 10; y: 10
            spacing: 10

            Repeater {
                model: 25

                ProgressBar {
                    property int r: Math.floor(Math.random() * 5000 + 1000)
                    width: main.width - 20

                    NumberAnimation on value { duration: r; from: 0; to: 100; loops: Animation.Infinite }
                    ColorAnimation on color { duration: r; from: "lightsteelblue"; to: "thistle"; loops: Animation.Infinite }
                    ColorAnimation on secondColor { duration: r; from: "steelblue"; to: "#CD96CD"; loops:
Animation.Infinite }
                }
            }
        }
    }
}
```

```
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*****************************************************************/

import QtQuick 1.0

Item {
  id: progressbar

  property int minimum: 0
  property int maximum: 100
  property int value: 0
  property alias color: gradient1.color
  property alias secondColor: gradient2.color
```

```
      width: 250; height: 23
      clip: true

      BorderImage {
          source: "background.png"
          width: parent.width; height: parent.height
          border { left: 4; top: 4; right: 4; bottom: 4 }
      }

      Rectangle {
          id: highlight

          property int widthDest: ((progressbar.width * (value - minimum)) / (maximum - minimum) - 6)

          width: highlight.widthDest
          Behavior on width { SmoothedAnimation { velocity: 1200 } }

          anchors { left: parent.left; top: parent.top; bottom: parent.bottom; margins: 3 }
          radius: 1
          gradient: Gradient {
              GradientStop { id: gradient1; position: 0.0 }
              GradientStop { id: gradient2; position: 1.0 }
          }

      }
      Text {
          anchors { right: highlight.right; rightMargin: 6; verticalCenter: parent.verticalCenter }
          color: "white"
          font.bold: true
          text: Math.floor((value - minimum) / (maximum - minimum) * 100) + '%'
      }
}
# This is the qmake project file for the QPy support code for the QtDesigner
# module.
#
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```
CONFIG     += designer static plugin warn_on
TARGET     = qpydesigner
TEMPLATE   = lib

HEADERS  = \
        qpydesignercontainerextension.h \
        qpydesignercustomwidgetcollectionplugin.h \
        qpydesignercustomwidgetplugin.h \
        qpydesignermembersheetextension.h \
        qpydesignerpropertysheetextension.h \
        qpydesignertaskmenuextension.h
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```

```
import QtQuick 1.0

Rectangle {
    id: page
    width: 500; height: 250
    color: "#edecec"

    MouseArea {
        anchors.fill: parent
        onClicked: page.focus = false;
    }
    Column {
        anchors { horizontalCenter: parent.horizontalCenter; verticalCenter: parent.verticalCenter }
        spacing: 10

        SearchBox { id: search1; KeyNavigation.tab: search2; KeyNavigation.backtab: search3; focus: true }
        SearchBox { id: search2; KeyNavigation.tab: search3; KeyNavigation.backtab: search1 }
        SearchBox { id: search3; KeyNavigation.tab: search1; KeyNavigation.backtab: search2 }
    }
}
```

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****************************************************************************/

import QtQuick 1.0

FocusScope {
  id: focusScope
  width: 250; height: 28

  BorderImage {
    source: "images/lineedit-bg.png"
    width: parent.width; height: parent.height
    border { left: 4; top: 4; right: 4; bottom: 4 }
  }

  BorderImage {
    source: "images/lineedit-bg-focus.png"
    width: parent.width; height: parent.height
    border { left: 4; top: 4; right: 4; bottom: 4 }
    visible: parent.activeFocus ? true : false
  }

  Text {
    id: typeSomething
    anchors.fill: parent; anchors.leftMargin: 8
    verticalAlignment: Text.AlignVCenter
    text: "Type something..."
    color: "gray"
    font.italic: true
```

```
    }

    MouseArea {
      anchors.fill: parent
      onClicked: { focusScope.focus = true; textInput.openSoftwareInputPanel(); }
    }

    TextInput {
      id: textInput
      anchors { left: parent.left; leftMargin: 8; right: clear.left; rightMargin: 8; verticalCenter: parent.verticalCenter }
      focus: true
      selectByMouse: true
    }

    Image {
      id: clear
      anchors { right: parent.right; rightMargin: 8; verticalCenter: parent.verticalCenter }
      source: "images/clear.png"
      opacity: 0

      MouseArea {
        anchors.fill: parent
        onClicked: { textInput.text = ''; focusScope.focus = true; textInput.openSoftwareInputPanel(); }
      }
    }

    states: State {
      name: "hasText"; when: textInput.text != ''
      PropertyChanges { target: typeSomething; opacity: 0 }
      PropertyChanges { target: clear; opacity: 1 }
    }

    transitions: [
      Transition {
        from: ""; to: "hasText"
        NumberAnimation { exclude: typeSomething; properties: "opacity" }
      },
      Transition {
        from: "hasText"; to: ""
        NumberAnimation { properties: "opacity" }
      }
    ]
}
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```

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****************************************************************************/

import QtQuick 1.0
import "content"

Rectangle {
    width: 240; height: 320

    Column {
        y: 20; x: 20; spacing: 20

        Spinner {
            id: spinner
            width: 200; height: 240
            focus: true
            model: 20
            itemHeight: 30
```

```
        delegate: Text { font.pixelSize: 25; text: index; height: 30 }
    }

    Text { text: "Current item index: " + spinner.currentIndex }
  }
}
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****************************************************************************/

import QtQuick 1.0

Image {
  property alias model: view.model
```

```
            property alias delegate: view.delegate
            property alias currentIndex: view.currentIndex
            property real itemHeight: 30

            source: "spinner-bg.png"
            clip: true

            PathView {
                id: view
                anchors.fill: parent

                pathItemCount: height/itemHeight
                preferredHighlightBegin: 0.5
                preferredHighlightEnd: 0.5
                highlight: Image { source: "spinner-select.png"; width: view.width; height: itemHeight+4 }
                dragMargin: view.width/2

                path: Path {
                    startX: view.width/2; startY: -itemHeight/2
                    PathLine { x: view.width/2; y: view.pathItemCount*itemHeight + itemHeight }
                }
            }

            Keys.onDownPressed: view.incrementCurrentIndex()
            Keys.onUpPressed: view.decrementCurrentIndex()
}
<ui version="4.0" >
<author></author>
<comment></comment>
<exportmacro></exportmacro>
<class>CalculatorForm</class>
<widget class="QWidget" name="CalculatorForm" >
 <property name="objectName" >
  <string notr="true" >CalculatorForm</string>
 </property>
 <property name="geometry" >
  <rect>
   <x>0</x>
   <y>0</y>
   <width>400</width>
   <height>300</height>
  </rect>
 </property>
 <property name="sizePolicy" >
  <sizepolicy>
   <hsizetype>5</hsizetype>
   <vsizetype>5</vsizetype>
   <horstretch>0</horstretch>
```

```xml
    <verstretch>0</verstretch>
   </sizepolicy>
  </property>
  <property name="windowTitle" >
   <string>Calculator Form</string>
  </property>
  <layout class="QGridLayout" >
   <property name="objectName" >
    <string notr="true" />
   </property>
   <property name="margin" >
    <number>9</number>
   </property>
   <property name="spacing" >
    <number>6</number>
   </property>
   <item row="0" column="6" >
    <spacer>
     <property name="objectName" >
      <string notr="true" >horizontalSpacer</string>
     </property>
     <property name="geometry" >
      <rect>
       <x>239</x>
       <y>9</y>
       <width>152</width>
       <height>52</height>
      </rect>
     </property>
     <property name="orientation" >
      <enum>Qt::Horizontal</enum>
     </property>
     <property name="sizeHint" >
      <size>
       <width>40</width>
       <height>20</height>
      </size>
     </property>
    </spacer>
   </item>
   <item row="0" column="4" >
    <widget class="QLabel" name="label_3_2" >
     <property name="objectName" >
      <string notr="true" >label_3_2</string>
     </property>
     <property name="geometry" >
      <rect>
       <x>169</x>
```

```xml
        <y>9</y>
        <width>20</width>
        <height>52</height>
       </rect>
      </property>
      <property name="text" >
       <string>=</string>
      </property>
      <property name="alignment" >
       <set>Qt::AlignCenter</set>
      </property>
     </widget>
    </item>
    <item row="0" column="5" >
     <layout class="QVBoxLayout" >
      <property name="objectName" >
       <string notr="true" />
      </property>
      <property name="margin" >
       <number>1</number>
      </property>
      <property name="spacing" >
       <number>6</number>
      </property>
      <item>
       <widget class="QLabel" name="label_2_2_2" >
        <property name="objectName" >
         <string notr="true" >label_2_2_2</string>
        </property>
        <property name="geometry" >
         <rect>
          <x>1</x>
          <y>1</y>
          <width>36</width>
          <height>17</height>
         </rect>
        </property>
        <property name="text" >
         <string>Output</string>
        </property>
       </widget>
      </item>
      <item>
       <widget class="QLabel" name="outputWidget" >
        <property name="objectName" >
         <string notr="true" >outputWidget</string>
        </property>
        <property name="geometry" >
```

```xml
      <rect>
       <x>1</x>
       <y>24</y>
       <width>36</width>
       <height>27</height>
      </rect>
     </property>
     <property name="frameShape" >
      <enum>QFrame::Box</enum>
     </property>
     <property name="frameShadow" >
      <enum>QFrame::Sunken</enum>
     </property>
     <property name="text" >
      <string>0</string>
     </property>
     <property name="alignment" >
<set>Qt::AlignAbsolute|Qt::AlignBottom|Qt::AlignCenter|Qt::AlignHCenter|Qt::AlignHorizontal_Mask|Qt::AlignJu
stify|Qt::AlignLeading|Qt::AlignLeft|Qt::AlignRight|Qt::AlignTop|Qt::AlignTrailing|Qt::AlignVCenter|Qt::AlignVe
rtical_Mask</set>
     </property>
    </widget>
   </item>
  </layout>
 </item>
 <item row="1" column="2" >
  <spacer>
   <property name="objectName" >
    <string notr="true" >verticalSpacer</string>
   </property>
   <property name="geometry" >
    <rect>
     <x>89</x>
     <y>67</y>
     <width>20</width>
     <height>224</height>
    </rect>
   </property>
   <property name="orientation" >
    <enum>Qt::Vertical</enum>
   </property>
   <property name="sizeHint" >
    <size>
     <width>20</width>
     <height>40</height>
    </size>
   </property>
  </spacer>
```

```xml
    </item>
    <item row="0" column="3" >
     <layout class="QVBoxLayout" >
      <property name="objectName" >
       <string notr="true" />
      </property>
      <property name="margin" >
       <number>1</number>
      </property>
      <property name="spacing" >
       <number>6</number>
      </property>
      <item>
       <widget class="QLabel" name="label_2" >
        <property name="objectName" >
         <string notr="true" >label_2</string>
        </property>
        <property name="geometry" >
         <rect>
          <x>1</x>
          <y>1</y>
          <width>46</width>
          <height>19</height>
         </rect>
        </property>
        <property name="text" >
         <string>Input 2</string>
        </property>
       </widget>
      </item>
      <item>
       <widget class="QSpinBox" name="inputSpinBox2" >
        <property name="objectName" >
         <string notr="true" >inputSpinBox2</string>
        </property>
        <property name="geometry" >
         <rect>
          <x>1</x>
          <y>26</y>
          <width>46</width>
          <height>25</height>
         </rect>
        </property>
       </widget>
      </item>
     </layout>
    </item>
    <item row="0" column="1" >
```

```xml
<widget class="QLabel" name="label_3" >
 <property name="objectName" >
 <string notr="true" >label_3</string>
 </property>
 <property name="geometry" >
 <rect>
  <x>63</x>
  <y>9</y>
  <width>20</width>
  <height>52</height>
 </rect>
 </property>
 <property name="text" >
 <string>+</string>
 </property>
 <property name="alignment" >
 <set>Qt::AlignCenter</set>
 </property>
 </widget>
</item>
<item row="0" column="0" >
 <layout class="QVBoxLayout" >
 <property name="objectName" >
 <string notr="true" />
 </property>
 <property name="margin" >
 <number>1</number>
 </property>
 <property name="spacing" >
 <number>6</number>
 </property>
 <item>
 <widget class="QLabel" name="label" >
  <property name="objectName" >
  <string notr="true" >label</string>
  </property>
  <property name="geometry" >
  <rect>
   <x>1</x>
   <y>1</y>
   <width>46</width>
   <height>19</height>
  </rect>
  </property>
  <property name="text" >
  <string>Input 1</string>
  </property>
 </widget>
```

```
    </item>
    <item>
     <widget class="QSpinBox" name="inputSpinBox1" >
      <property name="objectName" >
       <string notr="true" >inputSpinBox1</string>
      </property>
      <property name="geometry" >
       <rect>
        <x>1</x>
        <y>26</y>
        <width>46</width>
        <height>25</height>
       </rect>
      </property>
     </widget>
    </item>
   </layout>
  </item>
 </layout>
</widget>
<pixmapfunction></pixmapfunction>
<resources/>
<connections/>
</ui>
<RCC>
  <qresource prefix="/" >
     <file>images/head.png</file>
  </qresource>
</RCC>
<RCC>
  <qresource prefix="/" >
     <file>images/cheese.jpg</file>
  </qresource>
</RCC>
<RCC>
<qresource>
 <file>images/blue_angle_swirl.jpg</file>
 <file>images/artsfftscope.png</file>
 <file>images/kontact_contacts.png</file>
 <file>images/kontact_journal.png</file>
 <file>images/kontact_mail.png</file>
 <file>images/kontact_notes.png</file>
 <file>images/kopeteavailable.png</file>
 <file>images/metacontact_online.png</file>
 <file>images/minitools.png</file>
 <file>images/blue_angle_swirl.jpg</file>
</qresource>
</RCC>
```

```
<ui version="4.0" >
<class>BackSide</class>
<widget class="QWidget" name="BackSide" >
 <property name="geometry" >
  <rect>
   <x>0</x>
   <y>0</y>
   <width>378</width>
   <height>385</height>
  </rect>
 </property>
 <property name="windowTitle" >
  <string>BackSide</string>
 </property>
 <layout class="QVBoxLayout" name="verticalLayout_2" >
  <item>
   <widget class="QGroupBox" name="groupBox" >
    <property name="title" >
     <string>Settings</string>
    </property>
    <property name="flat" >
     <bool>true</bool>
    </property>
    <property name="checkable" >
     <bool>true</bool>
    </property>
    <layout class="QGridLayout" name="gridLayout" >
     <item row="0" column="0" >
      <widget class="QLabel" name="label" >
       <property name="text" >
        <string>Title:</string>
       </property>
      </widget>
     </item>
     <item row="0" column="1" >
      <widget class="QLineEdit" name="hostName" >
       <property name="text" >
        <string>Pad Navigator Example</string>
       </property>
      </widget>
     </item>
     <item row="1" column="0" >
      <widget class="QLabel" name="label_2" >
       <property name="text" >
        <string>Modified:</string>
       </property>
      </widget>
     </item>
```

```xml
      <item row="2" column="0" >
       <widget class="QLabel" name="label_3" >
        <property name="text" >
         <string>Extent</string>
        </property>
       </widget>
      </item>
      <item row="2" column="1" >
       <layout class="QHBoxLayout" name="horizontalLayout" >
        <item>
         <widget class="QSlider" name="horizontalSlider" >
          <property name="value" >
           <number>42</number>
          </property>
          <property name="orientation" >
           <enum>Qt::Horizontal</enum>
          </property>
         </widget>
        </item>
        <item>
         <widget class="QSpinBox" name="spinBox" >
          <property name="value" >
           <number>42</number>
          </property>
         </widget>
        </item>
       </layout>
      </item>
      <item row="1" column="1" >
       <widget class="QDateTimeEdit" name="dateTimeEdit" />
      </item>
     </layout>
    </widget>
   </item>
   <item>
    <widget class="QGroupBox" name="groupBox_2" >
     <property name="title" >
      <string>Other input</string>
     </property>
     <property name="flat" >
      <bool>true</bool>
     </property>
     <property name="checkable" >
      <bool>true</bool>
     </property>
     <layout class="QHBoxLayout" name="horizontalLayout_2" >
      <item>
       <widget class="QTreeWidget" name="treeWidget" >
```

```xml
<column>
 <property name="text" >
 <string>Widgets On Graphics View</string>
 </property>
</column>
<item>
 <property name="text" >
 <string>QGraphicsProxyWidget</string>
 </property>
 <item>
 <property name="text" >
 <string>QGraphicsWidget</string>
 </property>
 <item>
 <property name="text" >
  <string>QObject</string>
 </property>
 </item>
 <item>
 <property name="text" >
  <string>QGraphicsItem</string>
 </property>
 </item>
 <item>
 <property name="text" >
  <string>QGraphicsLayoutItem</string>
 </property>
 </item>
 </item>
</item>
<item>
 <property name="text" >
 <string>QGraphicsGridLayout</string>
 </property>
 <item>
 <property name="text" >
 <string>QGraphicsLayout</string>
 </property>
 <item>
 <property name="text" >
  <string>QGraphicsLayoutItem</string>
 </property>
 </item>
 </item>
</item>
<item>
 <property name="text" >
 <string>QGraphicsLinearLayout</string>
```

```xml
      </property>
      <item>
       <property name="text" >
        <string>QGraphicsLayout</string>
       </property>
       <item>
        <property name="text" >
         <string>QGraphicsLayoutItem</string>
        </property>
       </property>
       </item>
      </item>
     </item>
    </widget>
   </item>
  </layout>
 </widget>
 </item>
 </layout>
</widget>
<tabstops>
 <tabstop>groupBox</tabstop>
 <tabstop>hostName</tabstop>
 <tabstop>dateTimeEdit</tabstop>
 <tabstop>horizontalSlider</tabstop>
 <tabstop>spinBox</tabstop>
 <tabstop>groupBox_2</tabstop>
 <tabstop>treeWidget</tabstop>
</tabstops>
<resources/>
<connections>
 <connection>
  <sender>horizontalSlider</sender>
  <signal>valueChanged(int)</signal>
  <receiver>spinBox</receiver>
  <slot>setValue(int)</slot>
  <hints>
   <hint type="sourcelabel" >
    <x>184</x>
    <y>125</y>
   </hint>
   <hint type="destinationlabel" >
    <x>275</x>
    <y>127</y>
   </hint>
  </hints>
 </connection>
 <connection>
  <sender>spinBox</sender>
```

```xml
<signal>valueChanged(int)</signal>
<receiver>horizontalSlider</receiver>
<slot>setValue(int)</slot>
<hints>
 <hint type="sourcelabel" >
  <x>272</x>
  <y>114</y>
 </hint>
 <hint type="destinationlabel" >
  <x>190</x>
  <y>126</y>
 </hint>
</hints>
 </connection>
</connections>
</ui>
<ui version="4.0" >
<author></author>
<comment></comment>
<exportmacro></exportmacro>
<class>ChatMainWindow</class>
<widget class="QMainWindow" name="ChatMainWindow" >
 <property name="geometry" >
  <rect>
   <x>0</x>
   <y>0</y>
   <width>800</width>
   <height>600</height>
  </rect>
 </property>
 <property name="windowTitle" >
  <string>QtDBus Chat</string>
 </property>
 <widget class="QWidget" name="centralwidget" >
  <layout class="QHBoxLayout" >
   <property name="margin" >
    <number>9</number>
   </property>
   <property name="spacing" >
    <number>6</number>
   </property>
   <item>
    <layout class="QVBoxLayout" >
     <property name="margin" >
      <number>0</number>
     </property>
     <property name="spacing" >
      <number>6</number>
```

```xml
</property>
<item>
 <widget class="QTextBrowser" name="chatHistory" >
 <property name="acceptDrops" >
  <bool>false</bool>
 </property>
 <property name="toolTip" >
  <string>Messages sent and received from other users</string>
 </property>
 <property name="acceptRichText" >
  <bool>true</bool>
 </property>
 </widget>
</item>
<item>
 <layout class="QHBoxLayout" >
 <property name="margin" >
  <number>0</number>
 </property>
 <property name="spacing" >
  <number>6</number>
 </property>
 <item>
 <widget class="QLabel" name="label" >
  <property name="text" >
   <string>Message:</string>
  </property>
  <property name="buddy" >
   <cstring>messageLineEdit</cstring>
  </property>
 </widget>
 </item>
 <item>
 <widget class="QLineEdit" name="messageLineEdit" />
 </item>
 <item>
 <widget class="QPushButton" name="sendButton" >
  <property name="sizePolicy" >
   <sizepolicy>
    <hsizetype>1</hsizetype>
    <vsizetype>0</vsizetype>
    <horstretch>0</horstretch>
    <verstretch>0</verstretch>
   </sizepolicy>
  </property>
  <property name="toolTip" >
   <string>Sends a message to other people</string>
  </property>
```

```xml
            <property name="whatsThis" >
             <string/>
            </property>
            <property name="text" >
             <string>Send</string>
            </property>
           </widget>
          </item>
         </layout>
        </item>
       </layout>
      </widget>
      <widget class="QMenuBar" name="menubar" >
       <property name="geometry" >
        <rect>
         <x>0</x>
         <y>0</y>
         <width>800</width>
         <height>31</height>
        </rect>
       </property>
       <widget class="QMenu" name="menuQuit" >
        <property name="title" >
         <string>Help</string>
        </property>
        <addaction name="actionAboutQt" />
       </widget>
       <widget class="QMenu" name="menuFile" >
        <property name="title" >
         <string>File</string>
        </property>
        <addaction name="actionChangeNickname" />
        <addaction name="separator" />
        <addaction name="actionQuit" />
       </widget>
       <addaction name="menuFile" />
       <addaction name="menuQuit" />
      </widget>
      <widget class="QStatusBar" name="statusbar" />
      <action name="actionQuit" >
       <property name="text" >
        <string>Quit</string>
       </property>
       <property name="shortcut" >
        <string>Ctrl+Q</string>
       </property>
```

```
      </action>
      <action name="actionAboutQt" >
       <property name="text" >
        <string>About Qt...</string>
       </property>
      </action>
      <action name="actionChangeNickname" >
       <property name="text" >
        <string>Change nickname...</string>
       </property>
       <property name="shortcut" >
        <string>Ctrl+N</string>
       </property>
      </action>
     </widget>
     <pixmapfunction></pixmapfunction>
     <tabstops>
      <tabstop>chatHistory</tabstop>
      <tabstop>messageLineEdit</tabstop>
      <tabstop>sendButton</tabstop>
     </tabstops>
     <resources/>
     <connections>
      <connection>
       <sender>messageLineEdit</sender>
       <signal>returnPressed()</signal>
       <receiver>sendButton</receiver>
       <slot>animateClick()</slot>
       <hints>
        <hint type="sourcelabel" >
         <x>299</x>
         <y>554</y>
        </hint>
        <hint type="destinationlabel" >
         <x>744</x>
         <y>551</y>
        </hint>
       </hints>
      </connection>
      <connection>
       <sender>actionQuit</sender>
       <signal>triggered(bool)</signal>
       <receiver>ChatMainWindow</receiver>
       <slot>close()</slot>
       <hints>
        <hint type="sourcelabel" >
         <x>-1</x>
         <y>-1</y>
```

```
        </hint>
        <hint type="destinationlabel" >
         <x>399</x>
         <y>299</y>
        </hint>
       </hints>
      </connection>
     </connections>
    </ui>
    # This is the qmake project file for the QPy support code for the QtGui module.
    #
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    CONFIG      += static warn_on
    TARGET      = qpygui
    TEMPLATE    = lib

    HEADERS   = \
            qpytextobject.h
    <ui version="4.0" >
    <author></author>
    <comment></comment>
    <exportmacro></exportmacro>
    <class>NicknameDialog</class>
    <widget class="QDialog" name="NicknameDialog" >
     <property name="geometry" >
      <rect>
```

```xml
  <x>0</x>
  <y>0</y>
  <width>396</width>
  <height>105</height>
 </rect>
</property>
<property name="sizePolicy" >
 <sizepolicy>
  <hsizetype>1</hsizetype>
  <vsizetype>1</vsizetype>
  <horstretch>0</horstretch>
  <verstretch>0</verstretch>
 </sizepolicy>
</property>
<property name="windowTitle" >
 <string>Set nickname</string>
</property>
<layout class="QVBoxLayout" >
 <property name="margin" >
  <number>9</number>
 </property>
 <property name="spacing" >
  <number>6</number>
 </property>
 <item>
  <layout class="QVBoxLayout" >
   <property name="margin" >
    <number>0</number>
   </property>
   <property name="spacing" >
    <number>6</number>
   </property>
   <item>
    <widget class="QLabel" name="label" >
     <property name="sizePolicy" >
      <sizepolicy>
       <hsizetype>1</hsizetype>
       <vsizetype>1</vsizetype>
       <horstretch>0</horstretch>
       <verstretch>0</verstretch>
      </sizepolicy>
     </property>
     <property name="text" >
      <string>New nickname:</string>
     </property>
    </widget>
   </item>
   <item>
```

```
        <widget class="QLineEdit" name="nickname" />
       </item>
      </layout>
     </item>
     <item>
     <layout class="QHBoxLayout" >
      <property name="margin" >
       <number>0</number>
      </property>
      <property name="spacing" >
       <number>6</number>
      </property>
      <item>
      <spacer>
       <property name="orientation" >
        <enum>Qt::Horizontal</enum>
       </property>
       <property name="sizeHint" >
        <size>
         <width>131</width>
         <height>31</height>
        </size>
       </property>
      </spacer>
      </item>
      <item>
      <widget class="QPushButton" name="okButton" >
       <property name="text" >
        <string>OK</string>
       </property>
      </widget>
      </item>
      <item>
      <widget class="QPushButton" name="cancelButton" >
       <property name="text" >
        <string>Cancel</string>
       </property>
      </widget>
      </item>
      <item>
      <spacer>
       <property name="orientation" >
        <enum>Qt::Horizontal</enum>
       </property>
       <property name="sizeHint" >
        <size>
         <width>40</width>
         <height>20</height>
```

```
        </size>
      </property>
     </spacer>
    </item>
   </layout>
  </item>
 </layout>
</widget>
<pixmapfunction></pixmapfunction>
<resources/>
<connections>
 <connection>
  <sender>okButton</sender>
  <signal>clicked()</signal>
  <receiver>NicknameDialog</receiver>
  <slot>accept()</slot>
  <hints>
   <hint type="sourcelabel" >
    <x>278</x>
    <y>253</y>
   </hint>
   <hint type="destinationlabel" >
    <x>96</x>
    <y>254</y>
   </hint>
  </hints>
 </connection>
 <connection>
  <sender>cancelButton</sender>
  <signal>clicked()</signal>
  <receiver>NicknameDialog</receiver>
  <slot>reject()</slot>
  <hints>
   <hint type="sourcelabel" >
    <x>369</x>
    <y>253</y>
   </hint>
   <hint type="destinationlabel" >
    <x>179</x>
    <y>282</y>
   </hint>
  </hints>
 </connection>
</connections>
</ui>
<ui version="4.0" >
<class>Controller</class>
<widget class="QWidget" name="Controller" >
```

```xml
<property name="geometry" >
 <rect>
  <x>0</x>
  <y>0</y>
  <width>255</width>
  <height>111</height>
 </rect>
</property>
<property name="windowTitle" >
 <string>Controller</string>
</property>
<layout class="QGridLayout" >
 <property name="margin" >
  <number>9</number>
 </property>
 <property name="spacing" >
  <number>6</number>
 </property>
 <item row="1" column="1" >
  <widget class="QLabel" name="label" >
   <property name="text" >
    <string>Controller</string>
   </property>
   <property name="alignment" >
    <set>Qt::AlignCenter</set>
   </property>
  </widget>
 </item>
 <item row="2" column="1" >
  <widget class="QPushButton" name="decelerate" >
   <property name="text" >
    <string>Decelerate</string>
   </property>
  </widget>
 </item>
 <item row="0" column="1" >
  <widget class="QPushButton" name="accelerate" >
   <property name="text" >
    <string>Accelerate</string>
   </property>
  </widget>
 </item>
 <item row="1" column="2" >
  <widget class="QPushButton" name="right" >
   <property name="text" >
    <string>Right</string>
   </property>
  </widget>
```

```
  </item>
  <item row="1" column="0" >
   <widget class="QPushButton" name="left" >
    <property name="text" >
     <string>Left</string>
    </property>
   </widget>
  </item>
 </layout>
</widget>
<resources/>
<connections/>
</ui>
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****************************************************************************/

import QtQuick 1.0
import "MinehuntCore" 1.0

Item {
    id: field
    property int clickx: 0
    property int clicky: 0

    width: 450; height: 450

    Image { source: "MinehuntCore/pics/No-Ones-Laughing-3.jpg"; anchors.fill: parent; fillMode: Image.Tile }

    Grid {
        anchors.horizontalCenter: parent.horizontalCenter
        columns: 9; spacing: 1

        Repeater {
            id: repeater
            model: tiles
            delegate: Tile {}
        }
    }

    Row {
        id: gamedata
        x: 20; spacing: 20
        anchors.bottom: field.bottom; anchors.bottomMargin: 15

        Image {
            source: "MinehuntCore/pics/quit.png"
            scale: quitMouse.pressed ? 0.8 : 1.0
            smooth: quitMouse.pressed
            y: 10
            MouseArea {
                id: quitMouse
                anchors.fill: parent
                anchors.margins: -20
                onClicked: Qt.quit()
            }
        }
        Column {
            spacing: 2
```

```
            Image { source: "MinehuntCore/pics/bomb-color.png" }
            Text { anchors.horizontalCenter: parent.horizontalCenter; color: "white"; text: numMines }
        }

        Column {
            spacing: 2
            Image { source: "MinehuntCore/pics/flag-color.png" }
            Text { anchors.horizontalCenter: parent.horizontalCenter; color: "white"; text: numFlags }
        }
    }

    Image {
        anchors.bottom: field.bottom; anchors.bottomMargin: 15
        anchors.right: field.right; anchors.rightMargin: 20
        source: isPlaying ? 'MinehuntCore/pics/face-smile.png' :
            hasWon ? 'MinehuntCore/pics/face-smile-big.png': 'MinehuntCore/pics/face-sad.png'

        MouseArea { anchors.fill: parent; onPressed: reset() }
    }
    Text {
        anchors.centerIn: parent; width: parent.width - 20
        horizontalAlignment: Text.AlignHCenter
        wrapMode: Text.WordWrap
        text: "Minehunt will not run properly if the C++ plugin is not compiled.\n\nPlease see README."
        color: "white"; font.bold: true; font.pixelSize: 14
        visible: tiles == undefined
    }

}
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****************************************************************************/

import QtQuick 1.0
import Qt.labs.particles 1.0

Item {
    property bool explode : false

    Particles {
        id: particles
        width: 40
        height: 40
        lifeSpan: 1000
        lifeSpanDeviation: 0
        source: "pics/star.png"
        count: 0
        angle: 270
        angleDeviation: 360
        velocity: 100
        velocityDeviation: 20
        z: 100
    }
    states: State { name: "exploding"; when: explode
        StateChangeScript {script: particles.burst(200); }
    }

}
```

Explosion 1.0 Explosion.qml

Tile 1.0 Tile.qml

```
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****************************************************************************/

import QtQuick 1.0

Flipable {
    id: flipable
    property int angle: 0
```

```
width: 40;  height: 40
transform: Rotation { origin.x: 20; origin.y: 20; axis.x: 1; axis.z: 0; angle: flipable.angle }

front: Image {
   source: "pics/front.png"; width: 40; height: 40

   Image {
      anchors.centerIn: parent
      source: "pics/flag.png"; opacity: modelData.hasFlag

      Behavior on opacity { NumberAnimation {} }
   }
}

back: Image {
   source: "pics/back.png"
   width: 40; height: 40

   Text {
      anchors.centerIn: parent
      text: modelData.hint; color: "white"; font.bold: true
      opacity: !modelData.hasMine && modelData.hint > 0
   }

   Image {
      anchors.centerIn: parent
      source: "pics/bomb.png"; opacity: modelData.hasMine
   }

   Explosion { id: expl }
}

states: State {
   name: "back"; when: modelData.flipped
   PropertyChanges { target: flipable; angle: 180 }
}

property real pauseDur: 250
transitions: Transition {
   SequentialAnimation {
      ScriptAction {
         script: {
            var ret = Math.abs(flipable.x - field.clickx)
               + Math.abs(flipable.y - field.clicky);
            if (modelData.hasMine && modelData.flipped)
               pauseDur = ret * 3
            else
```

```
                pauseDur = ret
            }
        }
        PauseAnimation {
            duration: pauseDur
        }
        RotationAnimation { easing.type: Easing.InOutQuad }
        ScriptAction { script: if (modelData.hasMine && modelData.flipped) { expl.explode = true } }
    }
  }

  MouseArea {
    anchors.fill: parent
    acceptedButtons: Qt.LeftButton | Qt.RightButton
    onClicked: {
        field.clickx = flipable.x
        field.clicky = flipable.y
        var row = Math.floor(index / 9)
        var col = index - (Math.floor(index / 9) * 9)
        if (mouse.button == undefined || mouse.button == Qt.RightButton) {
            flag(row, col)
        } else {
            flip(row, col)
        }
    }
    onPressAndHold: {
        field.clickx = flipable.x
        field.clicky = flipable.y
        var row = Math.floor(index / 9)
        var col = index - (Math.floor(index / 9) * 9)
        flag(row, col)
    }
  }
}
<?xml version="1.0" encoding="ISO-8859-1"?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
 <html>
 <head><title>SameGame High Scores</title></head>
 <body>
 <h2>SameGame High Scores</h2>
  <table border="1">
   <tr bgcolor="lightsteelblue">
    <th>Name</th>
    <th>Score</th>
    <th>Grid Size</th>
    <th>Time, s</th>
   </tr>
```

```
    <xsl:for-each select="records/record">
    <xsl:sort select="score" data-type="number" order="descending"/>
    <tr>
     <td><xsl:value-of select="name"/></td>
     <td><xsl:value-of select="score"/></td>
     <td><xsl:value-of select="gridSize"/></td>
     <td><xsl:value-of select="seconds"/></td>
    </tr>
    </xsl:for-each>
   </table>
  </body>
 </html>
</xsl:template>
</xsl:stylesheet>
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```

```
import QtQuick 1.0

Rectangle {
    id: page

    property Item text: dialogText

    signal closed
    signal opened
    function forceClose() {
        if(page.opacity == 0)
            return; //already closed
        page.closed();
        page.opacity = 0;
    }

    function show(txt) {
        page.opened();
        dialogText.text = txt;
        page.opacity = 1;
    }

    width: dialogText.width + 20; height: dialogText.height + 20
    color: "white"
    border.width: 1
    opacity: 0
    visible: opacity > 0
    Behavior on opacity {
        NumberAnimation { duration: 1000 }
    }

    Text { id: dialogText; anchors.centerIn: parent; text: "Hello World!" }

    MouseArea { anchors.fill: parent; onClicked: forceClose(); }
}
/**************************************************************************
**
```

```
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**
****************************************************************************/

import QtQuick 1.0
import Qt.labs.particles 1.0

Item {
    id: block
    property bool dying: false
    property bool spawned: false
    property int type: 0

    Behavior on x {
        enabled: spawned;
        SpringAnimation{ spring: 2; damping: 0.2 }
    }
```

```
Behavior on y {
    SpringAnimation{ spring: 2; damping: 0.2 }
}

Image {
    id: img
    source: {
        if(type == 0){
            "pics/redStone.png";
        } else if(type == 1) {
            "pics/blueStone.png";
        } else {
            "pics/greenStone.png";
        }
    }
    opacity: 0
    Behavior on opacity { NumberAnimation { duration: 200 } }
    anchors.fill: parent
}

Particles {
    id: particles

    width: 1; height: 1
    anchors.centerIn: parent

    emissionRate: 0
    lifeSpan: 700; lifeSpanDeviation: 600
    angle: 0; angleDeviation: 360;
    velocity: 100; velocityDeviation: 30
    source: {
        if(type == 0){
            "pics/redStar.png";
        } else if (type == 1) {
            "pics/blueStar.png";
        } else {
            "pics/greenStar.png";
        }
    }
}

states: [
    State {
        name: "AliveState"; when: spawned == true && dying == false
        PropertyChanges { target: img; opacity: 1 }
    },

    State {
```

```
        name: "DeathState"; when: dying == true
        StateChangeScript { script: particles.burst(50); }
        PropertyChanges { target: img; opacity: 0 }
        StateChangeScript { script: block.destroy(1000); }
      }
    ]
  }
}
BoomBlock BoomBlock.qml
Button Button.qml
Dialog Dialog.qml
# This is the qmake project file for the QPy support code for the QtOpenGL
# module.
#
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QT        += opengl
CONFIG     += static warn_on
TARGET     = qpyopengl
TEMPLATE   = lib

SOURCES   = \
        qpyopengl_attribute_array.cpp \
        qpyopengl_uniform_value_array.cpp

HEADERS   = \
        qpyopengl_api.h
```

```
import QtQuick 1.0

Rectangle {
    id: container

    property string text: "Button"
```

```
    signal clicked

    width: buttonLabel.width + 20; height: buttonLabel.height + 6
    smooth: true
    border { width: 1; color: Qt.darker(activePalette.button) }
    radius: 8
    color: activePalette.button

    gradient: Gradient {
        GradientStop {
            position: 0.0
            color: {
                if (mouseArea.pressed)
                    return activePalette.dark
                else
                    return activePalette.light
            }
        }
        GradientStop { position: 1.0; color: activePalette.button }
    }

    MouseArea { id: mouseArea; anchors.fill: parent; onClicked: container.clicked() }

    Text {
        id: buttonLabel; text: container.text; anchors.centerIn: container; color: activePalette.buttonText
    }
}
```

```
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```

```
import QtQuick 1.0
import "SamegameCore"
import "SamegameCore/samegame.js" as Logic

Rectangle {
    id: screen
    width: 490; height: 720
    property bool inAnotherDemo: false //Samegame often is just plonked straight into other demos

    SystemPalette { id: activePalette }

    Item {
        width: parent.width
        anchors { top: parent.top; bottom: toolBar.top }

        Image {
            id: background
            anchors.fill: parent
            source: "SamegameCore/pics/background.png"
            fillMode: Image.PreserveAspectCrop
        }

        Item {
            id: gameCanvas
            property int score: 0
            property int blockSize: 40

            z: 20; anchors.centerIn: parent
```

```
          width: parent.width - (parent.width % blockSize);
          height: parent.height - (parent.height % blockSize);

          MouseArea {
             anchors.fill: parent; onClicked: Logic.handleClick(mouse.x,mouse.y);
          }
       }
    }

    Dialog { id: dialog; anchors.centerIn: parent; z: 21 }

    Dialog {
       id: nameInputDialog

       property int initialWidth: 0

       anchors.centerIn: parent
       z: 22;

       Behavior on width {
          NumberAnimation {}
          enabled: nameInputDialog.initialWidth != 0
       }

       onOpened: nameInputText.focus = true;
       onClosed: {
          nameInputText.focus = false;
          if (nameInputText.text != "")
             Logic.saveHighScore(nameInputText.text);
       }
       Text {
          id: dialogText
          anchors { left: nameInputDialog.left; leftMargin: 20; verticalCenter: parent.verticalCenter }
          text: "You won! Please enter your name: "
       }
       MouseArea {
          anchors.fill: parent
          onClicked: {
             if (nameInputText.text == "")
                nameInputText.openSoftwareInputPanel();
             else
                nameInputDialog.forceClose();
          }
       }

       TextInput {
          id: nameInputText
          anchors { verticalCenter: parent.verticalCenter; left: dialogText.right }
```

```
                focus: false
                autoScroll: false
                maximumLength: 24
                onTextChanged: {
                    var newWidth = nameInputText.width + dialogText.width + 40;
                    if ( (newWidth > nameInputDialog.width && newWidth < screen.width)
                            || (nameInputDialog.width > nameInputDialog.initialWidth) )
                        nameInputDialog.width = newWidth;
                }
                onAccepted: {
                    nameInputDialog.forceClose();
                }
            }
        }

        Rectangle {
            id: toolBar
            width: parent.width; height: 32
            color: activePalette.window
            anchors.bottom: screen.bottom

            Button {
                id: newGameButton
                anchors { left: parent.left; leftMargin: 3; verticalCenter: parent.verticalCenter }
                text: "New Game"
                onClicked: Logic.startNewGame()
            }

            Button {
                visible: !inAnotherDemo
                text: "Quit"
                anchors { left: newGameButton.right; leftMargin: 3; verticalCenter: parent.verticalCenter }
                onClicked: Qt.quit();
            }

            Text {
                id: score
                anchors { right: parent.right; rightMargin: 3; verticalCenter: parent.verticalCenter }
                text: "Score: " + gameCanvas.score
                font.bold: true
                color: activePalette.windowText
            }
        }
}
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```
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****************************************************************************/

import QtQuick 1.0

Item {
    id: main
    //height and width set by program to fill window
    //below properties are sometimes set from C++
    property url qmlFile: ''
    property bool show: false

    Item{ id:embeddedViewer
        width: parent.width
        height: parent.height
        opacity: 0;
        z: 10
        Loader{
            id: loader
            z: 10
            focus: true //Automatic FocusScope
            clip: true
            source: qmlFile
            anchors.centerIn: parent
            onStatusChanged:{
            if(status == Loader.Null) {
                loader.focus = false;//fixes QTBUG11411, probably because the focusScope needs to gain focus to focus
the right child
                }else if(status == Loader.Ready) {
                    if(loader.item.width > 640)
                        loader.item.width = 640;
                    if(loader.item.height > 480)
                        loader.item.height = 480;
            }}

        }
```

```
Rectangle{ id: frame
    z: 9
    anchors.fill: loader.status == Loader.Ready ? loader : errorTxt
    anchors.margins: -8
    radius: 4
    smooth: true
    border.color: "#88aaaaaa"
    gradient: Gradient{
        GradientStop{ position: 0.0; color: "#14FFFFFF" }
        GradientStop{ position: 1.0; color: "#5AFFFFFF" }
    }
    MouseArea{
        anchors.fill: parent
        acceptedButtons: Qt.LeftButton | Qt.RightButton | Qt.MiddleButton
        onClicked: loader.focus=true;/* and don't propagate to the 'exit' area*/
    }

    Rectangle{ id: innerFrame
        anchors.margins: 7
        anchors.bottomMargin: 8
        anchors.rightMargin: 8
        color: "black"
        border.color: "#44000000"
        anchors.fill:parent
    }

}
Rectangle{ id: closeButton
    width: 24
    height: 24
    z: 11
    border.color: "#aaaaaaaa"
    gradient: Gradient{
        GradientStop{ position: 0.0; color: "#34FFFFFF" }
        GradientStop{ position: 1.0; color: "#7AFFFFFF" }
    }
    anchors.left: frame.right
    anchors.bottom: frame.top
    anchors.margins: -(2*width/3)
    Text{
        text: 'X'
        font.bold: true
        color: "white"
        font.pixelSize: 12
        anchors.centerIn: parent
    }
    MouseArea{
        anchors.fill: parent
```

```
                onClicked: main.show = false;
            }
        }

        Text{
            id: errorTxt
            z: 10
            anchors.centerIn: parent
            color: 'white'
            smooth: true
            visible: loader.status == Loader.Error
            textFormat: Text.RichText
            //Note that if loader is Error, it is because the file was found but there was an error creating the component
            //This means either we have a bug in our demos, or the required modules (which ship with Qt) did not deploy
correctly
            text: "The example has failed to load.<br />If you installed all Qt's C++ and QML modules then this is a
bug!<br />"
                + 'Report it at <a href="http://bugreports.qt-project.org">http://bugreports.qt-project.org</a>';
            onLinkActivated: Qt.openUrlExternally(link);
        }
    }
    Rectangle{ id: blackout //Maybe use a colorize effect instead?
        z: 8
        anchors.fill: parent
        color: "#000000"
        opacity: 0
    }
    MouseArea{
        z: 8
        enabled: main.show
        hoverEnabled: main.show //To steal focus from the buttons
        acceptedButtons: Qt.LeftButton | Qt.RightButton | Qt.MiddleButton
        anchors.fill: parent
    }

    states: [
        State {
            name: "show"
            when: show == true
            PropertyChanges {
                target: embeddedViewer
                opacity: 1
            }
            PropertyChanges {
                target: blackout
                opacity: 0.5
            }
        }
```

```
          ]
       transitions: [//Should not be too long, because the component has already started running
          Transition { from: "; to: "show"; reversible: true
             ParallelAnimation{
                NumberAnimation{ properties: "opacity"; easing.type: Easing.InQuad; duration: 500}
                PropertyAction { target: loader; property: "focus"; value: true}//Might be needed to ensure the focus stays
with us
             }
          }
       ]
    }
<RCC>
  <qresource prefix="/">
     <file>xml/examples.xml</file>
     <file>images/qtlogo_small.png</file>
     <file>images/trolltech-logo.png</file>
     <file>images/demobg.png</file>
  </qresource>
  <qresource prefix="/qml" lang="qml">
     <file>qmlShell.qml</file>
  </qresource>
</RCC>
<RCC>
  <qresource>
     <file>No-Ones-Laughing-3.jpg</file>
  </qresource>
</RCC>
<ui version="4.0" >
<class>embeddedDialog</class>
<widget class="QDialog" name="embeddedDialog" >
 <property name="geometry" >
  <rect>
   <x>0</x>
   <y>0</y>
   <width>407</width>
   <height>134</height>
  </rect>
 </property>
 <property name="windowTitle" >
  <string>Embedded Dialog</string>
 </property>
 <layout class="QFormLayout" name="formLayout" >
  <item row="0" column="0" >
   <widget class="QLabel" name="label" >
    <property name="text" >
     <string>Layout Direction:</string>
    </property>
    <property name="buddy" >
```

```
      <cstring>layoutDirection</cstring>
     </property>
    </widget>
   </item>
   <item row="0" column="1" >
    <widget class="QComboBox" name="layoutDirection" >
     <item>
      <property name="text" >
       <string>Left to Right</string>
      </property>
     </item>
     <item>
      <property name="text" >
       <string>Right to Left</string>
      </property>
     </item>
    </widget>
   </item>
   <item row="1" column="0" >
    <widget class="QLabel" name="label_2" >
     <property name="text" >
      <string>Select Font:</string>
     </property>
     <property name="buddy" >
      <cstring>fontComboBox</cstring>
     </property>
    </widget>
   </item>
   <item row="1" column="1" >
    <widget class="QFontComboBox" name="fontComboBox" />
   </item>
   <item row="2" column="0" >
    <widget class="QLabel" name="label_3" >
     <property name="text" >
      <string>Style:</string>
     </property>
     <property name="buddy" >
      <cstring>style</cstring>
     </property>
    </widget>
   </item>
   <item row="2" column="1" >
    <widget class="QComboBox" name="style" />
   </item>
   <item row="3" column="0" >
    <widget class="QLabel" name="label_4" >
     <property name="text" >
      <string>Layout spacing:</string>
```

```
    </property>
    <property name="buddy" >
     <cstring>spacing</cstring>
    </property>
   </widget>
  </item>
  <item row="3" column="1" >
   <widget class="QSlider" name="spacing" >
   <property name="orientation" >
    <enum>Qt::Horizontal</enum>
   </property>
  </widget>
  </item>
 </layout>
</widget>
<resources/>
<connections/>
</ui>
```

Qt

Quarterly

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paper

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exclusively

available

to

Qt

customers

Every

quarter

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insight

and

pleasure

to

your

Qt
programming
with
high
quality
technical
articles
written
by
Qt
experts
Colorless
green
ideas
sleep
furiously
A
colorless
green
idea
is
a
new
untried
idea
that
is
without
vividness
dull
and
unexciting
To
sleep
furiously
may
seem
a
puzzling
turn
of
phrase
but
the
mind
in
sleep
often

indeed

moves

furiously

with

ideas

and

images

flickering

in

and

out

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ui version="4.0">
<class>SchemaMainWindow</class>
<widget class="QMainWindow" name="SchemaMainWindow">
 <property name="geometry">
  <rect>
   <x>0</x>
   <y>0</y>
   <width>417</width>
   <height>594</height>
  </rect>
 </property>
 <property name="windowTitle">
  <string>XML Schema Validation</string>
 </property>
 <widget class="QWidget" name="centralwidget">
  <layout class="QGridLayout" name="gridLayout">
   <item row="0" column="0" colspan="2">
    <widget class="QLabel" name="schemaLabel">
     <property name="text">
      <string>XML Schema Document:</string>
     </property>
    </widget>
   </item>
   <item row="0" column="2" colspan="2">
    <widget class="QComboBox" name="schemaSelection"/>
   </item>
   <item row="1" column="0" colspan="4">
    <widget class="QTextBrowser" name="schemaView"/>
   </item>
   <item row="2" column="0" colspan="2">
    <widget class="QLabel" name="instanceLabel">
     <property name="text">
      <string>XML Instance Document:</string>
     </property>
    </widget>
   </item>
```

```
      <item row="2" column="2" colspan="2">
       <widget class="QComboBox" name="instanceSelection"/>
      </item>
      <item row="3" column="0" colspan="4">
       <widget class="QTextEdit" name="instanceEdit"/>
      </item>
      <item row="4" column="0">
       <widget class="QLabel" name="label">
        <property name="text">
         <string>Status:</string>
        </property>
       </widget>
      </item>
      <item row="4" column="1" colspan="2">
       <widget class="QLabel" name="validationStatus">
        <property name="text">
         <string>not validated</string>
        </property>
       </widget>
      </item>
      <item row="4" column="3">
       <widget class="QPushButton" name="validateButton">
        <property name="text">
         <string>Validate</string>
        </property>
       </widget>
      </item>
     </layout>
    </widget>
    <widget class="QStatusBar" name="statusbar"/>
   </widget>
   <resources/>
   <connections/>
  </ui>
  <ui version="4.0" >
  <class>Form</class>
  <widget class="QWidget" name="Form" >
   <property name="geometry" >
    <rect>
     <x>0</x>
     <y>0</y>
     <width>911</width>
     <height>688</height>
    </rect>
   </property>
   <property name="windowTitle" >
    <string>Form</string>
   </property>
```

```xml
<layout class="QHBoxLayout" name="horizontalLayout_4" >
 <item>
  <widget class="QSplitter" name="splitter" >
   <property name="orientation" >
    <enum>Qt::Horizontal</enum>
   </property>
   <widget class="QGroupBox" name="editorBox" >
    <property name="title" >
     <string>HTML Editor</string>
    </property>
    <layout class="QHBoxLayout" name="horizontalLayout_2" >
     <item>
      <layout class="QVBoxLayout" name="verticalLayout_2" >
       <item>
        <widget class="QPlainTextEdit" name="plainTextEdit" />
       </item>
       <item>
        <layout class="QHBoxLayout" name="horizontalLayout" >
         <item>
          <widget class="QPushButton" name="clearButton" >
           <property name="text" >
            <string>Clear</string>
           </property>
          </widget>
         </item>
         <item>
          <widget class="QPushButton" name="previewButton" >
           <property name="text" >
            <string>Preview</string>
           </property>
          </widget>
         </item>
        </layout>
       </item>
      </layout>
     </item>
    </layout>
   </widget>
   <widget class="QGroupBox" name="previewerBox" >
    <property name="title" >
     <string>HTML Preview</string>
    </property>
    <layout class="QHBoxLayout" name="horizontalLayout_3" >
     <item>
      <widget class="QWebView" name="webView" >
       <property name="url" >
        <url>
         <string>about:blank</string>
```

```
        </url>
      </property>
    </widget>
    </item>
   </layout>
  </widget>
 </widget>
 </item>
</layout>
</widget>
<customwidgets>
 <customwidget>
  <class>QWebView</class>
  <extends>QWidget</extends>
  <header>QtWebKit/QWebView</header>
 </customwidget>
</customwidgets>
<resources/>
<connections>
 <connection>
  <sender>clearButton</sender>
  <signal>clicked()</signal>
  <receiver>plainTextEdit</receiver>
  <slot>clear()</slot>
  <hints>
   <hint type="sourcelabel" >
    <x>56</x>
    <y>653</y>
   </hint>
   <hint type="destinationlabel" >
    <x>98</x>
    <y>551</y>
   </hint>
  </hints>
 </connection>
</connections>
</ui>
```

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```
<ui version="4.0" >
<class>Form</class>
<widget class="QWidget" name="Form" >
 <property name="geometry" >
  <rect>
   <x>0</x>
   <y>0</y>
   <width>680</width>
   <height>218</height>
  </rect>
 </property>
 <property name="windowTitle" >
  <string>Form</string>
```

```
      </property>
      <layout class="QHBoxLayout" name="horizontalLayout" >
       <item>
        <widget class="QGroupBox" name="webFormGroupBox" >
         <property name="title" >
          <string>Web Form</string>
         </property>
         <layout class="QVBoxLayout" name="verticalLayout_2" >
          <item>
           <layout class="QVBoxLayout" name="verticalLayout" >
            <item>
             <widget class="QWebView" name="webView" >
              <property name="minimumSize" >
               <size>
                <width>200</width>
                <height>150</height>
               </size>
              </property>
              <property name="maximumSize" >
               <size>
                <width>400</width>
                <height>16777215</height>
               </size>
              </property>
              <property name="url" >
               <url>
                <string>about:blank</string>
               </url>
              </property>
             </widget>
            </item>
           </layout>
          </item>
         </layout>
        </widget>
       </item>
       <item>
        <spacer name="horizontalSpacer" >
         <property name="orientation" >
          <enum>Qt::Horizontal</enum>
         </property>
         <property name="sizeHint" stdset="0" >
          <size>
           <width>28</width>
           <height>20</height>
          </size>
         </property>
        </spacer>
```

```xml
    </item>
    <item>
     <widget class="QGroupBox" name="dataGroupBox" >
      <property name="title" >
       <string>Extracted Data</string>
      </property>
      <layout class="QVBoxLayout" name="verticalLayout_3" >
       <item>
        <layout class="QFormLayout" name="formLayout" >
         <property name="fieldGrowthPolicy" >
          <enum>QFormLayout::FieldsStayAtSizeHint</enum>
         </property>
         <item row="0" column="0" >
          <widget class="QLabel" name="firstNameLabel" >
           <property name="text" >
            <string>First Name</string>
           </property>
          </widget>
         </item>
         <item row="0" column="1" >
          <widget class="QLineEdit" name="firstNameEdit" >
           <property name="readOnly" >
            <bool>true</bool>
           </property>
          </widget>
         </item>
         <item row="1" column="0" >
          <widget class="QLabel" name="lastNameLabel" >
           <property name="text" >
            <string>Last Name</string>
           </property>
          </widget>
         </item>
         <item row="1" column="1" >
          <widget class="QLineEdit" name="lastNameEdit" >
           <property name="readOnly" >
            <bool>true</bool>
           </property>
          </widget>
         </item>
         <item row="2" column="0" >
          <widget class="QLabel" name="genderLabel" >
           <property name="text" >
            <string>Gender</string>
           </property>
          </widget>
         </item>
         <item row="2" column="1" >
```

```xml
        <widget class="QLineEdit" name="genderEdit" >
         <property name="readOnly" >
          <bool>true</bool>
         </property>
        </widget>
       </item>
       <item row="3" column="0" >
        <widget class="QLabel" name="updatesLabel" >
         <property name="text" >
          <string>Receive Updates</string>
         </property>
        </widget>
       </item>
       <item row="3" column="1" >
        <widget class="QLineEdit" name="updatesEdit" >
         <property name="readOnly" >
          <bool>true</bool>
         </property>
        </widget>
       </item>
      </layout>
     </item>
     <item>
      <spacer name="verticalSpacer" >
       <property name="orientation" >
        <enum>Qt::Vertical</enum>
       </property>
       <property name="sizeHint" stdset="0" >
        <size>
         <width>20</width>
         <height>24</height>
        </size>
       </property>
      </spacer>
     </item>
    </layout>
   </widget>
  </item>
 </layout>
</widget>
<customwidgets>
 <customwidget>
  <class>QWebView</class>
  <extends>QWidget</extends>
  <header>QtWebKit/QWebView</header>
 </customwidget>
</customwidgets>
<resources/>
```

```xml
<connections/>
</ui>
<?xml version="1.0" encoding="UTF-8"?>
<ui version="4.0">
<class>Window</class>
<widget class="QMainWindow" name="Window">
 <property name="geometry">
  <rect>
   <x>0</x>
   <y>0</y>
   <width>800</width>
   <height>600</height>
  </rect>
 </property>
 <property name="windowTitle">
  <string>Web Element DOM Traversal</string>
 </property>
 <widget class="QWidget" name="centralwidget">
  <layout class="QVBoxLayout" name="verticalLayout_2">
   <property name="topMargin">
    <number>4</number>
   </property>
   <property name="bottomMargin">
    <number>4</number>
   </property>
   <item>
    <widget class="QWebView" name="webView">
     <property name="url">
      <url>
       <string>http://qt.nokia.com/</string>
      </url>
     </property>
    </widget>
   </item>
  </layout>
 </widget>
 <widget class="QMenuBar" name="menubar">
  <property name="geometry">
   <rect>
    <x>0</x>
    <y>0</y>
    <width>800</width>
    <height>27</height>
   </rect>
  </property>
 </widget>
 <widget class="QStatusBar" name="statusbar"/>
 <widget class="QDockWidget" name="dockWidget">
```

```xml
<property name="allowedAreas">
 <set>Qt::LeftDockWidgetArea|Qt::RightDockWidgetArea</set>
</property>
<property name="windowTitle">
 <string>Document Structure</string>
</property>
<attribute name="dockWidgetArea">
 <number>1</number>
</attribute>
<widget class="QWidget" name="dockWidgetContents">
 <layout class="QVBoxLayout" name="verticalLayout">
  <property name="margin">
   <number>4</number>
  </property>
  <item>
   <widget class="QTreeWidget" name="treeWidget">
    <attribute name="headerVisible">
     <bool>false</bool>
    </attribute>
    <attribute name="headerVisible">
     <bool>false</bool>
    </attribute>
    <column>
     <property name="text">
      <string notr="true">1</string>
     </property>
    </column>
   </widget>
  </item>
 </layout>
</widget>
</widget>
</widget>
<customwidgets>
 <customwidget>
  <class>QWebView</class>
  <extends>QWidget</extends>
  <header>QtWebKit/QWebView</header>
 </customwidget>
</customwidgets>
<resources/>
<connections/>
</ui>
<?xml version="1.0" encoding="UTF-8"?>
<ui version="4.0">
<class>Form</class>
<widget class="QWidget" name="Form">
 <property name="geometry">
```

```xml
<rect>
 <x>0</x>
 <y>0</y>
 <width>286</width>
 <height>413</height>
</rect>
</property>
<property name="windowTitle">
 <string>Google Talk Client</string>
</property>
<layout class="QVBoxLayout" name="verticalLayout">
 <property name="spacing">
 <number>0</number>
 </property>
 <property name="margin">
 <number>0</number>
 </property>
 <item>
 <widget class="QStackedWidget" name="stackedWidget">
  <property name="currentIndex">
  <number>1</number>
  </property>
 <widget class="QWidget" name="page_3">
 <layout class="QVBoxLayout" name="verticalLayout_4">
  <item>
   <spacer name="verticalSpacer_4">
   <property name="orientation">
    <enum>Qt::Vertical</enum>
   </property>
   <property name="sizeHint" stdset="0">
    <size>
     <width>20</width>
     <height>170</height>
    </size>
   </property>
   </spacer>
  </item>
  <item>
   <widget class="QLabel" name="statusLabel">
   <property name="text">
    <string>TextLabel</string>
   </property>
   <property name="alignment">
    <set>Qt::AlignCenter</set>
   </property>
   <property name="wordWrap">
    <bool>true</bool>
   </property>
```

```
     </widget>
    </item>
    <item>
     <widget class="QProgressBar" name="progressBar">
      <property name="value">
       <number>24</number>
      </property>
     </widget>
    </item>
    <item>
     <spacer name="verticalSpacer_5">
      <property name="orientation">
       <enum>Qt::Vertical</enum>
      </property>
      <property name="sizeHint" stdset="0">
       <size>
        <width>20</width>
        <height>169</height>
       </size>
      </property>
     </spacer>
    </item>
   </layout>
  </widget>
  <widget class="QWidget" name="page">
   <layout class="QVBoxLayout" name="verticalLayout_2">
    <item>
     <spacer name="verticalSpacer_3">
      <property name="orientation">
       <enum>Qt::Vertical</enum>
      </property>
      <property name="sizeHint" stdset="0">
       <size>
        <width>20</width>
        <height>119</height>
       </size>
      </property>
     </spacer>
    </item>
    <item>
     <widget class="QLabel" name="userNameLabel">
      <property name="text">
       <string>Google username:</string>
      </property>
     </widget>
    </item>
    <item>
     <widget class="QLineEdit" name="userNameEdit"/>
```

```xml
    </item>
    <item>
     <spacer name="verticalSpacer_2">
      <property name="orientation">
       <enum>Qt::Vertical</enum>
      </property>
      <property name="sizeType">
       <enum>QSizePolicy::Fixed</enum>
      </property>
      <property name="sizeHint" stdset="0">
       <size>
        <width>20</width>
        <height>17</height>
       </size>
      </property>
     </spacer>
    </item>
    <item>
     <widget class="QLabel" name="passwordLabel">
      <property name="text">
       <string>Password:</string>
      </property>
     </widget>
    </item>
    <item>
     <widget class="QLineEdit" name="passwordEdit">
      <property name="echoMode">
       <enum>QLineEdit::Password</enum>
      </property>
     </widget>
    </item>
    <item>
     <spacer name="verticalSpacer">
      <property name="orientation">
       <enum>Qt::Vertical</enum>
      </property>
      <property name="sizeHint" stdset="0">
       <size>
        <width>20</width>
        <height>118</height>
       </size>
      </property>
     </spacer>
    </item>
    <item>
     <layout class="QHBoxLayout" name="horizontalLayout">
      <item>
       <spacer name="horizontalSpacer">
```

```
        <property name="orientation">
         <enum>Qt::Horizontal</enum>
        </property>
        <property name="sizeHint" stdset="0">
         <size>
          <width>40</width>
          <height>20</height>
         </size>
        </property>
       </spacer>
      </item>
      <item>
       <widget class="QPushButton" name="loginButton">
        <property name="text">
         <string>Login</string>
        </property>
        <property name="default">
         <bool>true</bool>
        </property>
       </widget>
      </item>
      <item>
       <spacer name="horizontalSpacer_2">
        <property name="orientation">
         <enum>Qt::Horizontal</enum>
        </property>
        <property name="sizeHint" stdset="0">
         <size>
          <width>40</width>
          <height>20</height>
         </size>
        </property>
       </spacer>
      </item>
     </layout>
    </item>
   </layout>
  </widget>
  <widget class="QWidget" name="page_2">
   <layout class="QVBoxLayout" name="verticalLayout_3">
    <property name="spacing">
     <number>0</number>
    </property>
    <property name="margin">
     <number>0</number>
    </property>
    <item>
     <widget class="QWebView" name="webView">
```

```
          <property name="url">
           <url>
            <string>about:blank</string>
           </url>
          </property>
         </widget>
        </item>
       </layout>
      </widget>
     </widget>
    </item>
   </layout>
  </widget>
  <customwidgets>
   <customwidget>
    <class>QWebView</class>
    <extends>QWidget</extends>
    <header>QtWebKit/QWebView</header>
   </customwidget>
  </customwidgets>
  <resources/>
  <connections/>
 </ui>
 <RCC>
    <qresource prefix="/" >
       <file>jquery.min.js</file>
    </qresource>
 </RCC>
 <?xml version="1.0" encoding="UTF-8"?>
 <ui version="4.0">
 <class>Window</class>
 <widget class="QWidget" name="Window">
  <property name="geometry">
   <rect>
    <x>0</x>
    <y>0</y>
    <width>640</width>
    <height>480</height>
   </rect>
  </property>
  <property name="windowTitle">
   <string>Web Element Selector</string>
  </property>
  <layout class="QVBoxLayout" name="verticalLayout">
   <item>
    <widget class="QWebView" name="webView">
     <property name="url">
      <url>
```

```xml
      <string>http://webkit.org/</string>
     </url>
    </property>
   </widget>
  </item>
  <item>
   <layout class="QHBoxLayout" name="horizontalLayout">
    <item>
     <layout class="QFormLayout" name="formLayout">
      <property name="fieldGrowthPolicy">
       <enum>QFormLayout::ExpandingFieldsGrow</enum>
      </property>
      <item row="0" column="0">
       <widget class="QLabel" name="elementLabel">
        <property name="text">
         <string>&Element:</string>
        </property>
        <property name="buddy">
         <cstring>elementLineEdit</cstring>
        </property>
       </widget>
      </item>
      <item row="0" column="1">
       <widget class="QLineEdit" name="elementLineEdit">
        <property name="text">
         <string>li a</string>
        </property>
       </widget>
      </item>
     </layout>
    </item>
    <item>
     <widget class="QPushButton" name="highlightButton">
      <property name="text">
       <string>&Highlight</string>
      </property>
     </widget>
    </item>
   </layout>
  </item>
 </layout>
</widget>
<customwidgets>
 <customwidget>
  <class>QWebView</class>
  <extends>QWidget</extends>
  <header>QtWebKit/QWebView</header>
 </customwidget>
```

```
</customwidgets>
<resources/>
<connections/>
</ui>
```

Getting Started   How to familiarize yourself with Qt Designer
   Launching Designer   Running the Qt Designer application
   The User Interface   How to interact with Qt Designer

Designing a Component   Creating a GUI for your application
   Creating a Dialog   How to create a dialog
   Composing the Dialog   Putting widgets into the dialog example
   Creating a Layout   Arranging widgets on a form
   Signal and Slot Connections   Making widget communicate with each other

Using a Component in Your Application Generating code from forms
   The Direct Approach   Using a form without any adjustments
   The Single Inheritance Approach Subclassing a form's base class
   The Multiple Inheritance Approach Subclassing the form itself
   Automatic Connections   Connecting widgets using a naming scheme
     A Dialog Without Auto-Connect How to connect widgets without a naming scheme
     A Dialog With Auto-Connect Using automatic connections

Form Editing Mode   How to edit a form in Qt Designer
   Managing Forms   Loading and saving forms
   Editing a Form   Basic editing techniques
   The Property Editor   Changing widget properties
   The Object Inspector   Examining the hierarchy of objects on a form
   Layouts   Objects that arrange widgets on a form
     Applying and Breaking Layouts Managing widgets in layouts
     Horizontal and Vertical Layouts Standard row and column layouts
     The Grid Layout   Arranging widgets in a matrix
   Previewing Forms   Checking that the design works

Using Containers   How to group widgets together
   General Features   Common container features
   Frames   QFrame
   Group Boxes   QGroupBox
   Stacked Widgets   QStackedWidget
   Tab Widgets   QTabWidget
   Toolbox Widgets   QToolBox

Connection Editing Mode   Connecting widgets together with signals and slots
   Connecting Objects   Making connections in Qt Designer
   Editing Connections   Changing existing connections
London,4,red
Stockholm,5,pink
Paris,2,lightgreen
Rome,11,green

Lisbon,9,blue
Madrid,8,lightblue
Berlin,6,magenta
Vienna,7,purple
Scientific Research,21,#99e600
Engineering & Design,18,#99cc00
Automotive,14,#99b300
Aerospace,13,#9f991a
Automation & Machine Tools,13,#a48033
Medical & Bioinformatics,13,#a9664d
Imaging & Special Effects,12,#ae4d66
Defense,11,#b33380
Test & Measurement Systems,9,#a64086
Oil & Gas,9,#994d8d
Entertainment & Broadcasting,7,#8d5a93
Financial,6,#806699
Consumer Electronics,4,#8073a6
Other,38,#8080b3

```
<ui version="4.0" >
<class>MainWindow</class>
<widget class="QMainWindow" name="MainWindow" >
 <property name="geometry" >
  <rect>
   <x>0</x>
   <y>0</y>
   <width>573</width>
   <height>468</height>
  </rect>
 </property>
 <property name="windowTitle" >
  <string>Editable Tree Model</string>
 </property>
 <widget class="QWidget" name="centralwidget" >
  <layout class="QVBoxLayout" >
   <property name="margin" >
    <number>0</number>
   </property>
   <property name="spacing" >
    <number>0</number>
   </property>
   <item>
    <widget class="QTreeView" name="view" >
     <property name="alternatingRowColors" >
      <bool>true</bool>
     </property>
     <property name="selectionBehavior" >
      <enum>QAbstractItemView::SelectItems</enum>
     </property>
```

```xml
        <property name="horizontalScrollMode" >
         <enum>QAbstractItemView::ScrollPerPixel</enum>
        </property>
        <property name="animated" >
         <bool>false</bool>
        </property>
        <property name="allColumnsShowFocus" >
         <bool>true</bool>
        </property>
       </widget>
      </item>
     </layout>
    </widget>
    <widget class="QMenuBar" name="menubar" >
     <property name="geometry" >
      <rect>
       <x>0</x>
       <y>0</y>
       <width>573</width>
       <height>31</height>
      </rect>
     </property>
     <widget class="QMenu" name="fileMenu" >
      <property name="title" >
       <string>&File</string>
      </property>
      <addaction name="exitAction" />
     </widget>
     <widget class="QMenu" name="actionsMenu" >
      <property name="title" >
       <string>&Actions</string>
      </property>
      <addaction name="insertRowAction" />
      <addaction name="insertColumnAction" />
      <addaction name="separator" />
      <addaction name="removeRowAction" />
      <addaction name="removeColumnAction" />
      <addaction name="separator" />
      <addaction name="insertChildAction" />
     </widget>
     <addaction name="fileMenu" />
     <addaction name="actionsMenu" />
    </widget>
    <widget class="QStatusBar" name="statusbar" />
    <action name="exitAction" >
     <property name="text" >
      <string>E&xit</string>
     </property>
```

```xml
        <property name="shortcut" >
         <string>Ctrl+Q</string>
        </property>
       </action>
       <action name="insertRowAction" >
        <property name="text" >
         <string>Insert Row</string>
        </property>
        <property name="shortcut" >
         <string>Ctrl+I, R</string>
        </property>
       </action>
       <action name="removeRowAction" >
        <property name="text" >
         <string>Remove Row</string>
        </property>
        <property name="shortcut" >
         <string>Ctrl+R, R</string>
        </property>
       </action>
       <action name="insertColumnAction" >
        <property name="text" >
         <string>Insert Column</string>
        </property>
        <property name="shortcut" >
         <string>Ctrl+I, C</string>
        </property>
       </action>
       <action name="removeColumnAction" >
        <property name="text" >
         <string>Remove Column</string>
        </property>
        <property name="shortcut" >
         <string>Ctrl+R, C</string>
        </property>
       </action>
       <action name="insertChildAction" >
        <property name="text" >
         <string>Insert Child</string>
        </property>
        <property name="shortcut" >
         <string>Ctrl+N</string>
        </property>
       </action>
      </widget>
      <connections/>
      </ui>
```

```
<RCC>
  <qresource prefix="/" >
    <file>default.txt</file>
  </qresource>
</RCC>
%License /Type="gpl"/
```

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The "source code" for a work means the preferred form of the work
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  (including a physical distribution medium), accompanied by a
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the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to

produce the work, or an object code interpreter used to run it.

 The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work. For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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subprograms and other parts of the work.

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long as you offer spare parts or customer support for that product
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medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

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written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

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Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
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copy the object code is a network server, the Corresponding Source
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1.40 tar 1.26

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"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
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The "Corresponding Source" for a work in object code form means all
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1.43 Tcl 8.6.6

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Received: (from gsf@localhost)

 by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112

 for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)

Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)

From: Glenn Fowler <gsf@research.att.com>

Message-Id: <200603011923.OAA86112@raptor.research.att.com>

Organization: AT&T Research

X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

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References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>

To: mps@bridge.intra

Subject: Re: testregex licensing question

X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)

X-GMX-Antispam: 0 (Mail was not recognized as spam)

X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca

X-Virus-Scanned: by amavisd-new at localhost

Status: RO

X-Status:

X-Keywords:

X-UID: 44736

you may include it directly

retain the testregex.c header comment

it uses a very free license to maximize distribution

you can copy that .c comment to any test data files you use

using # comment style to be complete

let me know how it works with your libc

also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:

> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc

> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any

> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite

> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --

> Peter S. Mazinger <ps dot m at gmx dot net>   ID: 0xA5F059F2

> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2

/*

* regex(3) test harness

*

* build: cc -o testregex testregex.c

* help: testregex --man

* note: REG_* features are detected by #ifdef; if REG_* are enums

* then supply #define REG_foo REG_foo for each enum REG_foo

*

* Glenn Fowler <gsf@research.att.com>

* AT&T Labs Research

*

* PLEASE: publish your tests so everyone can benefit

*

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 */
```

1.47 uClibc-ng 1.0.26

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```
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 * Hongjiu Lu and Mitch D'Souza
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contains portions of the Library), rather than a "work that uses the
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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

 If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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 Otherwise, if the work is a derivative of the Library, you may
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  with the Library, with the complete machine-readable "work that
  uses the Library", as object code and/or source code, so that the
  user can modify the Library and then relink to produce a modified
  executable containing the modified Library. (It is understood
  that the user who changes the contents of definitions files in the
  Library will not necessarily be able to recompile the application
  to use the modified definitions.)

  b) Use a suitable shared library mechanism for linking with the
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  copy of the library already present on the user's computer system,
  rather than copying library functions into the executable, and (2)
  will operate properly with a modified version of the library, if
  the user installs one, as long as the modified version is
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  c) Accompany the work with a written offer, valid for at least
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  e) Verify that the user has already received a copy of these
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
 xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
 xmlns:xi="http://www.w3.org/2001/XInclude"
 xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
   <xsl:call-template name="isc.copyright.format">
     <xsl:with-param name="text" select="$rest"/>
   </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
   <xsl:with-param name="text">
     <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
  <xsl:text>Copyright (C) </xsl:text>
  <xsl:call-template name="copyright.years">
    <xsl:with-param name="years" select="year"/>
```

```
    </xsl:call-template>
    <xsl:text> </xsl:text>
    <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
    <xsl:text>&#10;</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
   </xsl:call-template>
 </xsl:variable>
</xsl:stylesheet>


<!--
 - Local variables:
 - mode: sgml
 - End:
-->
```

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3.7 curl 7.56.1

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3.8 dkjson 2.5 :2.5

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3.11 fcgi 2.4.1

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3.12 fuse 2.9.0

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3.14 GCC Compiler ,GCC C++ run-time library and GCC STL - libs 3.2.1

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3.15 glibc 2.23

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3.24 httpfs2 0.1.4

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* But how can you access the original folder after the mount?
* Answer comes from FuseCompress:
*   Open the folder before the mount,
*   keep it open all the time,
*   make a chdir to it
*   and always use a relative path.
* It suffices not to chdir in main() and it's unnecessary to
* do it in every function. httpfs_init is the right place.
*
*/
Authors:
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3.26 iptables 1.4.19.1

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3.28 libdaemon 0.13

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single nxt200x frontend driver.

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
```

```
 *     copy small buffer contents to head of large buffer.
 *  Trick is to avoid fragmenting Linux, due to need for a lot of large
 *     buffers. This is done by 2 things:
 *       1) skb->destructor / skb->atm.recycle_buffer
 *           combined, allow nicstar_free_rx_skb to be called to
 *           recycle large data buffers
 *       2) skb_clone of received buffers
 *  See nicstar_free_rx_skb and linearize_buffer for implementation
 *     details.
 *
 *
 *
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 *  along with this program; if not, write to the Free Software
 *  Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
 *
 * M. Welsh, 6 July 1996
 *
 *
 */
```

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  interactive use in the most ordinary way, to print or display an
  announcement including an appropriate copyright notice and a
  notice that there is no warranty (or else, saying that you provide
  a warranty) and that users may redistribute the program under
  these conditions, and telling the user how to view a copy of this
  License. (Exception: if the Program itself is interactive but
  does not normally print such an announcement, your work based on
  the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Program,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Program, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to

exercise the right to control the distribution of derivative or
collective works based on the Program.

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may copy and distribute the Program (or a work based on it,
under Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

  a) Accompany it with the complete corresponding machine-readable
  source code, which must be distributed under the terms of Sections
  1 and 2 above on a medium customarily used for software interchange; or,

  b) Accompany it with a written offer, valid for at least three
  years, to give any third party, for a charge no more than your
  cost of physically performing source distribution, a complete
  machine-readable copy of the corresponding source code, to be
  distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

  c) Accompany it with the information you received as to the offer
  to distribute corresponding source code. (This alternative is
  allowed only for noncommercial distribution and only if you
  received the program in object code or executable form with such
  an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
access to copy from a designated place, then offering equivalent
access to copy the source code from the same place counts as
distribution of the source code, even though third parties are not
compelled to copy the source along with the object code.

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possible use to the public, the best way to achieve this is to make it
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To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively
convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

    <one line to give the program's name and a brief idea of what it does.>
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

     Preamble

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 To protect your rights, we need to make restrictions that forbid
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 For example, if you distribute copies of the library, whether gratis
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code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

 Our method of protecting your rights has two steps: (1) copyright
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that everyone understands that there is no warranty for this free
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want its recipients to know that what they have is not the original
version, so that any problems introduced by others will not reflect on
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 Finally, any free program is threatened constantly by software
patents. We wish to avoid the danger that companies distributing free
software will individually obtain patent licenses, thus in effect
transforming the program into proprietary software. To prevent this,
we have made it clear that any patent must be licensed for everyone's
free use or not licensed at all.

 Most GNU software, including some libraries, is covered by the ordinary
GNU General Public License, which was designed for utility programs. This
license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

 The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in

a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

 Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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you conspicuously and appropriately publish on each copy an
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all the notices that refer to this License and to the absence of any
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 You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
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 2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

  a) The modified work must itself be a software library.

  b) You must cause the files modified to carry prominent notices
  stating that you changed the files and the date of any change.

  c) You must cause the whole of the work to be licensed at no
  charge to all third parties under the terms of this License.

  d) If a facility in the modified Library refers to a function or a
  table of data to be supplied by an application program that uses
  the facility, other than as an argument passed when the facility
  is invoked, then you must make a good faith effort to ensure that,
  in the event an application does not supply such function or
  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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a storage or distribution medium does not bring the other work under
the scope of this License.

 3. You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
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instead of to this License. (If a newer version than version 2 of the
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that version instead if you wish.) Do not make any other change in
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 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

 This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

 4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which

must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the

Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

 For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

 It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

 7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library

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the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

  a) Accompany the combined library with a copy of the same work
  based on the Library, uncombined with any other library
  facilities. This must be distributed under the terms of the
  Sections above.

  b) Give prominent notice with the combined library of the fact
  that part of it is a work based on the Library, and explaining
  where to find the accompanying uncombined form of the same work.

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Appendix: How to Apply These Terms to Your New Libraries

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possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
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ordinary General Public License).

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3.38 luajit 2.0.4 :r0

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3.39 mtd 1.5.2

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This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

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-- vile: txtmode file-encoding=utf-8

3.41 net-snmp 5.7.3

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3.42 net-snmp/snmplib/openssl 5.7.3

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28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig

30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications

31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port

32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver

33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

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45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port

46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo

47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port

50. [54]Michael Shields <shields@tembel.org> USNO clock driver

51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port

54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support

55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver

56. [60]Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues

57. [61]Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support

58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver

59. [63]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any

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3.56 runit 2.1.1

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3.58 Sysstat 8.1.2

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3.60 traceroute6 1.4.2.1

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3.63 Zlib 1.2.3

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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.3 is a general purpose data compression library. All the code is

thread safe. The data format used by the zlib library is described by RFCs

(Request for Comments) 1950 to 1952 in the files

http://www.ietf.org/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format). These documents are also available in other formats from ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html

All functions of the compression library are documented in the file zlib.h (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file example.c which also tests that the library is working correctly. Another example is given in the file minigzip.c. The compression library itself is composed of all source files except example.c and minigzip.c.

To compile all files and run the test program, follow the instructions given at the top of Makefile. In short "make test; make install" should work for most machines. For Unix: "./configure; make test; make install". For MSDOS, use one of the special makefiles such as Makefile.msc. For VMS, use make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version. The zlib home page is http://www.zlib.org or http://www.gzip.org/zlib/ Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://www.gzip.org/zlib/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available in http://dogma.net/markn/articles/zlibtool/zlibtool.htm

The changes made in version 1.2.3 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory "contrib".

A Java implementation of zlib is available in the Java Development Kit http://java.sun.com/j2se/1.4.2/docs/api/java/util/zip/package-summary.html See the zlib home page http://www.zlib.org for details.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is in the CPAN (Comprehensive Perl Archive Network) sites http://www.cpan.org/modules/by-module/Compress/

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see http://www.python.org/doc/lib/module-zlib.html

A zlib binding for TCL written by Andreas Kupries <a.kupries@westend.com> is availlable at http://www.oche.de/~akupries/soft/trf/trf_zip.html

An experimental package to read and write files in .zip format, written on top
of zlib by Gilles Vollant <info@winimage.com>, is available in the
contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With
  -O, one libpng test fails. The test works in 32 bit mode (with the -n32
  compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works
  when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is
  necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with
  other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS, BEOS and by some Mac compilers.

- For PalmOs, see http://palmzlib.sourceforge.net/

- When building a shared, i.e. dynamic library on Mac OS X, the library must be
  installed before testing (do "make install" before "make test"), since the
  library location is specified in the library.

Acknowledgments:

  The deflate format used by zlib was defined by Phil Katz. The deflate
  and zlib specifications were written by L. Peter Deutsch. Thanks to all the
  people who reported problems and suggested various improvements in zlib;
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Jean-loup Gailly   Mark Adler
jloup@gzip.org   madler@alumni.caltech.edu

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