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```

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* httpd@ncsa.uiuc.edu
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Written by: Philip Hazel <ph10@cam.ac.uk>

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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

For the expat xml parser component:

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1.15 bcprov-jdk16 1.36

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1.17 cglib-nodep 2.1_3

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Version 2.8, 17 August 2003

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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
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1.35 cos 05Nov2002

1.36 Crazybob -

DebuggingObjectOutputStream 1.0

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1.38 derbyclient_jakarta-oro_jar 10.10.1.1

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For the geronimo-util jar in org.apache.geronimo.runtime.v20,
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1.56 jaxb-api 2.1

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1.58 jaxb-verification 1.0

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1.60 jaxb1-impl 2.1.13

1.61 jaxrpc 1.1

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1.62 JDOM 1.0

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/*--

\$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp \$

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*/

```
package org.jdom;
```

```
/**
```

```
* An XML comment. Methods allow the user to get and set the text of the  
* comment.
```

```
*
```

```
* @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
```

```
* @author Brett McLaughlin
```

```
* @author Jason Hunter
```

```
*/
```

```
public class Comment extends Content {
```

```
    private static final String CVS_ID =
```

```
        "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";
```

```
    /** Text of the <code>Comment</code> */
```

```
    protected String text;
```

```
    /**
```

```
     * Default, no-args constructor for implementations to use if needed.
```

```
     */
```

```
    protected Comment() {}
```

```
    /**
```

```
     * This creates the comment with the supplied text.
```

```
     *
```

```
     * @param text <code>String</code> content of comment.
```

```
     */
```

```
    public Comment(String text) {
```

```

    setText(text);
}

/**
 * Returns the XPath 1.0 string value of this element, which is the
 * text of this comment.
 *
 * @return the text of this comment
 */
public String getValue() {
    return text;
}

/**
 * This returns the textual data within the Comment.
 *
 * @return String - text of comment.
 */
public String getText() {
    return text;
}

/**
 * This will set the value of the Comment.
 *
 * @param text String text for comment.
 * @return Comment - this Comment modified.
 * @throws IllegalDataException if the given text is illegal for a
 *         Comment.
 */
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalDataException(text, "comment", reason);
    }

    this.text = text;
    return this;
}

/**
 * This returns a String representation of the
 * Comment, suitable for debugging. If the XML
 * representation of the Comment is desired,
 * { @link org.jdom.output.XMLOutputter#outputString(Comment) }
 * should be used.
 *

```

```

* @return <code>String</code> - information about the
*   <code>Attribute</code>
*/
public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}
}
}

```

1.63 jdom 2.0.2

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```
/*--
```

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*/

1.64 jetty-annotations 8.1.7 :v20120910

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```

```
package org.eclipse.jetty.continuation;
```

```
import javax.servlet.Filter;  
import javax.servlet.FilterChain;  
import javax.servlet.Servlet;  
import javax.servlet.ServletRequest;  
import javax.servlet.ServletResponse;
```



```

import javax.servlet.ServletResponseWrapper;

/* ----- */
/**
 * Continuation.
 *
 * A continuation is a mechanism by which a HTTP Request can be suspended and
 * restarted after a timeout or an asynchronous event has occurred.
 *
 * <p>
 * The continuation mechanism is a portable mechanism that will work
 * asynchronously without additional configuration of all jetty-7,
 * jetty-8 and Servlet 3.0 containers. With the addition of
 * the { @link ContinuationFilter}, the mechanism will also work
 * asynchronously on jetty-6 and non-asynchronously on any
 * servlet 2.5 container.
 *
 * <p>
 * The Continuation API is a simplification of the richer async API
 * provided by the servlet-3.0 and an enhancement of the continuation
 * API that was introduced with jetty-6.
 *
 * </p>
 * <h1>Continuation Usage</h1>
 *
 * <p>
 * A continuation object is obtained for a request by calling the
 * factory method { @link ContinuationSupport#getContinuation(ServletRequest)}.
 * The continuation type returned will depend on the servlet container
 * being used.
 *
 * </p>
 *
 * <p>
 * There are two distinct style of operation of the continuation API.
 *
 * </p>
 * <h3>Suspend/Resume Usage</h3>
 *
 * <p>The suspend/resume style is used when a servlet and/or
 * filter is used to generate the response after a asynchronous wait that is
 * terminated by an asynchronous handler.
 *
 * </p>
 *
 * <pre>
 * <b>Filter/Servlet:</b>
 * // if we need to get asynchronous results
 * Object results = request.getAttribute("results");
 * if (results==null)
 * {
 *     Continuation continuation = ContinuationSupport.getContinuation(request);
 *     continuation.suspend();
 *     myAsyncHandler.register(continuation);
 *     return; // or continuation undispatch();
 * }
 *
 *
 * async wait ...

```

```

*
* <b>Async Handler:</b>
* // when the waited for event happens
* continuation.setAttribute("results",event);
* continuation.resume();
*
* <b>Filter/Servlet:</b>
* // when the request is redispached
* if (results==null)
* {
*   ... // see above
* }
* else
* {
*   response.getOutputStream().write(process(results));
* }
* </pre>
* <h3>Suspend/Complete Usage</h3>
* <p>
* The suspend/complete style is used when an asynchronous handler is used to
* generate the response:
* </p>
* <pre>
* <b>Filter/Servlet:</b>
* // when we want to enter asynchronous mode
* Continuation continuation = ContinuationSupport.getContinuation(request);
* continuation.suspend(response); // response may be wrapped
* myAsyncHandler.register(continuation);
* return; // or continuation.undispatch();
*
* <b>Wrapping Filter:</b>
* // any filter that had wrapped the response should be implemented like:
* try
* {
*   chain.doFilter(request,wrappedResponse);
* }
* finally
* {
*   if (!continuation.isResponseWrapped())
*     wrappedResponse.finish()
*   else
*     continuation.addContinuationListener(myCompleteListener)
* }
*
* async wait ...
*
* <b>Async Handler:</b>
* // when the async event happens

```

```

* continuation.getServletResponse().getOutputStream().write(process(event));
* continuation.complete()
* </pre>
*
* <h1>Continuation Timeout</h1>
* <p>
* If a continuation is suspended, but neither { @link #complete()} or { @link #resume()} is
* called during the period set by { @link #setTimeout(long)}, then the continuation will
* expire and { @link #isExpired()} will return true.
* </p>
* <p>
* When a continuation expires, the { @link ContinuationListener#onTimeout(Continuation)}
* method is called on any { @link ContinuationListener} that has been registered via the
* { @link #addContinuationListener(ContinuationListener)} method. The onTimeout handlers
* may write a response and call { @link #complete()}. If { @link #complete()} is not called,
* then the container will redispach the request as if { @link #resume()} had been called,
* except that { @link #isExpired()} will be true and { @link #isResumed()} will be false.
* </p>
*
* @see ContinuationSupport
* @see ContinuationListener
*
*/
public interface Continuation
{
    public final static String ATTRIBUTE = "org.eclipse.jetty.continuation";

    /* ----- */
    /**
     * Set the continuation timeout.
     *
     * @param timeoutMs
     *     The time in milliseconds to wait before expiring this
     *     continuation after a call to { @link #suspend()} or { @link #suspend(ServletResponse)}.
     *     A timeout of <=0 means the continuation will never expire.
     */
    void setTimeout(long timeoutMs);

    /* ----- */
    /**
     * Suspend the processing of the request and associated
     * { @link ServletResponse}.
     *
     * <p>
     * After this method has been called, the lifecycle of the request will be
     * extended beyond the return to the container from the
     * { @link Servlet#service(ServletRequest, ServletResponse)} method and
     * { @link Filter#doFilter(ServletRequest, ServletResponse, FilterChain)}

```

```

* calls. When a suspended request is returned to the container after
* a dispatch, then the container will not commit the associated response
* (unless an exception other than { @link ContinuationThrowable } is thrown).
* </p>
*
* <p>
* When the thread calling the filter chain and/or servlet has returned to
* the container with a suspended request, the thread is freed for other
* tasks and the request is held until either:
* <ul>
* <li>a call to { @link #resume()}.</li>
* <li>a call to { @link #complete()}.</li>
* <li>the timeout expires.</li>
* </ul>
* <p>
* Typically suspend with no arguments is uses when a call to { @link #resume() }
* is expected. If a call to { @link #complete() } is expected, then the
* { @link #suspend(ServletResponse) } method should be used instead of this method.
* </p>
*
* @exception IllegalStateException
*         If the request cannot be suspended
*/
void suspend();

/* ----- */
/**
* Suspend the processing of the request and associated
* { @link ServletResponse }.
*
* <p>
* After this method has been called, the lifecycle of the request will be
* extended beyond the return to the container from the
* { @link Servlet#service(ServletRequest, ServletResponse) } method and
* { @link Filter#doFilter(ServletRequest, ServletResponse, FilterChain) }
* calls. When a suspended request is returned to the container after
* a dispatch, then the container will not commit the associated response
* (unless an exception other than { @link ContinuationThrowable } is thrown).
* </p>
* <p>
* When the thread calling the filter chain and/or servlet has returned to
* the container with a suspended request, the thread is freed for other
* tasks and the request is held until either:
* <ul>
* <li>a call to { @link #resume()}.</li>
* <li>a call to { @link #complete()}.</li>
* <li>the timeout expires.</li>

```

```

* </ul>
* <p>
* Typically suspend with a response argument is uses when a call to { @link #complete()}
* is expected. If a call to { @link #resume()} is expected, then the
* { @link #suspend()} method should be used instead of this method.
* </p>
* <p>
* Filters that may wrap the response object should check { @link #isResponseWrapped()}
* to decide if they should destroy/finish the wrapper. If { @link #isResponseWrapped()}
* returns true, then the wrapped request has been passed to the asynchronous
* handler and the wrapper should not be destroyed/finished until after a call to
* { @link #complete()} (potentially using a { @link ContinuationListener#onComplete(Continuation)}
* listener).
*
* @param response The response to return via a call to { @link #getServletResponse()}
* @exception IllegalStateException
*         If the request cannot be suspended
*/
void suspend(ServletResponse response);

/* ----- */
/**
* Resume a suspended request.
*
* <p>
* This method can be called by any thread that has been passed a reference
* to a continuation. When called the request is redispached to the
* normal filter chain and servlet processing with { @link #isInitial()} false.
* </p>
* <p>
* If resume is called before a suspended request is returned to the
* container (ie the thread that called { @link #suspend()} is still
* within the filter chain and/or servlet service method), then the resume
* does not take effect until the call to the filter chain and/or servlet
* returns to the container. In this case both { @link #isSuspended()} and
* { @link #isResumed()} return true. Multiple calls to resume are ignored.
* </p>
* <p>
* Typically resume() is used after a call to { @link #suspend()} with
* no arguments. The dispatch after a resume call will use the original
* request and response objects, even if { @link #suspend(ServletResponse)}
* had been passed a wrapped response.
* </p>
*
* @see #suspend()
* @exception IllegalStateException if the request is not suspended.
*
*/

```

```

void resume();

/* ----- */
/**
 * Complete a suspended request.
 *
 * <p>
 * This method can be called by any thread that has been passed a reference
 * to a suspended request. When a request is completed, the associated
 * response object committed and flushed. The request is not redispached.
 * </p>
 *
 * <p>
 * If complete is called before a suspended request is returned to the
 * container (ie the thread that called { @link #suspend() } is still
 * within the filter chain and/or servlet service method), then the complete
 * does not take effect until the call to the filter chain and/or servlet
 * returns to the container. In this case both { @link #isSuspended() } and
 * { @link #isResumed() } return true.
 * </p>
 *
 * <p>
 * Typically resume() is used after a call to { @link #suspend(ServletResponse) } with
 * a possibly wrapped response. The async handler should use the response
 * provided by { @link #getServletResponse() } to write the response before
 * calling { @link #complete() }. If the request was suspended with a
 * call to { @link #suspend() } then no response object will be available via
 * { @link #getServletResponse() }.
 * </p>
 *
 * <p>
 * Once complete has been called and any thread calling the filter chain
 * and/or servlet chain has returned to the container, the request lifecycle
 * is complete. The container is able to recycle request objects, so it is
 * not valid hold a request or continuation reference after the end of the
 * life cycle.
 *
 * @see #suspend()
 * @exception IllegalStateException
 *         if the request is not suspended.
 *
 */
void complete();

/* ----- */
/**
 * @return true after { @link #suspend() } has been called and before the
 * request has been redispached due to being resumed, completed or

```

```

*    timed out.
*/
boolean isSuspended();

/* ----- */
/**
 * @return true if the request has been redispached by a call to
 *    {@link #resume()}. Returns false after any subsequent call to
 *    suspend
 */
boolean isResumed();

/* ----- */
/**
 * @return true after a request has been redispached as the result of a
 *    timeout. Returns false after any subsequent call to suspend.
 */
boolean isExpired();

/* ----- */
/**
 * @return true while the request is within the initial dispatch to the
 *    filter chain and/or servlet. Will return false once the calling
 *    thread has returned to the container after suspend has been
 *    called and during any subsequent redispach.
 */
boolean isInitial();

/* ----- */
/**
 * Is the suspended response wrapped.
 * <p>
 * Filters that wrap the response object should check this method to
 * determine if they should destroy/finish the wrapped response. If
 * the request was suspended with a call to {@link #suspend(ServletResponse)}
 * that passed the wrapped response, then the filter should register
 * a {@link ContinuationListener} to destroy/finish the wrapped response
 * during a call to {@link ContinuationListener#onComplete(Continuation)}.
 * @return True if {@link #suspend(ServletResponse)} has been passed a
 * {@link ServletResponseWrapper} instance.
 */
boolean isResponseWrapped();

/* ----- */
/**
 * Get the suspended response.
 * @return the {@link ServletResponse} passed to {@link #suspend(ServletResponse)}.

```

```

*/
ServletResponse getServletResponse();

/* ----- */
/**
 * Add a ContinuationListener.
 *
 * @param listener
 */
void addContinuationListener(ContinuationListener listener);

/* ----- */
/** Set a request attribute.
 * This method is a convenience method to call the { @link ServletRequest#setAttribute(String, Object) }
 * method on the associated request object.
 * This is a thread safe call and may be called by any thread.
 * @param name the attribute name
 * @param attribute the attribute value
 */
public void setAttribute(String name, Object attribute);

/* ----- */
/** Get a request attribute.
 * This method is a convenience method to call the { @link ServletRequest#getAttribute(String) }
 * method on the associated request object.
 * This is a thread safe call and may be called by any thread.
 * @param name the attribute name
 * @return the attribute value
 */
public Object getAttribute(String name);

/* ----- */
/** Remove a request attribute.
 * This method is a convenience method to call the { @link ServletRequest#removeAttribute(String) }
 * method on the associated request object.
 * This is a thread safe call and may be called by any thread.
 * @param name the attribute name
 */
public void removeAttribute(String name);

/* ----- */
/**
 * Undispatch the request.
 * <p>
 * This method can be called on a suspended continuation in order
 * to exit the dispatch to the filter/servlet by throwing a { @link ContinuationThrowable }
 * which is caught either by the container or the { @link ContinuationFilter }.
 * This is an alternative to simply returning from the dispatch in the case

```



```

* where filters in the filter chain may not be prepared to handle a suspended
* request.
* </p>
* This method should only be used as a last resort and a normal return is a preferable
* solution if filters can be updated to handle that case.
*
* @throws ContinuationThrowable thrown if the request is suspended. The instance of the
* exception may be reused on subsequent calls, so the stack frame may not be accurate.
*/
public void undispatch() throws ContinuationThrowable;
}

```

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1.67 jetty-eventsource-servlet 1.0.0

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//
```

```
package org.eclipse.jetty.http;
```

```
import java.io.IOException;
```

```
import org.eclipse.jetty.io.Buffer;
import org.eclipse.jetty.io Buffers;
import org.eclipse.jetty.io.ByteArrayBuffer;
import org.eclipse.jetty.io.EndPoint;
import org.eclipse.jetty.io.EOFException;
import org.eclipse.jetty.io.View;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
```

```
/* ----- */
/**
```

```
* Abstract Generator. Builds HTTP Messages.
```

```
*
```

```
* Currently this class uses a system parameter "jetty.direct.writers" to control
* two optional writer to byte conversions. buffer.writers=true will probably be
* faster, but will consume more memory. This option is just for testing and tuning.
```

```
*
```

```
*/
```

```
public abstract class AbstractGenerator implements Generator
```

```
{
```

```
    private static final Logger LOG = Log.getLogger(AbstractGenerator.class);
```

```
    // states
```

```
    public final static int STATE_HEADER = 0;
```

```
    public final static int STATE_CONTENT = 2;
```

```
    public final static int STATE_FLUSHING = 3;
```

```
    public final static int STATE_END = 4;
```

```
    public static final byte[] NO_BYTES = {};
```

```

// data

protected final Buffers _buffers; // source of buffers
protected final EndPoint _endp;

protected int _state = STATE_HEADER;

protected int _status = 0;
protected int _version = HttpVersions.HTTP_1_1_ORDINAL;
protected Buffer _reason;
protected Buffer _method;
protected String _uri;

protected long _contentWritten = 0;
protected long _contentLength = HttpTokens.UNKNOWN_CONTENT;
protected boolean _last = false;
protected boolean _head = false;
protected boolean _noContent = false;
protected Boolean _persistent = null;

protected Buffer _header; // Buffer for HTTP header (and maybe small _content)
protected Buffer _buffer; // Buffer for copy of passed _content
protected Buffer _content; // Buffer passed to addContent

protected Buffer _date;

private boolean _sendServerVersion;

/* ----- */
/**
 * Constructor.
 *
 * @param buffers buffer pool
 * @param io the end point
 */
public AbstractGenerator(Buffers buffers, EndPoint io)
{
    this._buffers = buffers;
    this._endp = io;
}

/* ----- */
public abstract boolean isRequest();

/* ----- */
public abstract boolean isResponse();

```

```

/* ----- */
public boolean isOpen()
{
    return _endp.isOpen();
}

/* ----- */
public void reset()
{
    _state = STATE_HEADER;
    _status = 0;
    _version = HttpVersions.HTTP_1_1_ORDINAL;
    _reason = null;
    _last = false;
    _head = false;
    _noContent=false;
    _persistent = null;
    _contentWritten = 0;
    _contentLength = HttpTokens.UNKNOWN_CONTENT;
    _date = null;

    _content = null;
    _method=null;
}

/* ----- */
public void returnBuffers()
{
    if (_buffer!=null && _buffer.length()==0)
    {
        _buffers.returnBuffer(_buffer);
        _buffer=null;
    }

    if (_header!=null && _header.length()==0)
    {
        _buffers.returnBuffer(_header);
        _header=null;
    }
}

/* ----- */
public void resetBuffer()
{
    if(_state>=STATE_FLUSHING)
        throw new IllegalStateException("Flushed");
}

```

```

    _last = false;
    _persistent=null;
    _contentWritten = 0;
    _contentLength = HttpTokens.UNKNOWN_CONTENT;
    _content=null;
    if (_buffer!=null)
        _buffer.clear();
}

/* ----- */
/**
 * @return Returns the contentBufferSize.
 */
public int getContentBufferSize()
{
    if (_buffer==null)
        _buffer=_buffers.getBuffer();
    return _buffer.capacity();
}

/* ----- */
/**
 * @param contentBufferSize The contentBufferSize to set.
 */
public void increaseContentBufferSize(int contentBufferSize)
{
    if (_buffer==null)
        _buffer=_buffers.getBuffer();
    if (contentBufferSize > _buffer.capacity())
    {
        Buffer nb = _buffers.getBuffer(contentBufferSize);
        nb.put(_buffer);
        _buffers.returnBuffer(_buffer);
        _buffer = nb;
    }
}

/* ----- */
public Buffer getUncheckedBuffer()
{
    return _buffer;
}

/* ----- */
public boolean getSendServerVersion ()
{
    return _sendServerVersion;
}

```

```

/* ----- */
public void setSendServerVersion (boolean sendServerVersion)
{
    _sendServerVersion = sendServerVersion;
}

/* ----- */
public int getState()
{
    return _state;
}

/* ----- */
public boolean isState(int state)
{
    return _state == state;
}

/* ----- */
public boolean isComplete()
{
    return _state == STATE_END;
}

/* ----- */
public boolean isIdle()
{
    return _state == STATE_HEADER && _method==null && _status==0;
}

/* ----- */
public boolean isCommitted()
{
    return _state != STATE_HEADER;
}

/* ----- */
/**
 * @return Returns the head.
 */
public boolean isHead()
{
    return _head;
}

/* ----- */
public void setContentLength(long value)

```

```

{
    if (value<0)
        _contentLength=HttpTokens.UNKNOWN_CONTENT;
    else
        _contentLength=value;
}

/* ----- */
/**
 * @param head The head to set.
 */
public void setHead(boolean head)
{
    _head = head;
}

/* ----- */
/**
 * @return <code>false</code> if the connection should be closed after a request has been read,
 * <code>true</code> if it should be used for additional requests.
 */
public boolean isPersistent()
{
    return _persistent!=null
        ?_persistent.booleanValue()
        :(isRequest()?true:_version>HttpVersions.HTTP_1_0_ORDINAL);
}

/* ----- */
public void setPersistent(boolean persistent)
{
    _persistent=persistent;
}

/* ----- */
/**
 * @param version The version of the client the response is being sent to (NB. Not the version
 * in the response, which is the version of the server).
 */
public void setVersion(int version)
{
    if (_state != STATE_HEADER)
        throw new IllegalStateException("STATE!=START "+_state);
    _version = version;
    if (_version==HttpVersions.HTTP_0_9_ORDINAL && _method!=null)
        _noContent=true;
}

```



```

/* ----- */
public int getVersion()
{
    return _version;
}

/* ----- */
/**
 * @see org.eclipse.jetty.http.Generator#setDate(org.eclipse.jetty.io.Buffer)
 */
public void setDate(Buffer timeStampBuffer)
{
    _date=timeStampBuffer;
}

/* ----- */
/**
 */
public void setRequest(String method, String uri)
{
    if (method==null || HttpMethods.GET.equals(method) )
        _method=HttpMethods.GET_BUFFER;
    else
        _method=HttpMethods.CACHE.lookup(method);
    _uri=uri;
    if (_version==HttpVersions.HTTP_0_9_ORDINAL)
        _noContent=true;
}

/* ----- */
/**
 * @param status The status code to send.
 * @param reason the status message to send.
 */
public void setResponse(int status, String reason)
{
    if (_state != STATE_HEADER) throw new IllegalStateException("STATE!=START");
    _method=null;
    _status = status;
    if (reason!=null)
    {
        int len=reason.length();

        // TODO don't hard code
        if (len>1024)
            len=1024;
        _reason=new ByteBuffer(len);
        for (int i=0;i<len;i++)

```

```

        {
            char ch = reason.charAt(i);
            if (ch!='\r' && ch!='\n')
                _reason.put((byte)ch);
            else
                _reason.put((byte)' ');
        }
    }
}

/* ----- */
/** Prepare buffer for unchecked writes.
 * Prepare the generator buffer to receive unchecked writes
 * @return the available space in the buffer.
 * @throws IOException
 */
public abstract int prepareUncheckedAddContent() throws IOException;

/* ----- */
void uncheckedAddContent(int b)
{
    _buffer.put((byte)b);
}

/* ----- */
public void completeUncheckedAddContent()
{
    if (_noContent)
    {
        if (_buffer != null)
            _buffer.clear();
    }
    else
    {
        _contentWritten += _buffer.length();
        if (_head)
            _buffer.clear();
    }
}

/* ----- */
public boolean isBufferFull()
{
    if (_buffer != null && _buffer.space() == 0)
    {
        if (_buffer.length() == 0 && !_buffer.isImmutable())
            _buffer.compact();
        return _buffer.space() == 0;
    }
}

```

```

    }

    return _content!=null && _content.length()>0;
}

/* ----- */
public boolean isWritten()
{
    return _contentWritten>0;
}

/* ----- */
public boolean isAllContentWritten()
{
    return _contentLength>=0 && _contentWritten>=_contentLength;
}

/* ----- */
public abstract void completeHeader(HttpFields fields, boolean allContentAdded) throws IOException;

/* ----- */
/**
 * Complete the message.
 *
 * @throws IOException
 */
public void complete() throws IOException
{
    if (_state == STATE_HEADER)
    {
        throw new IllegalStateException("State==HEADER");
    }

    if (_contentLength >= 0 && _contentLength != _contentWritten && !_head)
    {
        if (LOG.isDebugEnabled())
            LOG.debug("ContentLength written=="+_contentWritten+" != contentLength=="+_contentLength);
        _persistent = false;
    }
}

/* ----- */
public abstract int flushBuffer() throws IOException;

/* ----- */
public void flush(long maxIdleTime) throws IOException
{

```

```

// block until everything is flushed
long now=System.currentTimeMillis();
long end=now+maxIdleTime;
Buffer content = _content;
Buffer buffer = _buffer;
if (content!=null && content.length()>0 || buffer!=null && buffer.length()>0 || isBufferFull())
{
    flushBuffer();

    while (now<end && (content!=null && content.length()>0 ||buffer!=null && buffer.length()>0) &&
_endp.isOpen()&& !_endp.isOutputShutdown())
    {
        blockForOutput(end-now);
        now=System.currentTimeMillis();
    }
}

/* ----- */
/**
 * Utility method to send an error response. If the builder is not committed, this call is
 * equivalent to a setResponse, addContent and complete call.
 *
 * @param code The error code
 * @param reason The error reason
 * @param content Contents of the error page
 * @param close True if the connection should be closed
 * @throws IOException if there is a problem flushing the response
 */
public void sendError(int code, String reason, String content, boolean close) throws IOException
{
    if (close)
        _persistent=false;
    if (isCommitted())
    {
        LOG.debug("sendError on committed: {} {}",code,reason);
    }
    else
    {
        LOG.debug("sendError: {} {}",code,reason);
        setResponse(code, reason);
        if (content != null)
        {
            completeHeader(null, false);
            addContent(new View(new ByteBuffer(content)), Generator.LAST);
        }
        else
        {

```

```

        completeHeader(null, true);
    }
    complete();
}

/* ----- */
/**
 * @return Returns the contentWritten.
 */
public long getContentWritten()
{
    return _contentWritten;
}

/* ----- */
public void blockForOutput(long maxIdleTime) throws IOException
{
    if (_endp.isBlocking())
    {
        try
        {
            flushBuffer();
        }
        catch(IOException e)
        {
            _endp.close();
            throw e;
        }
    }
    else
    {
        if (!_endp.blockWritable(maxIdleTime))
        {
            _endp.close();
            throw new EofException("timeout");
        }

        flushBuffer();
    }
}
}

```

1.69 jetty-io 8.1.7.v20120910

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```

```
package org.eclipse.jetty.io;
```

```

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;

import org.eclipse.jetty.util.TypeUtil;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;

/**
 *
 *
 */
public abstract class AbstractBuffer implements Buffer
{
    private static final Logger LOG = Log.getLogger(AbstractBuffer.class);

    private final static boolean __boundsChecking =
Boolean.getBoolean("org.eclipse.jetty.io.AbstractBuffer.boundsChecking");

    protected final static String
__IMMUTABLE = "IMMUTABLE",
__READONLY = "READONLY",
__READWRITE = "READWRITE",
__VOLATILE = "VOLATILE";

    protected int _access;
    protected boolean _volatile;

    protected int _get;
    protected int _put;
    protected int _hash;
    protected int _hashGet;
    protected int _hashPut;
    protected int _mark;
    protected String _string;
    protected View _view;

    /**
     * Constructor for BufferView
     *
     * @param access 0==IMMUTABLE, 1==READONLY, 2==READWRITE
     */
    public AbstractBuffer(int access, boolean isVolatile)
    {
        if (access == IMMUTABLE && isVolatile)
            throw new IllegalArgumentException("IMMUTABLE && VOLATILE");
        setMarkIndex(-1);
        _access = access;
    }

```

```

    _volatile = isVolatile;
}

/*
 * @see org.eclipse.io.Buffer#toArray()
 */
public byte[] toArray()
{
    byte[] bytes = new byte[length()];
    byte[] array = array();
    if (array != null)
        System.arraycopy(array, getIndex(), bytes, 0, bytes.length);
    else
        peek(getIndex(), bytes, 0, length());
    return bytes;
}

public ByteBuffer duplicate(int access)
{
    Buffer b=this.buffer();
    if (this instanceof Buffer.CaseInsensitive || b instanceof Buffer.CaseInsensitive)
        return new ByteBuffer.CaseInsensitive(toArray(), 0, length(),access);
    else
        return new ByteBuffer(toArray(), 0, length(), access);
}

/*
 * @see org.eclipse.io.Buffer#asNonVolatile()
 */
public Buffer asNonVolatileBuffer()
{
    if (!isVolatile()) return this;
    return duplicate(_access);
}

public Buffer asImmutableBuffer()
{
    if (isImmutable()) return this;
    return duplicate(IMMUTABLE);
}

/*
 * @see org.eclipse.util.Buffer#asReadOnlyBuffer()
 */
public Buffer asReadOnlyBuffer()
{
    if (isReadOnly()) return this;
    return new View(this, markIndex(), getIndex(), putIndex(), READONLY);
}

```

```

}

public Buffer asMutableBuffer()
{
    if (!isImmutable()) return this;

    Buffer b=this.buffer();
    if (b.isReadOnly())
    {
        return duplicate(READWRITE);
    }
    return new View(b, markIndex(), getIndex(), putIndex(), _access);
}

public Buffer buffer()
{
    return this;
}

public void clear()
{
    setMarkIndex(-1);
    setGetIndex(0);
    setPutIndex(0);
}

public void compact()
{
    if (isReadOnly()) throw new IllegalStateException(__READONLY);
    int s = markIndex() >= 0 ? markIndex() : getIndex();
    if (s > 0)
    {
        byte array[] = array();
        int length = putIndex() - s;
        if (length > 0)
        {
            if (array != null)
                System.arraycopy(array(), s, array(), 0, length);
            else
                poke(0, peek(s, length));
        }
        if (markIndex() > 0) setMarkIndex(markIndex() - s);
        setGetIndex(getIndex() - s);
        setPutIndex(putIndex() - s);
    }
}

@Override

```

```

public boolean equals(Object obj)
{
    if (obj==this)
        return true;

    // reject non buffers;
    if (obj == null || !(obj instanceof Buffer)) return false;
    Buffer b = (Buffer) obj;

    if (this instanceof Buffer.CaseInsensitve || b instanceof Buffer.CaseInsensitve)
        return equalsIgnoreCase(b);

    // reject different lengths
    if (b.length() != length()) return false;

    // reject AbstractBuffer with different hash value
    if (_hash != 0 && obj instanceof AbstractBuffer)
    {
        AbstractBuffer ab = (AbstractBuffer) obj;
        if (ab._hash != 0 && _hash != ab._hash) return false;
    }

    // Nothing for it but to do the hard grind.
    int get=getIndex();
    int bi=b.putIndex();
    for (int i = putIndex(); i-->get;)
    {
        byte b1 = peek(i);
        byte b2 = b.peek(--bi);
        if (b1 != b2) return false;
    }
    return true;
}

```

```

public boolean equalsIgnoreCase(Buffer b)
{
    if (b==this)
        return true;

    // reject different lengths
    if (b.length() != length()) return false;

    // reject AbstractBuffer with different hash value
    if (_hash != 0 && b instanceof AbstractBuffer)
    {
        AbstractBuffer ab = (AbstractBuffer) b;
        if (ab._hash != 0 && _hash != ab._hash) return false;
    }
}

```



```

// Nothing for it but to do the hard grind.
int get=getIndex();
int bi=b.putIndex();

byte[] array = array();
byte[] barray= b.array();
if (array!=null && barray!=null)
{
    for (int i = putIndex(); i-->get;)
    {
        byte b1 = array[i];
        byte b2 = barray[--bi];
        if (b1 != b2)
        {
            if ('a' <= b1 && b1 <= 'z') b1 = (byte) (b1 - 'a' + 'A');
            if ('a' <= b2 && b2 <= 'z') b2 = (byte) (b2 - 'a' + 'A');
            if (b1 != b2) return false;
        }
    }
}
else
{
    for (int i = putIndex(); i-->get;)
    {
        byte b1 = peek(i);
        byte b2 = b.peek(--bi);
        if (b1 != b2)
        {
            if ('a' <= b1 && b1 <= 'z') b1 = (byte) (b1 - 'a' + 'A');
            if ('a' <= b2 && b2 <= 'z') b2 = (byte) (b2 - 'a' + 'A');
            if (b1 != b2) return false;
        }
    }
}
return true;
}

public byte get()
{
    return peek(_get++);
}

public int get(byte[] b, int offset, int length)
{
    int gi = getIndex();
    int l=length();
    if (l==0)

```

```

        return -1;

    if (length>1)
        length=1;

    length = peek(gi, b, offset, length);
    if (length>0)
        setGetIndex(gi + length);
    return length;
}

public Buffer get(int length)
{
    int gi = getIndex();
    Buffer view = peek(gi, length);
    setGetIndex(gi + length);
    return view;
}

public final int getIndex()
{
    return _get;
}

public boolean hasContent()
{
    return _put > _get;
}

@Override
public int hashCode()
{
    if (_hash == 0 || _hashGet!=_get || _hashPut!=_put)
    {
        int get=getIndex();
        byte[] array = array();
        if (array==null)
        {
            for (int i = putIndex(); i-- >get;)
            {
                byte b = peek(i);
                if ('a' <= b && b <= 'z')
                    b = (byte) (b - 'a' + 'A');
                _hash = 31 * _hash + b;
            }
        }
        else
        {

```

```

        for (int i = putIndex(); i-- >get;)
        {
            byte b = array[i];
            if ('a' <= b && b <= 'z')
                b = (byte) (b - 'a' + 'A');
            _hash = 31 * _hash + b;
        }
    }
    if (_hash == 0)
        _hash = -1;
    _hashGet=_get;
    _hashPut=_put;

}
return _hash;
}

public boolean isImmutable()
{
    return _access <= IMMUTABLE;
}

public boolean isReadOnly()
{
    return _access <= READONLY;
}

public boolean isVolatile()
{
    return _volatile;
}

public int length()
{
    return _put - _get;
}

public void mark()
{
    setMarkIndex(_get - 1);
}

public void mark(int offset)
{
    setMarkIndex(_get + offset);
}

public int markIndex()

```

```

{
    return _mark;
}

public byte peek()
{
    return peek(_get);
}

public Buffer peek(int index, int length)
{
    if (_view == null)
    {
        _view = new View(this, -1, index, index + length, isReadOnly() ? READONLY : READWRITE);
    }
    else
    {
        _view.update(this.buffer());
        _view.setMarkIndex(-1);
        _view.setGetIndex(0);
        _view.setPutIndex(index + length);
        _view.setGetIndex(index);
    }
    return _view;
}

public int poke(int index, Buffer src)
{
    _hash=0;
    /*
    if (isReadOnly())
        throw new IllegalStateException(__READONLY);
    if (index < 0)
        throw new IllegalArgumentException("index<0: " + index + "<0");
    */

    int length=src.length();
    if (index + length > capacity())
    {
        length=capacity()-index;
        /*
        if (length<0)
            throw new IllegalArgumentException("index>capacity(): " + index + ">" + capacity());
        */
    }

    byte[] src_array = src.array();

```

```

byte[] dst_array = array();
if (src_array != null && dst_array != null)
    System.arraycopy(src_array, src.getIndex(), dst_array, index, length);
else if (src_array != null)
{
    int s=src.getIndex();
    for (int i=0;i<length;i++)
        poke(index++,src_array[s++]);
}
else if (dst_array != null)
{
    int s=src.getIndex();
    for (int i=0;i<length;i++)
        dst_array[index++]=src.peek(s++);
}
else
{
    int s=src.getIndex();
    for (int i=0;i<length;i++)
        poke(index++,src.peek(s++));
}

return length;
}

```

```

public int poke(int index, byte[] b, int offset, int length)
{
    _hash=0;
    /*
    if (isReadOnly())
        throw new IllegalStateException(__READONLY);
    if (index < 0)
        throw new IllegalArgumentException("index<0: " + index + "<0");
    */
    if (index + length > capacity())
    {
        length=capacity()-index;
        /* if (length<0)
            throw new IllegalArgumentException("index>capacity(): " + index + ">" + capacity());
        */
    }

    byte[] dst_array = array();
    if (dst_array != null)
        System.arraycopy(b, offset, dst_array, index, length);
    else
    {

```

```

        int s=offset;
        for (int i=0;i<length;i++)
            poke(index++,b[s++]);
    }
    return length;
}

public int put(Buffer src)
{
    int pi = putIndex();
    int l=poke(pi, src);
    setPutIndex(pi + 1);
    return l;
}

public void put(byte b)
{
    int pi = putIndex();
    poke(pi, b);
    setPutIndex(pi + 1);
}

public int put(byte[] b, int offset, int length)
{
    int pi = putIndex();
    int l = poke(pi, b, offset, length);
    setPutIndex(pi + 1);
    return l;
}

public int put(byte[] b)
{
    int pi = putIndex();
    int l = poke(pi, b, 0, b.length);
    setPutIndex(pi + 1);
    return l;
}

public final int putIndex()
{
    return _put;
}

public void reset()
{
    if (markIndex() >= 0) setGetIndex(markIndex());
}

```

```

public void rewind()
{
    setGetIndex(0);
    setMarkIndex(-1);
}

public void setGetIndex(int getIndex)
{
    /* bounds checking
    if (isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    if (getIndex < 0)
        throw new IllegalArgumentException("getIndex<0: " + getIndex + "<0");
    if (getIndex > putIndex())
        throw new IllegalArgumentException("getIndex>putIndex: " + getIndex + ">" + putIndex());
    */
    _get = getIndex;
    _hash=0;
}

public void setMarkIndex(int index)
{
    /*
    if (index>=0 && isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    */
    _mark = index;
}

public void setPutIndex(int putIndex)
{
    /* bounds checking
    if (isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    if (putIndex > capacity())
        throw new IllegalArgumentException("putIndex>capacity: " + putIndex + ">" + capacity());
    if (getIndex() > putIndex)
        throw new IllegalArgumentException("getIndex>putIndex: " + getIndex() + ">" + putIndex);
    */
    _put = putIndex;
    _hash=0;
}

public int skip(int n)
{
    if (length() < n) n = length();
    setGetIndex(getIndex() + n);
    return n;
}

```

```

}

public Buffer slice()
{
    return peek(getIndex(), length());
}

public Buffer sliceFromMark()
{
    return sliceFromMark(getIndex() - markIndex() - 1);
}

public Buffer sliceFromMark(int length)
{
    if (markIndex() < 0) return null;
    Buffer view = peek(markIndex(), length);
    setMarkIndex(-1);
    return view;
}

public int space()
{
    return capacity() - _put;
}

public String toDetailString()
{
    StringBuilder buf = new StringBuilder();
    buf.append("[");
    buf.append(super.hashCode());
    buf.append(",");
    buf.append(this.buffer().hashCode());
    buf.append(",m=");
    buf.append(markIndex());
    buf.append(",g=");
    buf.append(getIndex());
    buf.append(",p=");
    buf.append(putIndex());
    buf.append(",c=");
    buf.append(capacity());
    buf.append("]={");
    if (markIndex() >= 0)
    {
        for (int i = markIndex(); i < getIndex(); i++)
        {
            byte b = peek(i);
            TypeUtil.toHexString(b,buf);
        }
    }
}

```



```

        buf.append("{}");
    }
    int count = 0;
    for (int i = getIndex(); i < putIndex(); i++)
    {
        byte b = peek(i);
        TypeUtil.toHex(b,buf);
        if (count++ == 50)
        {
            if (putIndex() - i > 20)
            {
                buf.append(" ... ");
                i = putIndex() - 20;
            }
        }
    }
    buf.append(' ');
    return buf.toString();
}

/* ----- */
@Override
public String toString()
{
    if (isImmutable())
    {
        if (_string == null)
            _string = new String(asArray(), 0, length());
        return _string;
    }
    return new String(asArray(), 0, length());
}

/* ----- */
public String toString(String charset)
{
    try
    {
        byte[] bytes=array();
        if (bytes!=null)
            return new String(bytes,getIndex(),length(),charset);
        return new String(asArray(), 0, length(),charset);
    }
    catch(Exception e)
    {
        LOG.warn(e);
        return new String(asArray(), 0, length());
    }
}

```

```

    }
}

/* ----- */
public String toDebugString()
{
    return getClass()+"@"+super.hashCode();
}

/* ----- */
public void writeTo(OutputStream out)
throws IOException
{
    byte[] array = array();

    if (array!=null)
    {
        out.write(array,getIndex(),length());
    }
    else
    {
        int len = this.length();
        byte[] buf=new byte[len>1024?1024:len];
        int offset=_get();
        while (len>0)
        {
            int l=peek(offset,buf,0,len>buf.length?buf.length:len);
            out.write(buf,0,l);
            offset+=l;
            len-=l;
        }
    }
    clear();
}

/* ----- */
public int readFrom(InputStream in,int max) throws IOException
{
    byte[] array = array();
    int s=space();
    if (s>max)
        s=max;

    if (array!=null)
    {
        int l=in.read(array,_put,s);
        if (l>0)
            _put+=l;
    }
}

```

```

        return l;
    }
    else
    {
        byte[] buf=new byte[s>1024?1024:s];
        int total=0;
        while (s>0)
        {
            int l=in.read(buf,0,buf.length);
            if (l<0)
                return total>0?total:-1;
            int p=put(buf,0,l);
            assert l==p;
            s-=l;
        }
        return total;
    }
}
}
}

```

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//

// =====

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```
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// =====
//
```

```
package org.eclipse.jetty.servlet;
```

```
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.ArrayList;
import java.util.Enumeration;
import java.util.List;
import java.util.Map;
```

```
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.UnavailableException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

```
import org.eclipse.jetty.http.HttpContent;
import org.eclipse.jetty.http.HttpFields;
import org.eclipse.jetty.http.HttpHeaderValues;
import org.eclipse.jetty.http.HttpHeaders;
import org.eclipse.jetty.http.HttpMethods;
import org.eclipse.jetty.http.MimeTypes;
import org.eclipse.jetty.io.Buffer;
import org.eclipse.jetty.io.ByteArrayBuffer;
import org.eclipse.jetty.io.WriterOutputStream;
import org.eclipse.jetty.server.AbstractHttpConnection;
import org.eclipse.jetty.server.Connector;
import org.eclipse.jetty.server.Dispatcher;
import org.eclipse.jetty.server.HttpOutput;
import org.eclipse.jetty.server.InclusiveByteRange;
import org.eclipse.jetty.server.ResourceCache;
```

```

import org.eclipse.jetty.server.Response;
import org.eclipse.jetty.server.handler.ContextHandler;
import org.eclipse.jetty.server.nio.NIOConnector;
import org.eclipse.jetty.server.ssl.SslConnector;
import org.eclipse.jetty.util.IO;
import org.eclipse.jetty.util.MultiPartOutputStream;
import org.eclipse.jetty.util.URIUtil;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
import org.eclipse.jetty.util.resource.FileResource;
import org.eclipse.jetty.util.resource.Resource;
import org.eclipse.jetty.util.resource.ResourceCollection;
import org.eclipse.jetty.util.resource.ResourceFactory;

```

```

/* ----- */
/** The default servlet.
 * This servlet, normally mapped to /, provides the handling for static
 * content, OPTION and TRACE methods for the context.
 * The following initParameters are supported, these can be set either
 * on the servlet itself or as ServletContext initParameters with a prefix
 * of org.eclipse.jetty.servlet.Default. :
 * <PRE>
 * acceptRanges    If true, range requests and responses are
 *                  supported
 *
 * dirAllowed      If true, directory listings are returned if no
 *                  welcome file is found. Else 403 Forbidden.
 *
 * welcomeServlets If true, attempt to dispatch to welcome files
 *                  that are servlets, but only after no matching static
 *                  resources could be found. If false, then a welcome
 *                  file must exist on disk. If "exact", then exact
 *                  servlet matches are supported without an existing file.
 *                  Default is true.
 *
 *                  This must be false if you want directory listings,
 *                  but have index.jsp in your welcome file list.
 *
 * redirectWelcome If true, welcome files are redirected rather than
 *                  forwarded to.
 *
 * gzip            If set to true, then static content will be served as
 *                  gzip content encoded if a matching resource is
 *                  found ending with ".gz"
 *
 * resourceBase    Set to replace the context resource base

```

```

*
* resourceCache    If set, this is a context attribute name, which the servlet
*                  will use to look for a shared ResourceCache instance.
*
* relativeResourceBase
*                  Set with a pathname relative to the base of the
*                  servlet context root. Useful for only serving static content out
*                  of only specific subdirectories.
*
* pathInfoOnly    If true, only the path info will be applied to the resourceBase
*
* stylesheet      Set with the location of an optional stylesheet that will be used
*                  to decorate the directory listing html.
*
* aliases         If True, aliases of resources are allowed (eg. symbolic
*                  links and caps variations). May bypass security constraints.
*
* maxCacheSize    The maximum total size of the cache or 0 for no cache.
* maxCachedFileSize The maximum size of a file to cache
* maxCachedFiles  The maximum number of files to cache
*
* useFileMappedBuffer
*                  If set to true, it will use mapped file buffer to serve static content
*                  when using NIO connector. Setting this value to false means that
*                  a direct buffer will be used instead of a mapped file buffer.
*                  By default, this is set to true.
*
* cacheControl    If set, all static content will have this value set as the cache-control
*                  header.
*
*
* </PRE>
*
*
*
*
*/

```

```

public class DefaultServlet extends HttpServlet implements ResourceFactory
{
    private static final Logger LOG = Log.getLogger(DefaultServlet.class);

    private static final long serialVersionUID = 4930458713846881193L;
    private ServletContext _servletContext;
    private ContextHandler _contextHandler;

    private boolean _acceptRanges=true;
    private boolean _dirAllowed=true;
    private boolean _welcomeServlets=false;

```

```

private boolean _welcomeExactServlets=false;
private boolean _redirectWelcome=false;
private boolean _gzip=true;
private boolean _pathInfoOnly=false;

private Resource _resourceBase;
private ResourceCache _cache;

private MimeTypes _mimeTypes;
private String[] _welcomes;
private Resource _stylesheet;
private boolean _useFileMappedBuffer=false;
private ByteBuffer _cacheControl;
private String _relativeResourceBase;
private ServletHandler _servletHandler;
private ServletHolder _defaultHolder;

/* ----- */
@Override
public void init()
throws UnavailableException
{
    _servletContext=getServletContext();
    _contextHandler = initContextHandler(_servletContext);

    _mimeTypes = _contextHandler.getMimeTypes();

    _welcomes = _contextHandler.getWelcomeFiles();
    if (_welcomes==null)
        _welcomes=new String[] { "index.html", "index.jsp" };

    _acceptRanges=getInitBoolean("acceptRanges",_acceptRanges);
    _dirAllowed=getInitBoolean("dirAllowed",_dirAllowed);
    _redirectWelcome=getInitBoolean("redirectWelcome",_redirectWelcome);
    _gzip=getInitBoolean("gzip",_gzip);
    _pathInfoOnly=getInitBoolean("pathInfoOnly",_pathInfoOnly);

    if ("exact".equals(getInitParameter("welcomeServlets")))
    {
        _welcomeExactServlets=true;
        _welcomeServlets=false;
    }
    else
        _welcomeServlets=getInitBoolean("welcomeServlets", _welcomeServlets);

    if (getInitParameter("aliases")!=null)
        _contextHandler.setAliases(getInitBoolean("aliases",false));
}

```



```

boolean aliases=_contextHandler.isAliases();
if (!aliases && !FileResource.getCheckAliases())
    throw new IllegalStateException("Alias checking disabled");
if (aliases)
    _servletContext.log("Aliases are enabled");

_useFileMappedBuffer=getInitBoolean("useFileMappedBuffer",_useFileMappedBuffer);

_relativeResourceBase = getInitParameter("relativeResourceBase");

String rb=getInitParameter("resourceBase");
if (rb!=null)
{
    if (_relativeResourceBase!=null)
        throw new UnavailableException("resourceBase & relativeResourceBase");
    try{_resourceBase=_contextHandler.newResource(rb);}
    catch (Exception e)
    {
        LOG.warn(Log.EXCEPTION,e);
        throw new UnavailableException(e.toString());
    }
}

String css=getInitParameter("stylesheet");
try
{
    if(css!=null)
    {
        _stylesheet = Resource.newResource(css);
        if(!_stylesheet.exists())
        {
            LOG.warn("!" + css);
            _stylesheet = null;
        }
    }
    if(_stylesheet == null)
    {
        _stylesheet = Resource.newResource(this.getClass().getResource("/jetty-dir.css"));
    }
}
catch(Exception e)
{
    LOG.warn(e.toString());
    LOG.debug(e);
}

String t=getInitParameter("cacheControl");

```

```

if (t!=null)
    _cacheControl=new ByteBuffer(t);

String resourceCache = getInitParameter("resourceCache");
int max_cache_size=getInitInt("maxCacheSize", -2);
int max_cached_file_size=getInitInt("maxCachedFileSize", -2);
int max_cached_files=getInitInt("maxCachedFiles", -2);
if (resourceCache!=null)
{
    if (max_cache_size!=-1 || max_cached_file_size!= -2 || max_cached_files!=-2)
        LOG.debug("ignoring resource cache configuration, using resourceCache attribute");
    if (_relativeResourceBase!=null || _resourceBase!=null)
        throw new UnavailableException("resourceCache specified with resource bases");
    _cache=(ResourceCache)_servletContext.getAttribute(resourceCache);

    LOG.debug("Cache {}={}",resourceCache,_cache);
}

try
{
    if (_cache==null && max_cached_files>0)
    {
        _cache= new ResourceCache(null,this,_mimeTypes,_useFileMappedBuffer);

        if (max_cache_size>0)
            _cache.setMaxCacheSize(max_cache_size);
        if (max_cached_file_size>=-1)
            _cache.setMaxCachedFileSize(max_cached_file_size);
        if (max_cached_files>=-1)
            _cache.setMaxCachedFiles(max_cached_files);
    }
}
catch (Exception e)
{
    LOG.warn(Log.EXCEPTION,e);
    throw new UnavailableException(e.toString());
}

_servletHandler= (ServletHandler) _contextHandler.getChildHandlerByClass(ServletHandler.class);
for (ServletHolder h :_servletHandler.getServlets())
    if (h.getServletInstance()==this)
        _defaultHolder=h;

if (LOG.isDebugEnabled())
    LOG.debug("resource base = "+_resourceBase);
}

/**

```

```

* Compute the field _contextHandler.<br/>
* In the case where the DefaultServlet is deployed on the HttpService it is likely that
* this method needs to be overwritten to unwrap the ServletContext facade until we reach
* the original jetty's ContextHandler.
* @param servletContext The servletContext of this servlet.
* @return the jetty's ContextHandler for this servletContext.
*/
protected ContextHandler initContextHandler(ServletContext servletContext)
{
    ContextHandler.Context scontext=ContextHandler.getCurrentContext();
    if (scontext==null)
    {
        if (servletContext instanceof ContextHandler.Context)
            return ((ContextHandler.Context)servletContext).getContextHandler();
        else
            throw new IllegalArgumentException("The servletContext " + servletContext + " " +
                servletContext.getClass().getName() + " is not " + ContextHandler.Context.class.getName());
    }
    else
        return ContextHandler.getCurrentContext().getContextHandler();
}

/* ----- */
@Override
public String getInitParameter(String name)
{
    String value=getServletContext().getInitParameter("org.eclipse.jetty.servlet.Default."+name);
    if (value==null)
        value=super.getInitParameter(name);
    return value;
}

/* ----- */
private boolean getInitBoolean(String name, boolean dft)
{
    String value=getInitParameter(name);
    if (value==null || value.length()==0)
        return dft;
    return (value.startsWith("t")||
        value.startsWith("T")||
        value.startsWith("y")||
        value.startsWith("Y")||
        value.startsWith("1"));
}

/* ----- */
private int getInitInt(String name, int dft)
{

```

```

String value=getInitParameter(name);
if (value==null)
    value=getInitParameter(name);
if (value!=null && value.length()>0)
    return Integer.parseInt(value);
return dft;
}

/* ----- */
/** get Resource to serve.
 * Map a path to a resource. The default implementation calls
 * HttpContext.getResource but derived servlets may provide
 * their own mapping.
 * @param pathInContext The path to find a resource for.
 * @return The resource to serve.
 */
public Resource getResource(String pathInContext)
{
    Resource r=null;
    if (_relativeResourceBase!=null)
        pathInContext=URIUtil.addPaths(_relativeResourceBase,pathInContext);

    try
    {
        if (_resourceBase!=null)
        {
            r = _resourceBase.addPath(pathInContext);
        }
        else
        {
            URL u = _servletContext.getResource(pathInContext);
            r = _contextHandler.newResource(u);
        }

        if (LOG.isDebugEnabled())
            LOG.debug("Resource "+pathInContext+"="+r);
    }
    catch (IOException e)
    {
        LOG.ignore(e);
    }

    if((r==null || !r.exists()) && pathInContext.endsWith("/jetty-dir.css"))
        r=_stylesheet;

    return r;
}

```

```

/* ----- */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
{
    String servletPath=null;
    String pathInfo=null;
    Enumeration<String> reqRanges = null;
    Boolean included =request.getAttribute(Dispatcher.INCLUDE_REQUEST_URI)!=null;
    if (included!=null && included.booleanValue())
    {
        servletPath=(String)request.getAttribute(Dispatcher.INCLUDE_SERVLET_PATH);
        pathInfo=(String)request.getAttribute(Dispatcher.INCLUDE_PATH_INFO);
        if (servletPath==null)
        {
            servletPath=request.getServletPath();
            pathInfo=request.getPathInfo();
        }
    }
    else
    {
        included = Boolean.FALSE;
        servletPath = _pathInfoOnly?"":request.getServletPath();
        pathInfo = request.getPathInfo();

        // Is this a Range request?
        reqRanges = request.getHeaders(Headers.RANGE);
        if (!hasDefinedRange(reqRanges))
            reqRanges = null;
    }

    String pathInContext=URIUtil.addPaths(servletPath,pathInfo);
    boolean endsWithSlash=(pathInfo==null?request.getServletPath():pathInfo).endsWith(URIUtil.SLASH);

    // Can we gzip this request?
    String pathInContextGz=null;
    boolean gzip=false;
    if (!included.booleanValue() && !_gzip && reqRanges==null && !endsWithSlash )
    {
        // Tell caches that response may vary by accept-encoding
        response.setHeader(Headers.VARY,Headers.ACCEPT_ENCODING);
        // Should we vary this response according to accept-encoding?
        String accept=request.getHeader(Headers.ACCEPT_ENCODING);
        if (accept!=null && accept.indexOf("gzip")>=0)
            gzip=true;
    }

    // Find the resource and content

```

```

Resource resource=null;
HttpContent content=null;

try
{
    // Try gzipped content first
    if (gzip)
    {
        pathInContextGz=pathInContext+".gz";

        if (_cache==null)
        {
            resource=getResource(pathInContextGz);
        }
        else
        {
            content=_cache.lookup(pathInContextGz);
            resource=(content==null)?null:content.getResource();
        }

        if (resource==null || !resource.exists() || resource.isDirectory())
        {
            gzip=false;
            pathInContextGz=null;
        }
    }

    // find resource
    if (!gzip)
    {
        if (_cache==null)
            resource=getResource(pathInContext);
        else
        {
            content=_cache.lookup(pathInContext);
            resource=content==null?null:content.getResource();
        }
    }

    if (LOG.isDebugEnabled())
        LOG.debug("uri="+request.getRequestURI()+" resource="+resource+(content!=null?" content:");

    // Handle resource
    if (resource==null || !resource.exists())
    {
        if (included)
            throw new FileNotFoundException("!" + pathInContext);
        response.sendError(HttpServletResponse.SC_NOT_FOUND);
    }
}

```

```

    }
    else if (!resource.isDirectory())
    {
        if (endsWithSlash && _contextHandler.isAliases() && pathInContext.length()>1)
        {
            String q=request.getQueryString();
            pathInContext=pathInContext.substring(0,pathInContext.length()-1);
            if (q!=null&&q.length()!=0)
                pathInContext+="?" +q;
            response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(_servletContext.getContextPath(),pathInContext)));
        }
        else
        {
            // ensure we have content
            if (content==null)
                content=new
                HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeTypeByExtension(resource.toString()),response.get
                BufferSize());

            if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
            {
                if (gzip)
                {
                    response.setHeader(HttpHeaders.CONTENT_ENCODING,"gzip");
                    String mt=_servletContext.getMimeType(pathInContext);
                    if (mt!=null)
                        response.setContentType(mt);
                }
                sendData(request,response,included.booleanValue(),resource,content,reqRanges);
            }
        }
    }
    else
    {
        String welcome=null;

        if (!endsWithSlash || (pathInContext.length()==1 &&
        request.getAttribute("org.eclipse.jetty.server.nullPathInfo")!=null))
        {
            StringBuffer buf=request.getRequestURL();
            synchronized(buf)
            {
                int param=buf.lastIndexOf(";");
                if (param<0)
                    buf.append('/');
                else
                    buf.insert(param, '/');
            }
        }
    }
}

```



```

        }
    }
}
catch(IllegalArgumentException e)
{
    LOG.warn(Log.EXCEPTION,e);
    if(!response.isCommitted())
        response.sendError(500, e.getMessage());
}
finally
{
    if (content!=null)
        content.release();
    else if (resource!=null)
        resource.release();
}
}

/* ----- */
private boolean hasDefinedRange(Enumeration<String> reqRanges)
{
    return (reqRanges!=null && reqRanges.hasMoreElements());
}

/* ----- */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
{
    doGet(request,response);
}

/* ----- */
/* (non-Javadoc)
 * @see javax.servlet.http.HttpServlet#doTrace(javax.servlet.http.HttpServletRequest,
javax.servlet.http.HttpServletResponse)
 */
@Override
protected void doTrace(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException
{
    resp.sendError(HttpServletResponse.SC_METHOD_NOT_ALLOWED);
}

/* ----- */
@Override
protected void doOptions(HttpServletRequest req, HttpServletResponse resp)
throws ServletException, IOException

```

```

    {
        resp.setHeader("Allow", "GET,HEAD,POST,OPTIONS");
    }

    /* ----- */
    /**
     * Finds a matching welcome file for the supplied { @link Resource}. This will be the first entry in the list of
     * configured { @link #_welcomes welcome files} that existing within the directory referenced by the
     <code>Resource</code>.
     * If the resource is not a directory, or no matching file is found, then it may look for a valid servlet mapping.
     * If there is none, then <code>null</code> is returned.
     * The list of welcome files is read from the { @link ContextHandler} for this servlet, or
     * <code>"index.jsp" , "index.html"</code> if that is <code>null</code>.
     * @param resource
     * @return The path of the matching welcome file in context or null.
     * @throws IOException
     * @throws MalformedURLException
     */
    private String getWelcomeFile(String pathInContext) throws MalformedURLException, IOException
    {
        if (_welcomes==null)
            return null;

        String welcome_servlet=null;
        for (int i=0;i<_welcomes.length;i++)
        {
            String welcome_in_context=URIUtil.addPaths(pathInContext,_welcomes[i]);
            Resource welcome=getResource(welcome_in_context);
            if (welcome!=null && welcome.exists())
                return _welcomes[i];

            if ((_welcomeServlets || _welcomeExactServlets) && welcome_servlet==null)
            {
                Map.Entry entry=_servletHandler.getHolderEntry(welcome_in_context);
                if (entry!=null && entry.getValue()!=_defaultHolder &&
                    (_welcomeServlets || (_welcomeExactServlets && entry.getKey().equals(welcome_in_context))))
                    welcome_servlet=welcome_in_context;
            }
        }
        return welcome_servlet;
    }

    /* ----- */
    /** Check modification date headers.
     */
    protected boolean passConditionalHeaders(HttpServletRequest request,HttpServletResponse response, Resource
    resource, HttpContent content)

```

```

throws IOException
{
    try
    {
        if (!request.getMethod().equals(HttpMethods.HEAD) )
        {
            String ifms=request.getHeader(HttpHeaders.IF_MODIFIED_SINCE);
            if (ifms!=null)
            {
                //Get jetty's Response impl
                Response r = Response.getResponse(response);

                if (content!=null)
                {
                    Buffer mdlm=content.getLastModified();
                    if (mdlm!=null)
                    {
                        if (ifms.equals(mdlm.toString()))
                        {
                            {
                                r.reset(true);
                                r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
                                r.flushBuffer();
                                return false;
                            }
                        }
                    }
                }

                long ifmsl=request.getDateHeader(HttpHeaders.IF_MODIFIED_SINCE);
                if (ifmsl!=-1)
                {
                    if (resource.lastModified()/1000 <= ifmsl/1000)
                    {
                        {
                            r.reset(true);
                            r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
                            r.flushBuffer();
                            return false;
                        }
                    }
                }
            }

            // Parse the if[un]modified dates and compare to resource
            long date=request.getDateHeader(HttpHeaders.IF_UNMODIFIED_SINCE);

            if (date!=-1)
            {
                if (resource.lastModified()/1000 > date/1000)
                {
                    response.sendError(HttpServletResponse.SC_PRECONDITION_FAILED);
                }
            }
        }
    }
}

```

```

        return false;
    }
}

}
}
catch(IllegalArgumentException iae)
{
    if(!response.isCommitted())
        response.sendError(400, iae.getMessage());
    throw iae;
}
return true;
}

/* ----- */
protected void sendDirectory(HttpServletRequest request,
    HttpServletResponse response,
    Resource resource,
    String pathInContext)
throws IOException
{
    if (!_dirAllowed)
    {
        response.sendError(HttpServletResponse.SC_FORBIDDEN);
        return;
    }

    byte[] data=null;
    String base = URIUtil.addPaths(request.getRequestURI(),URIUtil.SLASH);

    //If the DefaultServlet has a resource base set, use it
    if (_resourceBase != null)
    {
        // handle ResourceCollection
        if (_resourceBase instanceof ResourceCollection)
            resource=_resourceBase.addPath(pathInContext);
    }
    //Otherwise, try using the resource base of its enclosing context handler
    else if (_contextHandler.getBaseResource() instanceof ResourceCollection)
        resource=_contextHandler.getBaseResource().addPath(pathInContext);

    String dir = resource.getListHTML(base,pathInContext.length(>1);
    if (dir==null)
    {
        response.sendError(HttpServletResponse.SC_FORBIDDEN,
            "No directory");
    }
}

```

```

        return;
    }

    data=dir.getBytes("UTF-8");
    response.setContentType("text/html; charset=UTF-8");
    response.setContentLength(data.length);
    response.getOutputStream().write(data);
}

/* ----- */
protected void sendData(HttpServletRequest request,
    HttpServletResponse response,
    boolean include,
    Resource resource,
    HttpContent content,
    Enumeration reqRanges)
throws IOException
{
    boolean direct;
    long content_length;
    if (content==null)
    {
        direct=false;
        content_length=resource.length();
    }
    else
    {
        Connector connector = AbstractHttpConnection.getCurrentConnection().getConnector();
        direct=connector instanceof NIOConnector && ((NIOConnector)connector).getUseDirectBuffers() &&
!(connector instanceof SslConnector);
        content_length=content.getContentLength();
    }

    // Get the output stream (or writer)
    OutputStream out =null;
    boolean written;
    try
    {
        out = response.getOutputStream();

        // has a filter already written to the response?
        written = out instanceof HttpOutput
            ? ((HttpOutput)out).isWritten()
            : AbstractHttpConnection.getCurrentConnection().getGenerator().isWritten();
    }
    catch(IllegalStateException e)
    {

```

```

    out = new WriterOutputStream(response.getWriter());
    written=true; // there may be data in writer buffer, so assume written
}

if ( reqRanges == null || !reqRanges.hasMoreElements() || content_length<0)
{
    // if there were no ranges, send entire entity
    if (include)
    {
        resource.writeTo(out,0,content_length);
    }
    else
    {
        // See if a direct methods can be used?
        if (content!=null && !written && out instanceof HttpOutput)
        {
            if (response instanceof Response)
            {
                writeOptionHeaders(((Response)response).getHttpFields());
                ((AbstractHttpConnection.Output)out).sendContent(content);
            }
            else
            {
                Buffer buffer = direct?content.getDirectBuffer():content.getIndirectBuffer();
                if (buffer!=null)
                {
                    writeHeaders(response,content,content_length);
                    ((AbstractHttpConnection.Output)out).sendContent(buffer);
                }
                else
                {
                    writeHeaders(response,content,content_length);
                    resource.writeTo(out,0,content_length);
                }
            }
        }
        else
        {
            // Write headers normally
            writeHeaders(response,content,written?-1:content_length);

            // Write content normally
            Buffer buffer = (content==null)?null:content.getIndirectBuffer();
            if (buffer!=null)
                buffer.writeTo(out);
            else
                resource.writeTo(out,0,content_length);
        }
    }
}

```

```

    }
}
else
{
    // Parse the satisfiable ranges
    List ranges =InclusiveByteRange.satisfiableRanges(reqRanges,content_length);

    // if there are no satisfiable ranges, send 416 response
    if (ranges==null || ranges.size()==0)
    {
        writeHeaders(response, content, content_length);
        response.setStatus(HttpServletResponse.SC_REQUESTED_RANGE_NOT_SATISFIABLE);
        response.setHeader(HttpHeaders.CONTENT_RANGE,
            InclusiveByteRange.to416HeaderRangeString(content_length));
        resource.writeTo(out,0,content_length);
        return;
    }

    // if there is only a single valid range (must be satisfiable
    // since were here now), send that range with a 216 response
    if ( ranges.size()== 1)
    {
        InclusiveByteRange singleSatisfiableRange =
            (InclusiveByteRange)ranges.get(0);
        long singleLength = singleSatisfiableRange.getSize(content_length);
        writeHeaders(response,content,singleLength
            );
        response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);
        response.setHeader(HttpHeaders.CONTENT_RANGE,
            singleSatisfiableRange.toHeaderRangeString(content_length));
        resource.writeTo(out,singleSatisfiableRange.getFirst(content_length),singleLength);
        return;
    }

    // multiple non-overlapping valid ranges cause a multipart
    // 216 response which does not require an overall
    // content-length header
    //
    writeHeaders(response,content,-1);
    String mimetype=content.getContentType().toString();
    MultiPartOutputStream multi = new MultiPartOutputStream(out);
    response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);

    // If the request has a "Request-Range" header then we need to
    // send an old style multipart/x-byteranges Content-Type. This
    // keeps Netscape and acrobat happy. This is what Apache does.
    String ctp;
    if (request.getHeader(HttpHeaders.REQUEST_RANGE)!=null)
        ctp = "multipart/x-byteranges; boundary=";

```

```

else
    ctp = "multipart/byteranges; boundary=";
response.setContentType(ctp+multi.getBoundary());

InputStream in=resource.getInputStream();
long pos=0;

// calculate the content-length
int length=0;
String[] header = new String[ranges.size()];
for (int i=0;i<ranges.size();i++)
{
    InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
    header[i]=ibr.toHeaderRangeString(content_length);
    length+=
        ((i>0)?2:0)+
        2+multi.getBoundary().length()+2+
        HttpHeaders.CONTENT_TYPE.length()+2+mimetype.length()+2+
        HttpHeaders.CONTENT_RANGE.length()+2+header[i].length()+2+
        2+
        (ibr.getLast(content_length)-ibr.getFirst(content_length))+1;
}
length+=2+2+multi.getBoundary().length()+2+2;
response.setContentLength(length);

for (int i=0;i<ranges.size();i++)
{
    InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
    multi.startPart(mimetype,new String[]{HttpHeaders.CONTENT_RANGE+": "+header[i]});

    long start=ibr.getFirst(content_length);
    long size=ibr.getSize(content_length);
    if (in!=null)
    {
        // Handle non cached resource
        if (start<pos)
        {
            in.close();
            in=resource.getInputStream();
            pos=0;
        }
        if (pos<start)
        {
            in.skip(start-pos);
            pos=start;
        }
        IO.copy(in,multi,size);
        pos+=size;
    }
}

```



```

    }
    else
        // Handle cached resource
        (resource).writeTo(multi,start,size);

    }
    if (in!=null)
        in.close();
    multi.close();
}
return;
}

/* ----- */
protected void writeHeaders(HttpServletRequest response,HttpContent content,long count)
throws IOException
{
    if (content.getContentType()!=null && response.getContentType()==null)
        response.setContentType(content.getContentType().toString());

    if (response instanceof Response)
    {
        Response r=(Response)response;
        HttpFields fields = r.getHttpFields();

        if (content.getLastModified()!=null)
            fields.put(HttpHeaders.LAST_MODIFIED_BUFFER,content.getLastModified());
        else if (content.getResource()!=null)
        {
            long lml=content.getResource().lastModified();
            if (lml!=-1)
                fields.putDateField(HttpHeaders.LAST_MODIFIED_BUFFER,lml);
        }

        if (count != -1)
            r.setLongContentLength(count);

        writeOptionHeaders(fields);
    }
    else
    {
        long lml=content.getResource().lastModified();
        if (lml>=0)
            response.setDateHeader(HttpHeaders.LAST_MODIFIED,lml);

        if (count != -1)
        {
            if (count<Integer.MAX_VALUE)

```

```

        response.setContentLength((int)count);
    else
        response.setHeader(HttpHeaders.CONTENT_LENGTH,Long.toString(count));
    }

    writeOptionHeaders(response);
}
}

/* ----- */
protected void writeOptionHeaders(HttpFields fields) throws IOException
{
    if (_acceptRanges)
        fields.put(HttpHeaders.ACCEPT_RANGES_BUFFER,HttpHeaderValues.BYTES_BUFFER);

    if (_cacheControl!=null)
        fields.put(HttpHeaders.CACHE_CONTROL_BUFFER,_cacheControl);
}

/* ----- */
protected void writeOptionHeaders(HttpServletResponse response) throws IOException
{
    if (_acceptRanges)
        response.setHeader(HttpHeaders.ACCEPT_RANGES,"bytes");

    if (_cacheControl!=null)
        response.setHeader(HttpHeaders.CACHE_CONTROL,_cacheControl.toString());
}

/* ----- */
/*
 * @see javax.servlet.Servlet#destroy()
 */
@Override
public void destroy()
{
    if (_cache!=null)
        _cache.flushCache();
    super.destroy();
}
}
}

```

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19 May, 2009

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<div id="contentSub"></div>
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</div>
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<div>The WTFPL logo</div>
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</tr>
<tr>
<th scope="row" style="width:45%;">Author</th>
<td style="width:55%;">Banlu Kemiyaorn, <a href="/wiki/Sam_Hocevar" title="Sam Hocevar">Sam
Hocevar</a></td>
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| | |
|--|--|
| | Published |
| | 2004 |
| | |
| FSF approved | Yes |
| | |
| OSI approved | No |
| | |
| GPL compatible | Yes |
| | |
| Copyleft | No |
| | |
| Linking from code with a different license | Yes |
| | |
| Website | www.wtfpl.net |

The **WTFPL** (**Do What the Fuck You Want To Public License**) is a [permissive license](/wiki/Permissive_license "Permissive license") most commonly used as a [free software license](/wiki/Free_software_license "Free software license"). As a [public domain like license](/wiki/Public_domain_like_license "Public domain like license"), the WTFPL is essentially the same as dedication to the [public domain](/wiki/Public_domain "Public domain").^[1] It allows redistribution and modification of the software under any terms. As of May 2016^[update], the WTFPL was used by less than one percent of [open-source software](/wiki/Open-source_software "Open-source software") projects.

The first version of the WTFPL, released in March 2000, was written by Banlu Kemiyatorn for his own software

project.^{[\[2\]](#)} Sam Hocevar, [Debian](#)'s former project leader, wrote version 2.^{[\[3\]](#)}

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Characteristics [[edit](#)]

The WTFPL intends to be a [Permissive license](#), public-domain-like license. The license is not a [Copyleft](#) license.^{[\[4\]](#)} The license differs from public domain in that an author can use it even if they do not necessarily have the ability to place their work in the public domain according to their local laws.^{[\[5\]](#)}

The WTFPL does not include a no-warranty disclaimer,¹ unlike other [permissive licenses](/wiki/Permissive_license), such as the [MIT License](/wiki/MIT_License).⁶ Though the WTFPL is untested in court,² the official website offers a disclaimer to be used in software [source code](/wiki/Source_code).³

Terms

[Edit section: Terms](/w/index.php?title=WTFPL&action=edit§ion=2)

Version 1

[Edit section: Version 1](/w/index.php?title=WTFPL&action=edit§ion=3)

```
<pre>
```

```
<span lang="en">do What The Fuck you want to Public License
```

Version 1.0, March 2000

Copyright (C) 2000 Banlu Kemiyatorn (Jd).

136 Nives 7 Jangwattana 14 Laksi Bangkok

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Ok, the purpose of this license is simple and you just

DO WHAT THE FUCK YOU WANT TO.

```
</span>
```

```
</pre>
```

Version 2

[Edit section: Version 2](/w/index.php?title=WTFPL&action=edit§ion=4)

The text of the license, written by Sam Hocevar:¹[\[3\]](#cite_note-Hocevar.2C_WTFPL.2C_2.0_3-1)

```
<pre>
```

```
<span lang="en"> DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE
```

```
Version 2, December 2004
```

Copyright (C) 2004 Sam Hocevar <sam@hocevar.net>

Everyone is permitted to copy and distribute verbatim or modified copies of this license document, and changing it is allowed as long as the name is changed.

DO WHAT THE FUCK YOU WANT TO PUBLIC LICENSE
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. You just DO WHAT THE FUCK YOU WANT TO.

```

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<h3><span class="mw-headline" id="Usage">Usage</span><span class="mw-editsection"><span class="mw-
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section: Usage">edit</a><span class="mw-editsection-bracket">]</span></span></h3>
<p>The WTFPL is not in wide use among <a href="/wiki/Open-source_software" title="Open-source
software">open-source software</a> projects; according to Black Duck Software, the WTFPL is used by less than
one percent of open-source projects.<sup id="cite_ref-7" class="reference"><a href="#cite_note-7">[7]</a></sup>
Examples include the <a href="/wiki/OpenStreetMap" title="OpenStreetMap">OpenStreetMap</a> <a
href="/wiki/Potlatch_(software)" title="Potlatch (software)">Potlatch</a> online editor,<sup id="cite_ref-8"
class="reference"><a href="#cite_note-8">[8]</a></sup> the <a href="/wiki/Video_game" title="Video
game">video game</a> <a href="/wiki/Liero" title="Liero">Liero</a> (version 1.36),<sup id="cite_ref-9"
class="reference"><a href="#cite_note-9">[9]</a></sup> and <a href="/wiki/MediaWiki"
title="MediaWiki">MediaWiki</a> extensions.<sup id="cite_ref-10" class="reference"><a href="#cite_note-
10">[10]</a></sup> Some <a href="/wiki/Wikimedia_Commons" title="Wikimedia Commons">Wikimedia
Commons</a> files were published under the terms of the WTFPL.<sup id="cite_ref-11" class="reference"><a
href="#cite_note-11">[11]</a></sup></p>
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title="Edit section: Discussion">edit</a><span class="mw-editsection-bracket">]</span></span></h3>
<p>The license was confirmed as a <a href="/wiki/GNU_General_Public_License" title="GNU General Public
License">GPL</a>-<a href="/wiki/License_compatibility" title="License compatibility">compatible</a> free
software license by the <a href="/wiki/Free_Software_Foundation" title="Free Software Foundation">Free Software
Foundation</a>, but its use is "not recommended".<sup id="cite_ref-fsf_12-0" class="reference"><a
href="#cite_note-fsf-12">[12]</a></sup> In 2009, the <a href="/wiki/Open_Source_Initiative" title="Open Source
Initiative">Open Source Initiative</a> chose not to approve the license as an <a href="/wiki/Open-source_license"
title="Open-source license">open-source license</a>, saying:<sup id="cite_ref-osi_1-1" class="reference"><a
href="#cite_note-osi-1">[1]</a></sup></p>
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<p>It's no different from dedication to the public domain. Author has submitted license approval request – author is
free to make public domain dedication. Although he agrees with the recommendation, Mr. Michlmayr notes that
public domain doesn't exist in Europe. Recommend: Reject.</p>
</blockquote>
<p>The WTFPL version 2 is an accepted <a href="/wiki/Copyfree" class="mw-redirect"
title="Copyfree">Copyfree</a> license.<sup id="cite_ref-copyfree_13-0" class="reference"><a href="#cite_note-
copyfree-13">[13]</a></sup> It is also accepted by <a href="/wiki/Fedora_(operating_system)" title="Fedora
(operating system)">Fedora</a> as a free license and GPL-compatible.<sup id="cite_ref-14" class="reference"><a
href="#cite_note-14">[14]</a></sup></p>
<p>Some software authors have said that the license is not very serious;<sup id="cite_ref-15" class="reference"><a
href="#cite_note-15">[15]</a></sup> <a href="/wiki/Fork_(software)" class="mw-redirect" title="Fork
(software)">forks</a> have tried to address wording ambiguity and liability concerns.<sup id="cite_ref-16"
class="reference"><a href="#cite_note-16">[16]</a></sup><sup id="cite_ref-17" class="reference"><a
href="#cite_note-17">[17]</a></sup> OSI founding president <a href="/wiki/Eric_S._Raymond" title="Eric S.
Raymond">Eric S. Raymond</a> interpreted the license as written satire against the restrictions of the GPL and
other software licenses;<sup id="cite_ref-18" class="reference"><a href="#cite_note-18">[18]</a></sup> WTFPL

```

version 2 author [Sam Hocevar](/wiki/Sam_Hocevar "Sam Hocevar") later confirmed that the WTFPL is a parody of the GPL.^[19] Free-culture activist [Nina Paley](/wiki/Nina_Paley "Nina Paley") said she considered the WTFPL a free license for cultural works.^[20]

See also

- [Beerware](/wiki/Beerware "Beerware")
- [CC0](/wiki/CC0 "CC0")
- [License-free software](/wiki/License-free_software "License-free software")
- [Public domain software](/wiki/Public_domain_software "Public domain software")
- [Software using the WTFPL \(category\)](/wiki/Category:Software_using_the_WTFPL_license "Category:Software using the WTFPL license")

References

- ¹^ OSI Board Meeting Minutes, Wednesday, March 4, 2009. Open Source Initiative. 2009-03-04 Retrieved 2013-04-03. <[...] the following licenses to be discussed and approved/disapproved by the Board. [...] WTFPL Submission: [...] Comments: It's no different from dedication to the public domain. Author has submitted license approval request -- author is free to make public domain dedication. Although he agrees with the recommendation, Mr. Michlmayr notes that public domain doesn't exist in Europe. Recommend: Reject
- FAQ. [Sam Hocevar](/wiki/Sam_Hocevar "Sam Hocevar") (2012-12-27). <Frequently Asked Questions>. WTFPL – Do What the Fuck You Want to Public License Retrieved 2016-07-19. <span title="ctx_ver=Z39.88-2004&rft_id=info%3Asid%2Fen.wikipedia.org%3AWTFPL&rft.au=Sam+Hocevar&rft.btitle=Frequently+Asked+Questions&rft.date=2012-12-

27&#amp;rft.genre=unknown&#amp;rft_id=http%3A%2F%2Fwww.wtfpl.net%2Ffaq%2F&#amp;rft.pub=WTFPL+%93+Do+What+the+Fuck+You+Want+to+Public+License&#amp;rft_val_fmt=info%3Aofi%2Ffmt%3Akev%3Amtx%3Abook" class="Z3988">#160;

<li id="cite_note-Hocevar.2C_WTFPL.2C_2.0-3">^ ^{<i>a</i>} ^{<i>b</i>} <cite class="citation web">Sam Hocevar (2012-12-26). "WTFPL version 2". Retrieved 2016-07-19</cite>#160;

<li id="cite_note-4">^ <cite class="citation web">"Various Licenses and Comments about Them". <i>GNU Operating System</i>. Free Software Foundation. Retrieved 2016-07-10. <q>This is a lax permissive non-copyleft free software license, compatible with the GNU GPL. <i>[emphasis added]</i></q></cite>#160;

<li id="cite_note-CC0-5">^ <cite class="citation web">Kreutzer, Till. "Validity of the Creative Commons Zero 1.0 Universal Public Domain Dedication and its usability for bibliographic metadata from the perspective of German Copyright Law" (PDF). Büro für informationsrechtliche Expertise.</cite>#160;

<li id="cite_note-6">^ <cite class="citation web">"The MIT License". <i>Open Source Initiative</i>.</cite>#160;

<li id="cite_note-7">^ <cite class="citation web">"Various Licenses and Comments about Them". <i>GNU Operating System</i>. Free Software Foundation. Retrieved 2016-07-10. <q>This is a lax permissive non-copyleft free software license, compatible with the GNU GPL. <i>[emphasis added]</i></q></cite>#160;

class="reference-text"><cite class="citation web">"Top Open Source Licenses". Black Duck Software. Archived from the original on 2016-05-10.</cite>

<li id="cite_note-8">^ <cite class="citation web">"LICENCE.txt". <i>Potlatch 2</i>. GitHub. December 2004. Retrieved 2012-01-16</cite>

<li id="cite_note-9">^ <cite class="citation web">"license.txt". <i>Liero official website</i>. 2013-09-03. Retrieved 2016-07-12. <q>The original Liero data and binary files are copyright 1998 Joosa Riekkinen
They are, unless otherwise stated, available under the WTFPL license:
http://sam.zoy.org/wtfpl/</q></cite>

<li id="cite_note-10">^ <cite class="citation web">"Category:WTFPL licensed extensions". MediaWikiWiki. 2016. Retrieved 2016-07-19</cite>

<li id="cite_note-11">^ <cite class="citation web">"Category:WTFPL". Wikimedia Commons. 2016. Retrieved 2016-07-19</cite><span title="ctx_ver=Z39.88-2004&rft_id=info%3Asid%2Fen.wikipedia.org%3AWTFPL&rft.btitle=Category%3AWTFPL&rft.d

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<li id="cite_note-fsf-12">^<cite class="citation web">"Licenses - Free Software Foundation". Free Software Foundation.</cite>

<li id="cite_note-copyfree-13">^<cite class="citation web">"Copyfree Licenses". <i>Copyfree</i>. The Copyfree Initiative.</cite>

<li id="cite_note-14">^<cite class="citation web">Callaway, Tom (2016-05-17). "Licensing:Main". <i>Fedora Project Wiki</i>. Retrieved 2016-07-10

2004&rft_id=info%3Asid%2Fen.wikipedia.org%3AWTFPL&rft.atitle=Licensing%3AMain&rft.aufirst=Tom&rft.aulast=Callaway&rft.date=2016-05-17&rft.genre=unknown&rft_id=https%3A%2F%2Ffedoraproject.org%2Fwiki%2FLicensing%3AMain%3Frd%3DLicensing&rft.jtitle=Fedora+Project+Wiki&rft_val_fmt=info%3Aofi%2Ffmt%3Akev%3Amtx%3Ajournal" class="Z3988">

<li id="cite_note-15">^<cite class="citation web">Suder, Kuba (2011-01-15). "On Open Source licensing". <i>Apples & Rubies</i> (Blog). <q>There are at least two not very serious licenses which have essentially the same meaning as public domain. I'm talking about the Beerware license and WTFPL ('Do What The Fuck You Want To' license). I really like these because they pretty well represent my opinion about the legalese bullshit that most licenses are so full of.</q></cite>

<li id="cite_note-16">^<cite class="citation web">theiostream (2012-03-24). "Introducing WTFPL v3" (Blog). tumblr. Retrieved 2016-07-19

2004&rfid=info%3Asid%2Fen.wikipedia.org%3AWTFPL&rfatitle=Introducing+WTFPL+v3&rftdate=2012-03-24&rftgenre=unknown&rftid=http%3A%2F%2Ftheiostream.tumblr.com%2Fpost%2F19850980363%2Fintroducing-wtfpl-v3&rftpub=tumblr&rftvalfmt=info%3Aofi%2Ffmt%3Akev%3Amtx%3Abook" class="Z3988">#160;

<li id="cite_note-17">^ <cite class="citation web">Ben McGinnes (2013-10-01). "Do What The Fuck You Want To But It's Not My Fault Public License v1 (WTFNMFPL-1.0)". <i>tl;drLegal</i>. Retrieved 2016-07-19. <q>... with a CYA clause ...</q></cite>#160;

<li id="cite_note-18">^ <cite class="citation web">Eric S. Raymond (2010-05-19). "Software licenses as conversation" (Blog). esr.iblio.org. Retrieved 2016-07-19. <q>It's even clearer that the Do What the Fuck You Want To Public License is a satire. The author is one of those who thinks the Free Software Foundation has traduced the word 'free' by hedging the GNU General Public License about with restrictions and boobytraps in the name of 'freedom' – and he's got an issue or two with BSD as well. He is poking fun at both camps, not gently at all. His page about the WTFPL is funny-because-it's-true hilarious, and I admit that I feel a sneaking temptation to start using it myself.</q></cite>#160;

<li id="cite_note-19">^ <cite class="citation web">Sam Hocevar (2015-09-21). "Should I change the name of the WTFPL?". <i>Programmers Stack Exchange</i> (User comment). Retrieved 2016-07-19. <q>The WTFPL is a parody of the GPL, which has a similar copyright header and list of permissions to modify (i.e. none), see for instance gnu.org/licenses/gpl-3.0.en.html. The purpose of the WTFPL wording is to give more freedom than the GPL does.</q></cite>#160;

2Ffmt%3Akev%3Amtx%3Ajournal" class="Z3988">

<li id="cite_note-20">^ <cite class="citation web">Nina Paley (2011-06-24). "How To Free Your Work". <i>QuestionCopyright.org</i>. Retrieved 2016-07-19.</cite>

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<h2>External links[edit]</h2>

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Official website

| | | | --- | --- | | | | | | | | | | | | | | | | | |

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<li><a href="/wiki/List_of_free_software_project_directories" title="List of free software project directories">Free
software project directories</a></li>
<li><a href="/wiki/Gratis_versus_libre" title="Gratis versus libre">Gratis versus libre</a></li>
<li><a href="/wiki/Long-term_support" title="Long-term support">Long-term support</a></li>
<li><a href="/wiki/Open-source_software" title="Open-source software">Open-source software</a></li>
<li><a href="/wiki/Open-source_software_development" title="Open-source software development">Open-source
software development</a></li>
<li><a href="/wiki/Outline_of_free_software" title="Outline of free software">Outline</a></li>
</ul>
</div>
</td>
</tr>
<tr style="height:2px">
<td colspan="2"></td>
</tr>
<tr>
<th scope="row" class="navbox-group"><a href="/wiki/List_of_free_and_open-source_software_packages"
title="List of free and open-source software packages">Software<br />
packages</a></th>
<td class="navbox-list navbox-even" style="text-align:left;border-left-width:2px;border-left-
style:solid;width:100%;padding:0px">
<div style="padding:0em 0.25em">
<ul>
<li><a href="/wiki/Comparison_of_free_software_for_audio" title="Comparison of free software for
audio">Audio</a></li>

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- Bioinformatics
- Codecs
- Collaboration
- Configuration management
- Device drivers
-
- Graphics
- Wireless
-
-
- Geophysics
- Health
- Mathematics
- Operating systems
- Programming languages
- Routing
- Statistics
- Television
- Video games
- Web applications
-
- Content management systems
- E-commerce
-
-
- Word processors
- Android apps
- iOS apps
- <a href="/wiki/List_of_commercial_open-source_applications_and_services" title="List of commercial open-

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source applications and services">Commercial</a></li>
<li><a href="/wiki/List_of_trademarked_open-source_software" title="List of trademarked open-source
software">Trademarked</a></li>
<li><a href="/wiki/List_of_formerly_proprietary_software" title="List of formerly proprietary software">Formerly
proprietary</a></li>
</ul>
</div>
</td>
</tr>
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</tr>
<tr>
<th scope="row" class="navbox-group">Community</th>
<td class="navbox-list navbox-odd" style="text-align:left;border-left-width:2px;border-left-
style:solid;width:100%;padding:0px">
<div style="padding:0em 0.25em">
<ul>
<li><a href="/wiki/Free_software_movement" title="Free software movement">Free software movement</a></li>
<li><a href="/wiki/History_of_free_and_open-source_software" title="History of free and open-source
software">History</a></li>
<li><a href="/wiki/Open-source_software_movement" title="Open-source software movement">Open-source
software movement</a></li>
<li><a href="/wiki/List_of_free_and_open-source_software_organizations" title="List of free and open-source
software organizations">Organizations</a></li>
<li><a href="/wiki/List_of_free-software_events" title="List of free-software events">Events</a></li>
</ul>
</div>
</td>
</tr>
<tr style="height:2px">
<td colspan="2"></td>
</tr>
<tr>
<th scope="row" class="navbox-group"><a href="/wiki/Free_software_license" title="Free software
license">Licenses</a></th>
<td class="navbox-list navbox-even" style="text-align:left;border-left-width:2px;border-left-
style:solid;width:100%;padding:0px">
<div style="padding:0em 0.25em">
<ul>
<li><a href="/wiki/Apache_License" title="Apache License">Apache</a></li>
<li><a href="/wiki/Apple_Public_Source_License" title="Apple Public Source License">APSL</a></li>
<li><a href="/wiki/Artistic_License" title="Artistic License">Artistic</a></li>
<li><a href="/wiki/Beerware" title="Beerware">Beerware</a></li>
<li><a href="/wiki/Boost_Software_License" class="mw-redirect" title="Boost Software License">Boost</a></li>
<li><a href="/wiki/BSD_licenses" title="BSD licenses">BSD</a></li>
<li><a href="/wiki/CC0" class="mw-redirect" title="CC0">CC0</a></li>
<li><a href="/wiki/Common_Development_and_Distribution_License" title="Common Development and

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Distribution License">CDDL</a></li>
<li><a href="/wiki/Eclipse_Public_License" title="Eclipse Public License">EPL</a></li>
<li><a href="/wiki/GNU_General_Public_License" title="GNU General Public License">GNU GPL</a></li>
<li><a href="/wiki/GNU_Lesser_General_Public_License" title="GNU Lesser General Public License">GNU
  LGPL</a></li>
<li><a href="/wiki/ISC_license" title="ISC license">ISC</a></li>
<li><a href="/wiki/MIT_License" title="MIT License">MIT</a></li>
<li><a href="/wiki/Mozilla_Public_License" title="Mozilla Public License">MPL</a></li>
<li><a href="/wiki/Shared_source#Open_Source_licenses" title="Shared source">Ms-PL/RL</a></li>
<li><strong class="selflink">WTFPL</strong></li>
<li><a href="/wiki/Zlib_License" title="Zlib License">zlib</a></li>
</ul>
</div>
</td>
</tr>
<tr style="height:2px">
<td colspan="2"></td>
</tr>
<tr>
<th scope="row" class="navbox-group">License types<br />
and standards</th>
<td class="navbox-list navbox-odd" style="text-align:left;border-left-width:2px;border-left-
style:solid;width:100%;padding:0px">
<div style="padding:0em 0.25em">
<ul>
<li><a href="/wiki/Comparison_of_free_and_open-source_software_licenses" title="Comparison of free and open-
source software licenses">Comparison of free and open-source software licenses</a></li>
<li><a href="/wiki/Contributor_License_Agreement" title="Contributor License Agreement">Contributor License
  Agreement</a></li>
<li><a href="/wiki/Copyfree" class="mw-redirect" title="Copyfree">Copyfree</a></li>
<li><a href="/wiki/Copyleft" title="Copyleft">Copyleft</a></li>
<li><a href="/wiki/Debian_Free_Software_Guidelines" title="Debian Free Software Guidelines">Debian Free
  Software Guidelines</a></li>
<li><a href="/wiki/Definition_of_Free_Cultural_Works" title="Definition of Free Cultural Works">Definition of
  Free Cultural Works</a></li>
<li><a href="/wiki/Free_license" title="Free license">Free license</a></li>
<li><a href="/wiki/The_Free_Software_Definition" title="The Free Software Definition">The Free Software
  Definition</a></li>
<li><a href="/wiki/The_Open_Source_Definition" title="The Open Source Definition">The Open Source
  Definition</a></li>
<li><a href="/wiki/Open-source_license" title="Open-source license">Open-source license</a></li>
<li><a href="/wiki/Permissive_free_software_licence" class="mw-redirect" title="Permissive free software
  licence">Permissive free software licence</a></li>
<li><a href="/wiki/Public_domain" title="Public domain">Public domain</a></li>
<li><a href="/wiki/Viral_license" title="Viral license">Viral license</a></li>
</ul>
</div>
</td>

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</tr>
<tr style="height:2px">
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<tr>
<th scope="row" class="navbox-group">Challenges</th>
<td class="navbox-list navbox-even" style="text-align:left;border-left-width:2px;border-left-
style:solid;width:100%;padding:0px">
<div style="padding:0em 0.25em">
<ul>
<li><a href="/wiki/Binary_blob" title="Binary blob">Binary blob</a></li>
<li><a href="/wiki/Digital_rights_management" title="Digital rights management">Digital rights
management</a></li>
<li><a href="/wiki/Hardware_restriction" title="Hardware restriction">Hardware restrictions</a></li>
<li><a href="/wiki/License_proliferation" title="License proliferation">License proliferation</a></li>
<li><a href="/wiki/Mozilla_Corporation_software_rebranded_by_the_Debian_project" class="mw-redirect"
title="Mozilla Corporation software rebranded by the Debian project">Mozilla software rebranding</a></li>
<li><a href="/wiki/Proprietary_software" title="Proprietary software">Proprietary software</a></li>
<li><a href="/wiki/SCO/Linux_controversies" title="SCO/Linux controversies">SCO/Linux controversies</a></li>
<li><a href="/wiki/UEFI_Secure_Boot#Secure_boot" class="mw-redirect" title="UEFI Secure Boot">Secure
boot</a></li>
<li><a href="/wiki/Software_patents_and_free_software" title="Software patents and free software">Software
patents</a></li>
<li><a href="/wiki/Open-source_software_security" title="Open-source software security">Software
security</a></li>
<li><a href="/wiki/Trusted_Computing" title="Trusted Computing">Trusted Computing</a></li>
</ul>
</div>
</td>
</tr>
<tr style="height:2px">
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<tr>
<th scope="row" class="navbox-group">Related topics</th>
<td class="navbox-list navbox-odd" style="text-align:left;border-left-width:2px;border-left-
style:solid;width:100%;padding:0px">
<div style="padding:0em 0.25em">
<ul>
<li><i><a href="/wiki/The_Cathedral_and_the_Bazaar" title="The Cathedral and the Bazaar">The Cathedral and
the Bazaar</a></i></li>
<li><a href="/wiki/Fork_(software_development)" title="Fork (software development)">Forking</a></li>
<li><a href="/wiki/Microsoft_Open_Specification_Promise" title="Microsoft Open Specification
Promise">Microsoft Open Specification Promise</a></li>
<li><i><a href="/wiki/Revolution_OS" title="Revolution OS">Revolution OS</a></i></li>
</ul>
</div>
</td>

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</tr>
<tr style="height:2px">
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</tr>
<tr>
<td class="navbox-abovebelow" colspan="2" style="font-weight:bold">
<div>
<ul>
<li> <a
href="/wiki/Book:Free_and_Open_Source_Software" title="Book:Free and Open Source Software">Book</a></li>
<li> <a
href="/wiki/Category:Free_software" title="Category:Free software">Category</a></li>
<li> <a href="https://commons.wikimedia.org/wiki/Category:Free_software"
class="extiw" title="commons:Category:Free software">Commons</a></li>
<li> <a href="/wiki/Portal:Free_software" class="mw-redirect" title="Portal:Free
software">Portal</a></li>
</ul>
</div>
</td>
</tr>
</table>
</div>

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<!--
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NewPP limit report

Parsed by mw1187

Cached time: 20170329020925

Cache expiry: 2592000

Dynamic content: false
CPU time usage: 0.252 seconds
Real time usage: 0.313 seconds
Preprocessor visited node count: 1442/1000000
Preprocessor generated node count: 0/1500000
Postexpand include size: 62586/2097152 bytes
Template argument size: 1968/2097152 bytes
Highest expansion depth: 19/40
Expensive parser function count: 2/500
Lua time usage: 0.111/10.000 seconds
Lua memory usage: 3.77 MB/50 MB

-->

<!--

Transclusion expansion time report (% ,ms,calls,template)

| | | | |
|---------|---------|----|-----------------------------------|
| 100.00% | 264.661 | 1 | -total |
| 45.93% | 121.546 | 1 | Template:Reflist |
| 35.69% | 94.445 | 20 | Template:Cite_web |
| 13.36% | 35.371 | 1 | Template:Infobox_software_license |
| 12.50% | 33.089 | 1 | Template:Infobox |
| 9.25% | 24.469 | 1 | Template:Commons_category |
| 8.32% | 22.032 | 2 | Template:Lang |
| 7.28% | 19.271 | 2 | Template:Category_handler |
| 6.90% | 18.264 | 1 | Template:FOSS |
| 6.32% | 16.727 | 1 | Template:As_of |

-->

<!-- Saved in parser cache with key enwiki:pcache:idhash:6122939-0!*!0!!en!4!* and timestamp 20170329020925 and revision id 771884199

-->

<noscript></noscript></div> <div class="printfooter">
Retrieved from "<a dir="ltr"
href="https://en.wikipedia.org/w/index.php?title=WTFPL&oldid=771884199">https://en.wikipedia.org/w/index.php?title=WTFPL&oldid=771884199" </div>
<div id="catlinks" class="catlinks" data-mw="interface"><div id="mw-normal-catlinks" class="mw-normal-catlinks">Categories: Free and open-source software licensesFree content licensesPublic copyright licenses</div><div id="mw-hidden-catlinks" class="mw-hidden-catlinks mw-hidden-cats-hidden">Hidden categories: Pages using deprecated image syntaxArticles containing potentially dated statements from May 2016All articles containing potentially dated statementsArticles containing explicitly cited English-language text</div>

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title="Category:Articles containing explicitly cited English-language text">Articles containing explicitly cited
English-language text</a></li></ul></div></div> <div class="visualClear"></div>
</div>
</div>
<div id="mw-navigation">
<h2>Navigation menu</h2>

<div id="mw-head">
<div id="p-personal" role="navigation" class="" aria-labelledby="p-personal-label">
<h3 id="p-personal-label">Personal tools</h3>
<ul>
<li id="pt-anonuserpage">Not logged in</li><li id="pt-anontalk"><a href="/wiki/Special:MyTalk"
title="Discussion about edits from this IP address [n]" accesskey="n">Talk</a></li><li id="pt-anoncontribs"><a
href="/wiki/Special:MyContributions" title="A list of edits made from this IP address [y]"
accesskey="y">Contributions</a></li><li id="pt-createaccount"><a
href="/w/index.php?title=Special:CreateAccount&amp;returnto=WTFPL" title="You are encouraged to create an
account and log in; however, it is not mandatory">Create account</a></li><li id="pt-login"><a
href="/w/index.php?title=Special:UserLogin&amp;returnto=WTFPL" title="You're encouraged to log in; however,
it's not mandatory. [o]" accesskey="o">Log in</a></li> </ul>
</div>
<div id="left-navigation">
<div id="p-namespaces" role="navigation" class="vectorTabs" aria-labelledby="p-namespaces-label">
<h3 id="p-namespaces-label">Namespaces</h3>
<ul>
<li id="ca-nstab-main" class="selected"><span><a href="/wiki/WTFPL" title="View the content page [c]"
accesskey="c">Article</a></span></li>
<li id="ca-talk"><span><a href="/wiki/Talk:WTFPL" title="Discussion about the content page [t]" accesskey="t"
rel="discussion">Talk</a></span></li>
</ul>
</div>
<div id="p-variants" role="navigation" class="vectorMenu emptyPortlet" aria-labelledby="p-variants-label">
<h3 id="p-variants-label">
<span>Variants</span><a href="#"></a>
</h3>

<div class="menu">
<ul>
</ul>
</div>
</div>
</div>
<div id="right-navigation">
<div id="p-views" role="navigation" class="vectorTabs" aria-labelledby="p-views-label">
<h3 id="p-views-label">Views</h3>
<ul>
<li id="ca-view" class="selected"><span><a href="/wiki/WTFPL" >Read</a></span></li>
<li id="ca-edit"><span><a href="/w/index.php?title=WTFPL&amp;action=edit" title="Edit this page [e]"
accesskey="e">Edit</a></span></li>

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        <li id="ca-history" class="collapsible"><span><a href="/w/index.php?title=WTFPL&action=history"
title="Past revisions of this page [h]" accesskey="h">View history</a></span></li>
    </ul>
</div>
    <div id="p-cactions" role="navigation" class="vectorMenu emptyPortlet" aria-labelledby="p-cactions-label">
    <h3 id="p-cactions-label"><span>More</span><a href="#"></a></h3>

    <div class="menu">
    <ul>
    </ul>
    </div>
</div>
    <div id="p-search" role="search">
    <h3>
    <label for="searchInput">Search</label>
    </h3>

    <form action="/w/index.php" id="searchform">
    <div id="simpleSearch">
    <input type="search" name="search" placeholder="Search Wikipedia" title="Search Wikipedia [f]" accesskey="f"
id="searchInput"/><input type="hidden" value="Special:Search" name="title"/><input type="submit"
name="fulltext" value="Search" title="Search Wikipedia for this text" id="mw-searchButton" class="searchButton
mw-fallbackSearchButton"/><input type="submit" name="go" value="Go" title="Go to a page with this exact name
if it exists" id="searchButton" class="searchButton"/>    </div>
    </form>
    </div>
    </div>
</div>
<div id="mw-panel">
    <div id="p-logo" role="banner"><a class="mw-wiki-logo" href="/wiki/Main_Page" title="Visit the main
page"></a></div>
    <div class="portal" role="navigation" id='p-navigation' aria-labelledby='p-navigation-label'>
    <h3 id='p-navigation-label'>Navigation</h3>

    <div class="body">
    <ul>
    <li id="n-mainpage-description"><a href="/wiki/Main_Page" title="Visit the main page [z]" accesskey="z">Main
page</a></li><li id="n-contents"><a href="/wiki/Portal:Contents" title="Guides to browsing
Wikipedia">Contents</a></li><li id="n-featuredcontent"><a href="/wiki/Portal:Featured_content" title="Featured
content – the best of Wikipedia">Featured content</a></li><li id="n-currentevents"><a
href="/wiki/Portal:Current_events" title="Find background information on current events">Current
events</a></li><li id="n-randompage"><a href="/wiki/Special:Random" title="Load a random article [x]"
accesskey="x">Random article</a></li><li id="n-sitesupport"><a
href="https://donate.wikimedia.org/wiki/Special:FundraiserRedirector?utm_source=donate&utm_medium=side
bar&utm_campaign=C13_en.wikipedia.org&uselang=en" title="Support us">Donate to
Wikipedia</a></li><li id="n-shoplink"><a href="//shop.wikimedia.org" title="Visit the Wikipedia
store">Wikipedia store</a></li>    </ul>
    </div>

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</div>
<div class="portal" role="navigation" id='p-interaction' aria-labelledby='p-interaction-label'>
<h3 id='p-interaction-label'>Interaction</h3>

<div class="body">
  <ul>
    <li id="n-help"><a href="/wiki/Help:Contents" title="Guidance on how to use and edit
Wikipedia">Help</a></li><li id="n-abouthome"><a href="/wiki/Wikipedia:About" title="Find out about
Wikipedia">About Wikipedia</a></li><li id="n-portal"><a href="/wiki/Wikipedia:Community_portal"
title="About the project, what you can do, where to find things">Community portal</a></li><li id="n-
recentchanges"><a href="/wiki/Special:RecentChanges" title="A list of recent changes in the wiki [r]"
accesskey="r">Recent changes</a></li><li id="n-contactpage"><a
href="//en.wikipedia.org/wiki/Wikipedia:Contact_us" title="How to contact Wikipedia">Contact page</a></li>
</ul>
</div>
</div>
<div class="portal" role="navigation" id='p-tb' aria-labelledby='p-tb-label'>
<h3 id='p-tb-label'>Tools</h3>

<div class="body">
  <ul>
    <li id="t-whatlinkshere"><a href="/wiki/Special:WhatLinksHere/WTFPL" title="List of all English Wikipedia
pages containing links to this page [j]" accesskey="j">What links here</a></li><li id="t-recentchangeslinked"><a
href="/wiki/Special:RecentChangesLinked/WTFPL" rel="nofollow" title="Recent changes in pages linked from this
page [k]" accesskey="k">Related changes</a></li><li id="t-upload"><a
href="/wiki/Wikipedia:File_Upload_Wizard" title="Upload files [u]" accesskey="u">Upload file</a></li><li id="t-
specialpages"><a href="/wiki/Special:SpecialPages" title="A list of all special pages [q]" accesskey="q">Special
pages</a></li><li id="t-permalink"><a href="/w/index.php?title=WTFPL&oldid=771884199"
title="Permanent link to this revision of the page">Permanent link</a></li><li id="t-info"><a
href="/w/index.php?title=WTFPL&action=info" title="More information about this page">Page
information</a></li><li id="t-wikibase"><a href="https://www.wikidata.org/wiki/Q152481" title="Link to
connected data repository item [g]" accesskey="g">Wikidata item</a></li><li id="t-cite"><a
href="/w/index.php?title=Special:CiteThisPage&page=WTFPL&id=771884199" title="Information on
how to cite this page">Cite this page</a></li>
  </ul>
</div>
</div>
<div class="portal" role="navigation" id='p-coll-print_export' aria-labelledby='p-coll-print_export-label'>
<h3 id='p-coll-print_export-label'>Print/export</h3>

<div class="body">
  <ul>
    <li id="coll-create_a_book"><a
href="/w/index.php?title=Special:Book&bookcmd=book_creator&referer=WTFPL">Create a
book</a></li><li id="coll-download-as-rdf2latex"><a
href="/w/index.php?title=Special:Book&bookcmd=render_article&arttitle=WTFPL&returnto=WTF
PL&oldid=771884199&writer=rdf2latex">Download as PDF</a></li><li id="t-print"><a
href="/w/index.php?title=WTFPL&printable=yes" title="Printable version of this page [p]"
accesskey="p">Printable version</a></li>
  </ul>

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</div>
</div>
<div class="portal" role="navigation" id="p-wikibase-otherprojects" aria-labelledby="p-wikibase-otherprojects-label">
<h3 id="p-wikibase-otherprojects-label">In other projects</h3>

<div class="body">
  <ul>
    <li class="wb-otherproject-link wb-otherproject-commons"><a href="https://commons.wikimedia.org/wiki/Category:WTFPL" hreflang="en">Wikimedia Commons</a></li>
  </ul>
</div>
</div>
<div class="portal" role="navigation" id="p-lang" aria-labelledby="p-lang-label">
<h3 id="p-lang-label">Languages</h3>

<div class="body">
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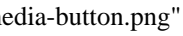
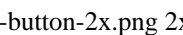
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1.92 reflections 0.9.8

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```
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 * @author Paul Phillips
 */
/*
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 *
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1.94 scala-library 2.9.1

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<http://scala-lang.org/>

```
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 * @author Martin Odersky
 */
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```

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1.7.2

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* Created on 02. March 2006 by Mauro Talevi

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[Bharati Bakshi - 29th July, 2014]

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