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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.



In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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## 1.16 django-auth-ldap 1.7.0

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## 1.25 babel-plugin-transform-es2015-sticky-regex 6.24.1

## 1.26 moment 2.19.1

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## 1.31 babel-cli 6.26.0

## 1.32 libseccomp 2.4.1

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## 1.36 chokidar 1.7.0

# 1.37 lunr 0.7.2

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# 1.44 python-pip 19.3.1

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2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes

2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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## A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands



as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes

2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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Just configure this file as the SSLCACertificateFile.#

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# 1.45 browserify-cipher 1.0.1

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# 1.46 minimalistic-assert 1.0.1

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# 1.47 minimalist 1.2.0

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# 1.48 is-extendable 0.1.1

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## 1.52 css-selector-tokenizer 0.7.1

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### 1.56 jsonschema 3.0.1

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## 1.58 elliptic 6.4.1

## 1.59 core-js 2.5.5

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pycparser -- A C parser in Python

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## 1.62 autobahn 18.9.1

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## 1.63 cached-property 1.5.1

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## 1.64 python-requests 2.21.0

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## 1.65 gojsonschema

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## 1.69 babel-traverse 6.26.0

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## 1.73 jesc 0.5.0

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## 1.77 babel-plugin-transform-es2015-block-scoping 6.26.0

# 1.78 jsonschema 2.5.1

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# 1.79 postcss-modules-local-by-default 1.2.0

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## 1.80 pbkdf2 3.0.16

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## 1.81 inherits 2.0.3

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## 1.82 wsaccel 0.6.2

## 1.83 babel-plugin-transform-es2015-unicode-regex 6.24.1

## 1.84 supports-color 2.0.0

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```
# supports-color [![Build Status](https://travis-ci.org/chalk/supports-color.svg?branch=master)](https://travis-ci.org/chalk/supports-color)
```

> Detect whether a terminal supports color

```
## Install
```

```
---
```

```
$ npm install --save supports-color
```

```
---
```

```
## Usage
```

```
```js
```

```
var supportsColor = require('supports-color');
```

```
if (supportsColor) {  
  console.log('Terminal supports color');  
}  
```
```

It obeys the `--color` and `--no-color` CLI flags.

For situations where using `--color` is not possible, add an environment variable `FORCE_COLOR` with any value to force color. Trumps `--no-color`.

```
## Related
```

- [supports-color-cli](https://github.com/chalk/supports-color-cli) - CLI for this module
- [chalk](https://github.com/chalk/chalk) - Terminal string styling done right

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## 1.85 glibc 2.33-6-

# g8d4241b8976273513e72cc1c5f6b1af3

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package engine

```
import (  
    "bytes"  
    "encoding/json"  
    "strings"  
    "testing"  
    "time"  
  
    "github.com/docker/cli/cli/command/formatter"  
    "github.com/docker/cli/internal/licenseutils"  
    "github.com/docker/licensing/model"  
    "gotest.tools/assert"  
    is "gotest.tools/assert/cmp"  
)
```

```

func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
context formatter.Context
expected string
}{
// Errors
{
formatter.Context{Format: "{{InvalidFunction}}"},
`Template parsing error: template: :1: function "InvalidFunction" not defined
`,
},
{
formatter.Context{Format: "{{nil}}"},
`Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
},
// Table format
{
formatter.Context{Format: NewSubscriptionsFormat("table", false)},
`NUM          OWNER          PRODUCT ID    EXPIRES          PRICING COMPONENTS
1            owner1          productid1    2020-01-01 10:00:00 +0000 UTC compstring
2            owner2          productid2    2020-01-01 10:00:00 +0000 UTC compstring
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table", true)},
`1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
`OWNER
owner1
owner2
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
`OWNER
owner1
owner2
`,
},
// Raw Format
{
formatter.Context{Format: NewSubscriptionsFormat("raw", false)},

```

```

    `license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

`,
},
{
    formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
    `license: id1
license: id2
`,
},
// Custom Format
{
    formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
    `owner1
owner2
`,
},
}

```

```

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

```

```

for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{
{
    Num: 1,
    Owner: "owner1",
    Subscription: model.Subscription{
        ID: "id1",
        Name: "name1",
        ProductID: "productid1",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
            &model.SubscriptionPricingComponent{
                Name: "nodes",
                Value: 10,
            },
        },
    },
    ComponentsString: "compstring",
},
}
}

```



```

{
  Num: 2,
  Owner: "owner2",
  Subscription: model.Subscription{
    ID: "id2",
    Name: "name2",
    ProductID: "productid2",
    Expires: &expiration,
    PricingComponents: model.PricingComponents{
      &model.SubscriptionPricingComponent{
        Name: "nodes",
        Value: 20,
      },
    },
    ComponentsString: "compstring",
  },
}
out := &bytes.Buffer{}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
  assert.Error(t, err, testcase.expected)
} else {
  assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
  expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
  subscriptions := []licenseutils.LicenseDisplay{
    {
      Num: 1,
      Owner: "owner1",
      Subscription: model.Subscription{
        ID: "id1",
        Name: "name1",
        ProductID: "productid1",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
          &model.SubscriptionPricingComponent{
            Name: "nodes",
            Value: 10,
          },
        },
      },
      ComponentsString: "compstring",
    },
  }
}

```

```

    },
    {
    Num: 2,
    Owner: "owner2",
    Subscription: model.Subscription{
    ID: "id2",
    Name: "name2",
    ProductID: "productid2",
    Expires: &expiration,
    PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 20,
    },
    },
    },
    ComponentsString: "compstring",
    },
}
expectedJSONs := []map[string]interface{}{
{
"Owner": "owner1",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id1",
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(10),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,

```

```

    "ID":          "id2",
    "Start":       nil,
    "Name":        "name2",
    "Num":         float64(2),
    "PricingComponents": []interface{}{
        map[string]interface{}{
            "name": "nodes",
            "value": float64(20),
        },
    },
    "ProductID":    "productid2",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State":        "",
    "Summary":      "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}

```

```

out := &bytes.Buffer{ }
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
    t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

```

```

func TestSubscriptionContextWriteJSONField(t *testing.T) {
    subscriptions := []licenseutils.LicenseDisplay{
        {Num: 1, Owner: "owner1"},
        {Num: 2, Owner: "owner2"},
    }
    out := &bytes.Buffer{ }
    err := SubscriptionsWrite(formatter.Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
    if err != nil {
        t.Fatal(err)
    }
    for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
        var s string
        if err := json.Unmarshal([]byte(line), &s); err != nil {
            t.Fatal(err)
        }
        assert.Check(t, is.Equal(subscriptions[i].Owner, s))
    }
}

```

}  
}

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package licensing

```
import (  
    "context"  
    "crypto/hmac"  
    "crypto/sha256"  
    "encoding/base64"  
    "encoding/json"  
    "fmt"  
    "time"  
  
    "github.com/docker/libtrust"  
    "github.com/docker/licensing/lib/errors"  
    "github.com/docker/licensing/lib/go-clientlib"  
    "github.com/docker/licensing/model"  
)  
  
func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {  
    url := c.baseURI  
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)  
  
    license := new(model.IssuedLicense)  
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {  
        return nil, err  
    }  
}
```

```

return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx, license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }

    key := keys[0]

    if !c.recognizedSigningKey(key) {
        return nil, errors.New("unrecognized signing key")
    }

    payload, err := signature.Payload()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "malformed signature payload")
    }
}

```



```

}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated

```

```

// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }

    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

```

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package model

```
import "time"
```

```
// A CheckResponse is the internal content of the PublicCheckResponse signed
```

```
// json blob.
```

```
type CheckResponse struct {
```

```
    Expiration    time.Time `json:"expiration"`
```

```
    Token         string   `json:"token"`
```

```
    MaxEngines    int      `json:"maxEngines"`
```

```
    ScanningEnabled bool    `json:"scanningEnabled"`
```

```
    Type          string   `json:"licenseType"`
```

```
    Tier          string   `json:"tier"`
```

```
}
```

```
// IssuedLicense represents an issued license
```

```
type IssuedLicense struct {
```

```
    KeyID         string   `json:"key_id"`
```

```
    PrivateKey    string   `json:"private_key"`
```

```
    Authorization string   `json:"authorization"`
```

```
}
```

```
// Valid returns true if the License is syntactically valid, false otherwise
```

```
func (l *IssuedLicense) Valid() (bool, string) {
```

```
if l.KeyID == "" {
    return false, "empty key_id"
}

if l.PrivateKey == "" {
    return false, "empty private_key"
}

if l.Authorization == "" {
    return false, "empty authorization"
}

return true, ""
}
ISC License
```

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package engine

```
import (  
    "time"  
  
    "github.com/docker/cli/cli/command/formatter"  
    "github.com/docker/cli/internal/licenseutils"  
    "github.com/docker/licensing/model"  
)  
  
const (  
    defaultSubscriptionsTableFormat = "table  
{ {.Num} }\t{ {.Owner} }\t{ {.ProductID} }\t{ {.Expires} }\t{ {.ComponentsString} }"  
    defaultSubscriptionsQuietFormat = "{ {.Num} }:{ {.Summary} }"  
  
    numHeader          = "NUM"  
    ownerHeader        = "OWNER"  
    licenseNameHeader  = "NAME"  
    idHeader           = "ID"  
    dockerIDHeader     = "DOCKER ID"  
    productIDHeader    = "PRODUCT ID"  
    productRatePlanHeader = "PRODUCT RATE PLAN"  
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"  
    startHeader        = "START"  
    expiresHeader       = "EXPIRES"  
    stateHeader        = "STATE"  
    eusaHeader         = "EUSA"  
    pricingComponentsHeader = "PRICING COMPONENTS"  
)
```

```

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
switch source {
case formatter.TableFormatKey:
if quiet {
return defaultSubscriptionsQuietFormat
}
return defaultSubscriptionsTableFormat
case formatter.RawFormatKey:
if quiet {
return `license: {{.ID}}`
}
return `license: {{.ID}}\nname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n`
}
return formatter.Format(source)
}

```

```

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
render := func(format func(subContext formatter.SubContext) error) error {
for _, sub := range subs {
licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
if err := format(licenseCtx); err != nil {
return err
}
}
return nil
}
licenseCtx := licenseContext{ }
licenseCtx.Header = map[string]string{
"Num": numHeader,
"Owner": ownerHeader,
"Name": licenseNameHeader,
"ID": idHeader,
"DockerID": dockerIDHeader,
"ProductID": productIDHeader,
"ProductRatePlan": productRatePlanHeader,
"ProductRatePlanID": productRatePlanIDHeader,
"Start": startHeader,
"Expires": expiresHeader,
"State": stateHeader,
"Eusa": eusaHeader,
"ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

```

```

type licenseContext struct {

```

```

formatter.HeaderContext
trunc bool
1  licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
return c.l.Num
}

func (c *licenseContext) Owner() string {
return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
return c.l.String()
}

func (c *licenseContext) Name() string {
return c.l.Name
}

func (c *licenseContext) ID() string {
return c.l.ID
}

func (c *licenseContext) DockerID() string {
return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
return c.l.ProductRatePlanID
}

```



```

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

```

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# 1.99 simplegeneric 0.18.1

## 1.99.1 Available under license :

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Development Status :: 7 - Inactive  
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Metadata-Version: 1.0  
Name: simplegeneric  
Version: 0.8.1  
Summary: Simple generic functions (similar to Python's own len(), pickle.dump(), etc.)  
Home-page: <http://cheeseshop.python.org/pypi/simplegeneric>  
Author: Phillip J. Eby  
Author-email: [peak@eby-sarna.com](mailto:peak@eby-sarna.com)  
License: ZPL 2.1  
Description: \* New in 0.8: Source and tests are compatible with Python 3 (w/o ``setup.py``)  
\* 0.8.1: setup.py is now compatible with Python 3 as well  
\* New in 0.7: `Multiple Types or Objects`\_  
\* New in 0.6: `Inspection and Extension`\_, and thread-safe method registration

The ``simplegeneric`` module lets you define simple single-dispatch generic functions, akin to Python's built-in generic functions like

`len()`, `iter()` and so on. However, instead of using specially-named methods, these generic functions use simple lookup tables, akin to those used by e.g. `pickle.dump()` and other generic functions found in the Python standard library.

As you can see from the above examples, generic functions are actually quite common in Python already, but there is no standard way to create simple ones. This library attempts to fill that gap, as generic functions are an excellent alternative to the Visitor pattern, as well as being a great substitute for most common uses of adaptation.

This library tries to be the simplest possible implementation of generic functions, and it therefore eschews the use of multiple or predicate dispatch, as well as avoiding speedup techniques such as C dispatching or code generation. But it has absolutely no dependencies, other than Python 2.4, and the implementation is just a single Python module of less than 100 lines.

## Usage

-----

Defining and using a generic function is straightforward::

```
>>> from simplegeneric import generic
>>> @generic
... def move(item, target):
...     """Default implementation goes here"""
...     print("what you say?!")

>>> @move.when_type(int)
... def move_int(item, target):
...     print("In AD %d, %s was beginning." % (item, target))

>>> @move.when_type(str)
... def move_str(item, target):
...     print("How are you %s!!" % item)
...     print("All your %s are belong to us." % (target,))

>>> zig = object()
>>> @move.when_object(zig)
... def move_zig(item, target):
...     print("You know what you %s." % (target,))
...     print("For great justice!")

>>> move(2101, "war")
In AD 2101, war was beginning.
```

```
>>> move("gentlemen", "base")
```

```
How are you gentlemen!!
```

```
All your base are belong to us.
```

```
>>> move(zig, "doing")
```

```
You know what you doing.
```

```
For great justice!
```

```
>>> move(27.0, 56.2)
```

```
what you say?!
```

## Inheritance and Allowed Types

-----

Defining multiple methods for the same type or object is an error::

```
>>> @move.when_type(str)
```

```
... def this_is_wrong(item, target):
```

```
...     pass
```

```
Traceback (most recent call last):
```

```
...
```

```
TypeError: <function move...> already has method for type <...'str'>
```

```
>>> @move.when_object(zig)
```

```
... def this_is_wrong(item, target): pass
```

```
Traceback (most recent call last):
```

```
...
```

```
TypeError: <function move...> already has method for object <object ...>
```

And the ``when\_type()`` decorator only accepts classes or types::

```
>>> @move.when_type(23)
```

```
... def move_23(item, target):
```

```
...     print("You have no chance to survive!")
```

```
Traceback (most recent call last):
```

```
...
```

```
TypeError: 23 is not a type or class
```

Methods defined for supertypes are inherited following MRO order::

```
>>> class MyString(str):
```

```
...     """String subclass"""
```

```
>>> move(MyString("ladies"), "drinks")
```

```
How are you ladies!!
```

```
All your drinks are belong to us.
```

Classic class instances are also supported (although the lookup process is slower than for new-style instances)::

```
>>> class X: pass
>>> class Y(X): pass

>>> @move.when_type(X)
... def move_x(item, target):
...     print("Someone set us up the %s!!!" % (target,))

>>> move(X(), "bomb")
Someone set us up the bomb!!!

>>> move(Y(), "dance")
Someone set us up the dance!!!
```

### Multiple Types or Objects

-----

As a convenience, you can now pass more than one type or object to the registration methods::

```
>>> @generic
... def isbuiltin(ob):
...     return False
>>> @isbuiltin.when_type(int, str, float, complex, type)
... @isbuiltin.when_object(None, Ellipsis)
... def yes(ob):
...     return True

>>> isbuiltin(1)
True
>>> isbuiltin(object)
True
>>> isbuiltin(object())
False
>>> isbuiltin(X())
False
>>> isbuiltin(None)
True
>>> isbuiltin(Ellipsis)
True
```

### Defaults and Docs

-----

You can obtain a function's default implementation using its `default` attribute::

```
>>> @move.when_type(Y)
... def move_y(item, target):
...     print("Someone set us up the %s!!!" % (target,))
...     move.default(item, target)
```

```
>>> move(Y(), "dance")
Someone set us up the dance!!!
what you say?!
```

`help()` and other documentation tools see generic functions as normal function objects, with the same name, attributes, docstring, and module as the prototype/default function::

```
>>> help(move)
Help on function move:
...
move(*args, **kw)
Default implementation goes here
...
```

## Inspection and Extension

-----

You can find out if a generic function has a method for a type or object using the `has_object()` and `has_type()` methods::

```
>>> move.has_object(zig)
True
>>> move.has_object(42)
False
```

```
>>> move.has_type(X)
True
>>> move.has_type(float)
False
```

Note that `has_type()` only queries whether there is a method registered for the *exact* type, not subtypes or supertypes::

```
>>> class Z(X): pass
>>> move.has_type(Z)
False
```

You can create a generic function that "inherits" from an existing generic function by calling `generic()` on the existing function::

```
>>> move2 = generic(move)
>>> move(2101, "war")
In AD 2101, war was beginning.
```

Any methods added to the new generic function override *\*all\** methods in the "base" function::

```
>>> @move2.when_type(X)
... def move2_X(item, target):
...     print("You have no chance to survive make your %s!" % (target,))

>>> move2(X(), "time")
You have no chance to survive make your time!

>>> move2(Y(), "time")
You have no chance to survive make your time!
```

Notice that even though `move()` has a method for type `Y`, the method defined for `X` in `move2()` takes precedence. This is because the `move` function is used as the `default` method of `move2`, and `move2` has no method for type `Y`::

```
>>> move2.default is move
True
>>> move.has_type(Y)
True
>>> move2.has_type(Y)
False
```

## Limitations

-----

\* The first argument is always used for dispatching, and it must always be passed *\*positionally\** when the function is called.

\* Documentation tools don't see the function's original argument signature, so you have to describe it in the docstring.

\* If you have optional arguments, you must duplicate them on every method in order for them to work correctly. (On the plus side, it means you can have different defaults or required arguments for each method, although relying on that quirk probably isn't a good idea.)

These restrictions may be lifted in later releases, if I feel the need. They



would require runtime code generation the way I do it in ``RuleDispatch``, however, which is somewhat of a pain. (Alternately I could use the ``BytecodeAssembler`` package to do the code generation, as that's a lot easier to use than string-based code generation, but that would introduce more dependencies, and I'm trying to keep this simple so I can just toss it into Chandler without a big footprint increase.)

.. \_excellent alternative to the Visitor pattern: <http://peak.telecommunity.com/DevCenter/VisitorRevisited>

Platform: UNKNOWN

Classifier: Development Status :: 6 - Mature

Classifier: Development Status :: 7 - Inactive

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Zope Public License

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.4

Classifier: Programming Language :: Python :: 2.5

Classifier: Programming Language :: Python :: 2.6

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Classifier: Programming Language :: Python :: 3

Classifier: Operating System :: OS Independent

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# 1.100 object.omit 2.0.1

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## 1.101 python3-asn1crypto 0.24.0

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## 1.102 asn1.js 4.10.1

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## 1.103 **minimist 0.0.8**

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## 1.106 backbone.marionette 3.4.4

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

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- \* Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

## Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
```

```

class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
...

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
...

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
0000: 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python

```

```

>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the

[documentation](http://snmplabs.com/pyasn1/),  
compiled ASN.1 modules for different protocols and file formats  
could be found in the pyasn1-modules  
[repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause  
BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely  
available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,  
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or  
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)  
or try browsing pyasn1  
[mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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ASN.1 library for Python

=====

```
.. toctree::  
    :maxdepth: 1
```

Abstract Syntax Notation One (ASN.1  
<[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)>) is a  
technology for exchanging structured data in a universally understood,  
hardware agnostic way. Many industrial, security and telephony  
applications heavily rely on ASN.1.

The `pyasn1` <<https://pypi.org/project/pyasn1/>> library implements  
ASN.1 support in pure-Python.

What is ASN.1

-----

ASN.1 is a large, arguably over-engineered and extremely old data modelling and  
serialisation tool. It is probably among the first serialisation protocols in  
the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and became a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <<https://news.ycombinator.com/item?id=8871453>> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <<https://developers.google.com/protocol-buffers/>> or `FlatBuffers` <<https://google.github.io/flatbuffers/>>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)

- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

## ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

## Documentation

-----

```
.. toctree::  
    :maxdepth: 2
```

/pyasn1/contents

## Use case

-----

```
.. toctree::  
    :maxdepth: 2
```

/example-use-case

## Download & Install

-----

```
.. toctree::  
    :maxdepth: 2
```

/download

## Changes

-----

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
.. toctree::  
    :maxdepth: 1
```

/changelog

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-----

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```
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```

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## Getting help

-----

Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_`  
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub.  
Alternatively, you could ask for help at  
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_`  
or search  
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_`  
mailing list archive.

## Books on ASN.1

-----

The pyasn1 implementation is largely based on reading up the following awesome books:

- \* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`\_` by Olivier Dubuisson
- \* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_` by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* `ITU standards` <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`\_`

On the other end of the readability spectrum, here is a quick and sweet write up:

- \* `A Layman's Guide to a Subset of ASN.1, BER, and DER` <[ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc](http://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc)>`\_` by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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# 1.108 bash 5.0

## 1.108.1 Available under license :

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@c ispell-local-pdict: "ispell-dict"

@c End:

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## 1.109 django-redis 4.11.0

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# 1.110 big.js 5.2.2

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# 1.111 babel-helper-define-map 6.26.0

## 1.112 fill-range 2.2.3

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## 1.113 glob 7.1.2

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# 1.114 websocket-client 0.47.0

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

```
=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
```

```
<!--
```

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```
- file, You can obtain one at http://mozilla.org/MPL/2.0/.
```

```
-->
```

```
<!-- $Id$ -->
```

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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    License, v. 2.0. If a copy of the MPL was not distributed with this
    file, You can obtain one at http://mozilla.org/MPL/2.0/.
  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
    <xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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## 1.117 soundex 0.2.1

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## 1.119 Ivm2 2.02.185

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# 1.120 babel-plugin-transform-es2015-spread

## 6.22.0

## 1.121 Idap-filters 2.2.2

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## 1.123 punycode 2.1.1

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## 1.124 postcss-modules-extract-imports 1.2.1

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## 1.127 channels-redis 2.4.2

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## 1.130 remove-trailing-separator 1.1

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## b

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## 1.136 python-backports-ssl-match-hostname

### 3.5.0.1

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## 1.142 anymatch 1.3.2

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## 1.153 js-cookie 2.1.4

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## 1.155 to-fast-properties 1.0.3

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## 1.160 python-lxml 4.6.5

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## 1.162 regenerator-runtime 0.11.1

# 1.163 cssesc 0.1.0

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# 1.164 open-vm-tools 10.3.5-10430147

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Open-vm-tools v10.3.0

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>>> frebsd-base64-4.8

base64.c -- routines to encode/decode base64 data  
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## 1.167 babel-code-frame 6.26.0

## 1.168 docker-engine 19.03.5

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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# 1.173 minimatch 3.0.4

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## 1.177 safe-buffer 5.1.2

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## 1.182 fast-json-stable-stringify 2.0.0

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## 1.183 array-unique 0.2.1

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## 1.184 docker-containerd 1.2.12

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<http://github.com/gogo/protobuf>

Go support for Protocol Buffers - Google's data interchange format

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# 1.186 babel-plugin-check-es2015-constants 6.22.0

# 1.187 babel-plugin-transform-es2015-arrow- functions 6.22.0

# 1.188 sha.js 2.4.11

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## 1.189 arr-flatten 1.1.0

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# 1.190 for-in 1.0.2

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## 1.193 bzip2 1.0.8

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The first commit to the Celery codebase was made on Fri Apr 24 13:30:00 2009 +0200, and has since then been improved by many contributors.

Everyone who have ever contributed to Celery should be in this list, but in a recent policy change it has been decided that everyone must add themselves here, and not be added by others, so it's currently incomplete waiting for everyone to add their names.

The list of authors added before the policy change can be found in docs/AUTHORS.txt.

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## 1.199 ansi-regex 2.1.1

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# e

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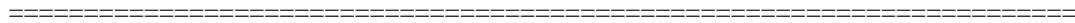
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Protocol Buffers for Go with Gadgets

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<http://github.com/gogo/protobuf>

Go support for Protocol Buffers - Google's data interchange format

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# 1.201 glob-parent 2.0.0

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## 1.205 pexpect 4.6.0

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## 1.207 regenerate 1.3.3

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## 1.208 ansi-styles 3.2.1

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## 1.210 babel-plugin-transform-es2015-modules-commonjs 6.26.0

## 1.211 babel-preset-es2015 6.24.1

## 1.212 ripemd160 2.0.2

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# 1.214 six 1.14.0

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# 1.215 bind 9.11.13

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<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

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xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->

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The original code is FirewallControl.pas, released April 16, 2007.

The initial developer of the original code is Rainer Budde (<http://www.speed-soft.de>).

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## 1.226 babel-plugin-transform-es2015-function-name 6.24.1

## 1.227 babel-core 6.26.0

## 1.228 babel-plugin-transform-es2015-object-super 6.24.1

## 1.229 home-or-tmp 2.0.0

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@enumerate 0

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```
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```

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```
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```



<signature of Ty Coon>, 1 April 1989

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## 1.236 postcss 6.0.23

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## 1.237 sapy 1.4.7

### 1.237.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
"_SLERUM::slerum_auth_request - send auth request for the license: %s"
```

Found in path(s):

```
* /opt/cola/permits/1331064531_1660589239.7372057/0/sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/test_automation/sanity/sa_ultra.py
```

No license file was found, but licenses were detected in source scan.

```
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"metadata": {},
"source": [
"# Setup\n",
"\n",
"The parameters below should be configured before running the notebook."
]
},
{
"cell_type": "code",
```

```

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"outputs": [],
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  "C_LIBRARY_PATH = \"/path/to/libSmartSecurity.so\""]
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    "# Run It"
  ]
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    "import os\n",
    "import time\n",
    "\n",
    "import sapy\n",
    "from sapy.plugins.datastore import SQLiteDatastore"
  ]
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    "if os.path.exists(SQLITE_PATH):\n",
    "    os.remove(SQLITE_PATH)\n",
    "\n",
    "sapy.mock.settings[\"builtin_security_module.c_library_path\"] = C_LIBRARY_PATH\n",

```

```

"sapy.mock.settings[\"datastore.filepath\"] = SQLITE_PATH\n",
"sapy.mock.settings[\"datastore.delete_on_finalize\"] = True\n",
"sapy.mock.plugins[\"datastore\"] = SQLiteDatastore\n",
"\n",
"sapy.init_smart_agent(sapy.mock.settings, sapy.mock.plugins)\n",
"\n",
"agent = sapy.smart_agent()
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"from IPython.display import display\n",
"\n",
"number = 100\n",
"progress_bar = FloatProgress(min=0, max=number)\n",
"display(progress_bar)\n",
"\n",
"print(\"Initial size: %r Byte\" % getsize())\n",
"\n",
"data_KB = []\n",
"for i in range(number):\n",
"    tcid, tenant = agent.create_tenant()\n",
"    task = tenant.register(sapy.mock.token, force=True)\n",
"    \n",
"    time.sleep(.1)\n",
"    size_Byte = getsize()\n",
"    data_KB.append(size_Byte/1000.0)\n",
"    progress_bar.value += 1\n",
"\n",
"print(\"Done \")
]
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"\n",
"*Note:* matplotlib is required to plot the graph. You are free to use any other plotting libraries though. For most of the system, within the current virtual environment issuing following command should suffice to install matplotlib.\n",
"\n",
"```bash\n",

```

```
"$ pip install matplotlib\n",
"```\n",
"\n",
"* More details at official [matplotlib](https://matplotlib.org/users/installing.html) installation page."
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},
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  "plt.plot(data_KB, list(range(len(data_KB))), label='linear')\n",  
  "plt.xlabel(\"Number of Tenants\")\n",  
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\* /opt/cola/permits/1331064531\_1660589239.7372057/0/sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/docs/source/materials/tenant-creation.ipynb

No license file was found, but licenses were detected in source scan.

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"sapy.mock.plugins[\"datastore\"] = SQLiteDatastore\n",
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"from IPython.display import display\n",
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"progress_bar = FloatProgress(min=0, max=number)\n",
"display(progress_bar)\n",
"\n",
"tcid, tenant = agent.create_tenant()\n",
"task = tenant.register(sapy.mock.token, force=True)\n",
"\n",
"data_KB = []\n",
"for i in range(number):\n",
"    entitlement = tenant.entitlement(ENTITLEMENT_TAG)\n",
"    entitlement.request(1)\n",
"    time.sleep(.1)\n",
"    size_Byte = getsize()\n",
"    data_KB.append(size_Byte/1000.0)\n",
"    progress_bar.value += 1\n",
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"print(\"Done \")"
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```

```

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Found in path(s):

```
* /opt/cola/permits/1331064531_1660589239.7372057/0/sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/docs/source/materials/entitlement-request.ipynb
```

No license file was found, but licenses were detected in source scan.

```
// Permission to use, copy, modify, and/or distribute this software for any
// purpose with or without fee is hereby granted, provided that the above
// copyright notice and this permission notice appear in all copies.
```

Found in path(s):

```
* /opt/cola/permits/1331064531_1660589239.7372057/0/sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/docs/source/.static/js/renderjson.js
```

No license file was found, but licenses were detected in source scan.

Smart Licensing Status

=====

{{get\_license\_status}}

Evaluation Period:

Evaluation Mode: {{get\_eval\_mode}}

Evaluation Period Remaining: {{get\_eval\_period\_remaining}}

## License Usage

=====

```
{{^get_license_usage}} {{get_line_break}} No licenses in
use{{get_line_break}} {{/get_license_usage}} {{#get_license_usage}}
License: {{#name}} {{name}} {{/name}}
Entitlement Tag: {{#name-tag}} {{name-tag}} {{/name-tag}}
Description: {{#description}} {{description}} {{/description}}
Count: {{#count}} {{count}} {{/count}}
Version: {{#version}} {{version}} {{/version}}
Status: {{#status}} {{status}} {{/status}}
Status time: {{#status_time}} {{status_time}} {{/status_time}}
Request Time: {{#request_time}} {{request_time}} {{/request_time}} {{#export-status}} {{get_line_break}}
Export status: {{export-status}} {{/export-status}} {{#feature}} {{get_line_break}} Feature name:
{{feature}} {{/feature}} {{#feature description}} {{get_line_break}} Feature Description: {{feature
description}} {{/feature description}}
{{/get_license_usage}}
```

## Product Information

=====

```
{{get_license_udi}}
```

Agent Version

=====

```
Smart Agent for Licensing: {{get_agent_version}}
```

## Upcoming Scheduled Jobs

=====

```
Certificate Renewal: {{get_cert_renewal}}
```

```
Certificate Expiration: {{get_cert_expiration_check}}
```

```
Authorization Renewal: {{get_auth_renewal}}
```

```
Authorization Expiration: {{get_auth_expiration_check}}
```

```
Evaluation Expiration Check: {{get_eval_expiration_check}}
```

```
Register Period Expiration Check: {{get_register_period_expiration_check}}
```

```
Ack Expiration Check: {{get_ack_expiration_check}}
```

## License Certificates

=====

```
{{^get_license_certificates_default}}
```

```
Production cert: {{get_production_cert}}
```

```
PIID: {{get_piid}}
```

Licensing Certificates:

ID Cert Info:

Start Date: {{#get\_id\_cert\_start\_date}} {{get\_id\_cert\_start\_date}} {{/get\_id\_cert\_start\_date}}

Expiry Date: {{#get\_id\_cert\_expiry\_date}} {{get\_id\_cert\_expiry\_date}} {{/get\_id\_cert\_expiry\_date}}

Version: {{#get\_id\_cert\_version\_number}} {{get\_id\_cert\_version\_number}} {{/get\_id\_cert\_version\_number}}

Serial Number:

```
{{#get_id_cert_serial_number}} {{get_id_cert_serial_number}} {{/get_id_cert_serial_number}}
```

Common Name:

```
{{#get_id_cert_common_name}} {{get_id_cert_common_name}} {{/get_id_cert_common_name}}
```

Issuer Name: {{#get\_id\_cert\_issuer\_name}}{{get\_id\_cert\_issuer\_name}}{/get\_id\_cert\_issuer\_name}}

Attributes:

CN: {{#get\_id\_cert\_attributes\_cn}}{{get\_id\_cert\_attributes\_cn}}{/get\_id\_cert\_attributes\_cn}}

Serial Number:

{{#get\_id\_cert\_attributes\_serial\_number}}{{get\_id\_cert\_attributes\_serial\_number}}{/get\_id\_cert\_attributes\_serial\_number}}

O: {{#get\_id\_cert\_attributes\_o}}{{get\_id\_cert\_attributes\_o}}{/get\_id\_cert\_attributes\_o}}

Signing Cert Info:

Start Date: {{#get\_signing\_cert\_start\_date}}{{get\_signing\_cert\_start\_date}}{/get\_signing\_cert\_start\_date}}

Expiry Date:

{{#get\_signing\_cert\_expiry\_date}}{{get\_signing\_cert\_expiry\_date}}{/get\_signing\_cert\_expiry\_date}}

Version:

{{#get\_signing\_cert\_version\_number}}{{get\_signing\_cert\_version\_number}}{/get\_signing\_cert\_version\_number}}

Serial Number:

{{#get\_signing\_cert\_serial\_number}}{{get\_signing\_cert\_serial\_number}}{/get\_signing\_cert\_serial\_number}}

Common Name:

{{#get\_signing\_cert\_common\_name}}{{get\_signing\_cert\_common\_name}}{/get\_signing\_cert\_common\_name}}

Issuer Name:

{{#get\_signing\_cert\_issuer\_name}}{{get\_signing\_cert\_issuer\_name}}{/get\_signing\_cert\_issuer\_name}}

Attributes:

CN:

{{#get\_signing\_cert\_attributes\_cn}}{{get\_signing\_cert\_attributes\_cn}}{/get\_signing\_cert\_attributes\_cn}}

O: {{#get\_signing\_cert\_attributes\_o}}{{get\_signing\_cert\_attributes\_o}}{/get\_signing\_cert\_attributes\_o}}

Intermediate Cert info:

Start Date:

{{#get\_intermediate\_cert\_start\_date}}{{get\_intermediate\_cert\_start\_date}}{/get\_intermediate\_cert\_start\_date}}

Expiry Date:

{{#get\_intermediate\_cert\_expiry\_date}}{{get\_intermediate\_cert\_expiry\_date}}{/get\_intermediate\_cert\_expiry\_date}}

Version:

{{#get\_intermediate\_cert\_version\_number}}{{get\_intermediate\_cert\_version\_number}}{/get\_intermediate\_cert\_version\_number}}

Serial Number:

{{#get\_intermediate\_cert\_serial\_number}}{{get\_intermediate\_cert\_serial\_number}}{/get\_intermediate\_cert\_serial\_number}}

Common Name:

{{#get\_intermediate\_cert\_common\_name}}{{get\_intermediate\_cert\_common\_name}}{/get\_intermediate\_cert\_common\_name}}

Issuer Name:

{{#get\_intermediate\_cert\_issuer\_name}}{{get\_intermediate\_cert\_issuer\_name}}{/get\_intermediate\_cert\_issuer\_name}}

Attributes:

CN:

{{#get\_intermediate\_cert\_attributes\_cn}}{{get\_intermediate\_cert\_attributes\_cn}}{/get\_intermediate\_cert\_attributes\_cn}}

O:

```
{{#get_intermediate_cert_attributes_o}}{{get_intermediate_cert_attributes_o}}{/get_intermediate_cert_attributes_o}}
{{/get_license_certificates_default}}{{#get_license_certificates_default}}Production cert:
{{get_production_cert}}{{get_line_break}}{{get_license_certificates_default}}{{get_line_break}}{/get_license_certificates_default}}
Other info
=====
Software ID: {{get_software_tag}}
Tenant State: {{get_tenant_state}}
Transport: {{get_transport}}
Locale: {{get_locale}}
Tenants available: {{get_list_of_tenants_created}}
Reservation enable: {{get_reservation_enable}}
{{#get_reservation_enable}}
Reservation status: {{get_reservation_status}}
Reservation Request code: {{get_reservation_request_code}}
Reservation authorization code: {{get_reservation_auth_code}}
Reservation return code: {{get_reservation_return_code}}
Reservation confirmation code: {{get_reservation_confirmation_code}}
{{/get_reservation_enable}}
```

Found in path(s):

```
* /opt/cola/permits/1331064531_1660589239.7372057/0/sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/clitools/cliexecuter/show_tech_support.mustache
* /opt/cola/permits/1331064531_1660589239.7372057/0/sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/sapy/builtins/show_api/templates/show_tech_support.mustache
No license file was found, but licenses were detected in source scan.
```

:class:`TransportFatalError`: a special exception type recognized by the agent.  
:class:`TransportRetryLater`: a special exception type recognized by the agent.

Found in path(s):

```
* /opt/cola/permits/1331064531_1660589239.7372057/0/sapy-mirror-release-v1-4-7-zip/sapy-mirror-release-v1.4.7/sapy/plugins/transport/base.py
```

## 1.238 repeat-element 1.1.2

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## 1.240 css-selector-tokenizer 0.7.0

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## 1.241 kind-of 3.2.2

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## 1.242 backbone-computedfields 0.0.12

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## 1.243 wewidth 0.1.7

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## 1.244 repeat-string 1.6.1

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## 1.245 kombu 4.6.7

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# 1.246 rfc3987 1.3.7

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```

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

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## 1.247 plotly-js-basic-dist 1.44.1

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## 1.249 pyasn1 0.4.7

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ASN.1 library for Python

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin\_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features

-----

- \* Generic implementation of ASN.1 types (X.208)
- \* Standards compliant BER/CER/DER codecs
- \* Dumps/loads ASN.1 structures from Python types
- \* 100% Python, works with Python 2.4 up to Python 3.7
- \* MT-safe
- \* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

-----

ASN.1 solves the data serialisation problem. This solution was

designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house', Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```
```

```
)  
)  
)  
...  

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```
```python  
>>> record = Record()  
>>> record['id'] = 123  
>>> record['room'] = 321  
>>> str(record)  
Record:  
id=123  
room=321  
>>>  
...  

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```
```python  
>>> from pyasn1.codec.der.encoder import encode  
>>> substrate = encode(record)  
>>> hexdump(substrate)  
00000: 30 07 02 01 7B 80 02 01 41  
...  

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```
```python  
>>> from pyasn1.codec.der.decoder import decode  
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())  
>>>  
>>> for field in received_record:  
>>>     print('{} is {}'.format(field, received_record[field]))  
id is 123  
room is 321  
house is 0  
>>>  
>>> record == received_record  
True  

```

```
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour.

To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```
```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
...
```
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```
```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
...
```
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

-----

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).

If something does not work as expected,  
[open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or  
post your question [on Stack Overflow](https://stackoverflow.com/questions/ask)  
or try browsing pyasn1  
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ASN.1 library for Python

```
=====
```

```
.. toctree::
```

```
   :maxdepth: 1
```

Abstract Syntax Notation One (`ASN.1`)

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

```
-----
```

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting [discussions https://news.ycombinator.com/item?id=8871453](https://news.ycombinator.com/item?id=8871453) on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/>

or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example.

Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking

a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

#### ASN.1 applications

-----

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

#### ASN.1 gotchas

-----

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

#### Documentation



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.. toctree::  
:maxdepth: 2
```

/pyasn1/contents

Use case

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```
.. toctree::  
:maxdepth: 2
```

/example-use-case

Download & Install

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```
.. toctree::  
:maxdepth: 2
```

/download

Changes

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All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

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.. toctree::  
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/changelog

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```
.. toctree::  
:maxdepth: 2
```

/license

Getting help

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Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_`  
and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub.  
Alternatively, you could ask for help at  
`Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_`  
or search  
`pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_`  
mailing list archive.

## Books on ASN.1

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The pyasn1 implementation is largely based on reading up the following awesome books:

- \* `ASN.1 - Communication between heterogeneous systems` <<http://www.oss.com/asn1/dubuisson.html>>`\_` by Olivier Dubuisson
- \* `ASN.1 Complete` <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_` by Prof John Larmouth

Here you can get the official standards which is hard to read:

- \* `ITU standards` <<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`\_`

On the other end of the readability spectrum, here is a quick and sweet write up:

- \* `A Layman's Guide to a Subset of ASN.1, BER, and DER` <<http://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`\_` by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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No license file was found, but licenses were detected in source scan.

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## 1.250 pyparsing 2.4.2

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## 1.251 babel-register 6.26.0

## 1.252 pem 21.1.0

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## 1.253 des.js 1.0.0

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## 1.254 backbone.radio 2.0.0

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## 1.255 css-loader 1.0.1

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# 1.256 coreutils 8.31

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Version 3, 29 June 2007

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# 1.257 pynacl 1.3.0

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## 1.258 normalize-path 2.1.1

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## 1.259 cipher-base 1.0.4

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# 1.271 babel-runtime 6.26.0

# 1.272 netlink

# dbc72376c86301bb873c332830857e73c9f701e

# 3

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## 1.273 babel-messages 6.23.0

## 1.274 color-name 1.1.3

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## 1.275 sudo 1.8.31

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

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Andrew, Nick  
Andric, Dimitry  
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Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross

Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtislav  
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Edgington, Ben  
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Farrell, Brian  
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Gelman, Stephen  
Gerraty, Simon J.  
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Moldung, Jan Thomas  
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Paradis, Chantal  
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Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
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Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
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Schuring, Arno  
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Thomas, Matthew  
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Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk



Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
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Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
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Margeviius, Algimantas  
Maryanov, Pavel  
Nikoli, Miroslav  
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Putanec, Boidar  
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## 1.277 public-encrypt 4.0.2

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## 1.278 cyrus-libsasl2 2.1.27

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\* Rob Earhart

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\*/

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* Rob Earhart
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* Rob Siemborski
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# 1.283 babel-plugin-transform-regenerator

## 6.26.0

# 1.284 babel-helper-optimise-call-expression

## 6.24.1

# 1.285 async-timeout 3.0.0

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## 1.286 os-tmpdir 1.0.2

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## 1.288 ncurses 6.1

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Upstream source https://invisible-island.net/ncurses/ncurses.html
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## 1.289 log-rotate 3.15.1

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## 1.293 json-schema-traverse 0.4.1

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## 1.326 parse-asn1 5.1.1

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## 1.333 channels 2.3.1

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## 1.334 setuptools-scm 3.3.3

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-----

Written by: Philip Hazel  
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## 1.338 has-ansi 2.0.0

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```
# has-ansi [![Build Status](https://travis-ci.org/sindresorhus/has-ansi.svg?branch=master)](https://travis-ci.org/sindresorhus/has-ansi)
```

> Check if a string has [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI\_escape\_code)

```
## Install
```

```
...
```

```
$ npm install --save has-ansi
```

```
...
```

```
## Usage
```

```
```js
```

```
var hasAnsi = require('has-ansi');
```

```
hasAnsi('\u001b[4mcake\u001b[0m');
```

```
//=> true
```

```
hasAnsi('cake');
```

```
//=> false
```

```
...
```

```
## Related
```

- [has-ansi-cli](https://github.com/sindresorhus/has-ansi-cli) - CLI for this module

- [strip-ansi](https://github.com/sindresorhus/strip-ansi) - Strip ANSI escape codes

- [ansi-regex](https://github.com/sindresorhus/ansi-regex) - Regular expression for matching ANSI escape codes

- [chalk](https://github.com/sindresorhus/chalk) - Terminal string styling done right

```
## License
```

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## 1.339 punycode 1.4.1

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## 1.341 is-posix-bracket 0.1.1

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# 1.343 chalk 1.1.3

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# 1.344 redis 3.2.0

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```
/*!  
* Connect - Redis  
* Copyright(c) 2012 TJ Holowaychuk <tj@vision-media.ca>  
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*/
```

Found in path(s):

```
* /opt/cola/permits/1207228151_1632672049.02/0/connect-redis-3-2-0-1-tgz/package/lib/connect-redis.js
```

# 1.345 django 2.1.4

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Advice for new contributors

=====

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.. admonition:: Basic tools and workflow

If you are new to contributing to Django, the `:doc:`intro/contributing``

tutorial will give you an introduction to the tools and the workflow.

## First steps

=====

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### \* \*\*Look for tickets that are accepted and review patches to build familiarity with the codebase and the process\*\*

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. [:doc:`Run the tests </internals/contributing/writing-code/unit-tests>`](#) and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

### \* \*\*Keep old patches up to date\*\*

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on [:doc:`writing-code/submitting-patches`](#).

### \* \*\*Write some documentation\*\*

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on [:doc:`writing-documentation`](#).

.. note::

The `reports page`\_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. \_reports page: <https://code.djangoproject.com/wiki/Reports>

.. \_CLA: <https://www.djangoproject.com/foundation/cla/>

.. \_Contributor License Agreement FAQ: <https://www.djangoproject.com/foundation/cla/faq/>

.. \_unreviewed ticket: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

## Guidelines

=====

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

\* \*\*Pick a subject area that you care about, that you are familiar with, or that you want to learn about\*\*

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

\* \*\*Analyze tickets' context and history\*\*

Trac isn't an absolute; the context is just as important as the words.

When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

\* \*\*Start small\*\*

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

\* \*\*If you're going to engage in a big task, make sure that your idea has support first\*\*

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

\* \*\*Be bold! Leave feedback!\*\*

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **\*\*you\*\***!

**\*\*Err on the side of caution when marking things Ready For Check-in\*\***

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

**\*\*Wait for feedback, and respond to feedback that you receive\*\***

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

**\*\*Be rigorous\*\***

When we say ":pep: 8", and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. [\\_easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1](https://code.djangoproject.com/query?status=!closed&easy=1)

.. [\\_new-contributors-faq:](#)

## FAQ

===

1. **\*\*This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?\***

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the `[django-developers]` mailing list asking for review on the ticket, or to bring it up in the `#django-dev`` IRC channel.

2. **\*\*I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?\***

Short answer: No. It's always better to get another set of eyes on a

ticket. If you're having trouble getting that second set of eyes, see question 1, above.

## A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute

a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

- (2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## 1.346 urllib3 1.25.6

### 1.346.1 Available under license :

# Contributions to the urllib3 project

## Creator & Maintainer

\* Andrey Petrov <[andrey.petrov@shazow.net](mailto:andrey.petrov@shazow.net)>

## ## Contributors

In chronological order:

- \* victor.vde <<http://code.google.com/u/victor.vde/>>
  - \* HTTPS patch (which inspired HTTPSConnectionPool)
  
- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
  - \* NTLM-authenticated HTTPSConnectionPool
  - \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
  
- \* niphlod <niphlod@gmail.com>
  - \* Client-verified SSL certificates for HTTPSConnectionPool
  - \* Response gzip and deflate encoding support
  - \* Better unicode support for filepost using StringIO buffers
  
- \* btoconnor <brian@btoconnor.net>
  - \* Non-multipart encoding for POST requests
  
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
  - \* Code review, PEP8 compliance, benchmark fix
  
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- \* studer <theo.studer@gmail.com>
  - \* IPv6 url support and test coverage
  
- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  - \* Support for explicitly closing pooled connections
  
- \* hartator <hartator@gmail.com>
  - \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <thomas@t-8ch.de>
  - \* Support for TLS SNI
  - \* API unification of ssl\_version/cert\_reqs
  - \* SSL fingerprint and alternative hostname verification
  - \* Bugfixes in testsuite

- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield <https://lukasa.co.uk/about/>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module

- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  - \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
  - \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
  - \* HTTPHeaderDict and associated tests and docs
  - \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
  - \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
  - \* source\_address support and tests (with https://github.com/bui)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
  - \* PEP8 Compliance and Linting
  - \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
  - \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
  - \* Google App Engine documentation
  
- \* Aaron Meurer <asmeurer@gmail.com>
  - \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
  - \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
  - \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
  - \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
  - \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
  - \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
  - \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>



- \* IPv6 bugfixes in testsuite
- \* Thea Flowers <magicalgirl@google.com>
  - \* App Engine environment tests.
  - \* Documentation re-write.
- \* John Krauss <https://github.com/talos>
  - \* Clues to debugging problems with `cryptography` dependency in docs
- \* Disassem <https://github.com/Disassem>
  - \* Fix pool-default headers not applying for url-encoded requests like GET.
- \* James Atherfold <jlatherfold@hotmail.com>
  - \* Bugfixes relating to cleanup of connections during errors.
- \* Christian Pedersen <https://github.com/chripede>
  - \* IPv6 HTTPS proxy bugfix
- \* Jordan Moldow <https://github.com/jmoldow>
  - \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
  - \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
  - \* Creation of ``HTTPConnectionPool.ResponseCls``.
- \* Predrag Gruevski <https://github.com/obi1kenobi>
  - \* Made cert digest comparison use a constant-time algorithm.
- \* Adam Talsma <https://github.com/a-tal>
  - \* Bugfix to ca\_cert file paths.
- \* Evan Meagher <https://evanmeagher.net>
  - \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
- \* John Vandenberg <jayvdb@gmail.com>
  - \* Python 2.6 fixes; pyflakes and pep8 compliance
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
  - \* Bugfix related to reusing connections in indeterminate states.
- \* Ville Skytt <ville.skytta@iki.fi>
  - \* Logging efficiency improvements, spelling fixes, Travis config.
- \* Shige Takeda <smtakeda@gmail.com>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
- \* Jess Shapiro <jesse@jesseshapiro.net>
  - \* Various character-encoding fixes/tweaks
  - \* Disabling IPv6 DNS when IPv6 connections not supported

- \* David Foster <<http://dafoster.net/>>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <[jeremy@jcline.org](mailto:jeremy@jcline.org)>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto:nate.prewitt@gmail.com)>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <[sethmichaellarson@protonmail.com](mailto:sethmichaellarson@protonmail.com)>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <[alex.dias@smarkets.com](mailto:alex.dias@smarkets.com)>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <[moin18@gmail.com](mailto:moin18@gmail.com)>
- \* Lazily load idna package
  
- \* Tom White <[s6yg1ez3@mail2tor.com](mailto:s6yg1ez3@mail2tor.com)>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <[tim.burke@gmail.com](mailto:tim.burke@gmail.com)>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <[tuukka.mustonen@gmail.com](mailto:tuukka.mustonen@gmail.com)>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <[erik@mozilla.com](mailto:erik@mozilla.com)>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <[wolfgang.richter@gmail.com](mailto:wolfgang.richter@gmail.com)>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <[github@mikeage.net](mailto:github@mikeage.net)>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <[mail@itziakos.gr](mailto:mail@itziakos.gr)>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai (through Jess Shapiro) <[jshapiro@akamai.com](mailto:jshapiro@akamai.com)>

- \* Ongoing maintenance; 2017-2018
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- \* Remove Authorization header regardless of case when redirecting to cross-site
- \* James Meickle <https://permadeath.com/>
- \* Improve handling of Retry-After header
- \* Chris Jerdonek <chris.jerdonek@gmail.com>
- \* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

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## 1.347 chalk 2.4.2

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## 1.348 libevent 2.1.11

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## 1.350 babel-helper-get-function-arity 6.24.1

# 1.351 babel-plugin-transform-es2015-computed-properties 6.24.1

## 1.352 paramiko 2.7.2

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## 1.355 miller-rabin 4.0.1

## 1.356 diff-match-patch 20121119

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## 1.362 babel-helper-function-name 6.24.1

## 1.363 supports-color 5.5.0

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## 1.370 openpyxl 2.5.6

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Metadata-Version: 1.2

Name: openpyxl

Version: 2.5.6

Summary: A Python library to read/write Excel 2010 xlsx/xlsm files

Home-page: <https://openpyxl.readthedocs.io>

Author: See AUTHORS

Author-email: [charlie.clark@clark-consulting.eu](mailto:charlie.clark@clark-consulting.eu)

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Description: .. image:: <https://coveralls.io/repos/bitbucket/openpyxl/openpyxl/badge.svg?branch=default>  
:target: <https://coveralls.io/bitbucket/openpyxl/openpyxl?branch=default>  
:alt: coverage status

## Introduction

-----

openpyxl is a Python library to read/write Excel 2010 xlsx/xlsm/xtx/xltm files.

It was born from lack of existing library to read/write natively from Python the Office Open XML format.

All kudos to the PHPEXcel team as openpyxl was initially based on PHPEXcel.

## Mailing List

-----

The user list can be found on <http://groups.google.com/group/openpyxl-users>

## Sample code::

```
from openpyxl import Workbook
wb = Workbook()

# grab the active worksheet
ws = wb.active

# Data can be assigned directly to cells
ws['A1'] = 42

# Rows can also be appended
ws.append([1, 2, 3])

# Python types will automatically be converted
import datetime
ws['A2'] = datetime.datetime.now()

# Save the file
wb.save("sample.xlsx")
```

## Documentation

-----

The documentation is at: <https://openpyxl.readthedocs.io>

- \* installation methods
- \* code examples
- \* instructions for contributing

Release notes: <https://openpyxl.readthedocs.io/en/stable/changes.html>

Platform: UNKNOWN  
Classifier: Development Status :: 5 - Production/Stable  
Classifier: Operating System :: MacOS :: MacOS X  
Classifier: Operating System :: Microsoft :: Windows  
Classifier: Operating System :: POSIX  
Classifier: License :: OSI Approved :: MIT License  
Classifier: Programming Language :: Python  
Classifier: Programming Language :: Python :: 2.7  
Classifier: Programming Language :: Python :: 3.4  
Classifier: Programming Language :: Python :: 3.5  
Classifier: Programming Language :: Python :: 3.6  
Classifier: Programming Language :: Python :: 3.7  
Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*

Found in path(s):

- \* /opt/cola/permits/1235171199\_1638352926.24/0/openpyxl-2-5-6-tar-gz/openpyxl-2.5.6/PKG-INFO
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## 1.374 babel-template 6.26.0

## 1.375 txai 18.8.1

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

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\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997



```

*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

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# 1.377 object.assign 4.1.1

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# 1.378 webpack-jquery-ui 2.0.1

# 1.379 colorama 0.4.1

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## 1.380 urllib3 1.24.2

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- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
  - \* NTLM-authenticated HTTPSConnectionPool
  - \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
- \* niphlod <niphlod@gmail.com>
  - \* Client-verified SSL certificates for HTTPSConnectionPool
  - \* Response gzip and deflate encoding support
  - \* Better unicode support for filepost using StringIO buffers
- \* btoconnor <brian@btoconnor.net>
  - \* Non-multipart encoding for POST requests
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
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- \* studer <theo.studer@gmail.com>
  - \* IPv6 url support and test coverage
- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  - \* Support for explicitly closing pooled connections
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  - \* Corrected multipart behavior for params
- \* Thomas Weischuh <thomas@t-8ch.de>
  - \* Support for TLS SNI
  - \* API unification of ssl\_version/cert\_reqs
  - \* SSL fingerprint and alternative hostname verification

- \* Bugfixes in testsuite
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
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- \* Various bugfixes and test improvements.
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
- \* Cory Benfield <<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
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- \* Added abstraction for granular control of request fields
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- \* Support for non-ASCII header parameters
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
- \* Danilo @dbrgn <<https://dbrgn.ch/>>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module

- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
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- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
  - \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <<https://github.com/jschneier>>
  - \* HTTPHeaderDict and associated tests and docs
  - \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <<http://tahia.tk/>>
  - \* Added Timeout examples in docs
  
- \* Arthur Grunseid <<https://grunseid.com>>
  - \* source\_address support and tests (with <https://github.com/bui>)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
  - \* PEP8 Compliance and Linting
  - \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
  - \* Support for standard library io module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
  - \* Google App Engine documentation
  
- \* Aaron Meurer <asmeurer@gmail.com>
  - \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
  - \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
  - \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](https://github.com/sornars.com)>
  - \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <alex.gaynor@gmail.com>
  - \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
  - \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <<https://github.com/tlynn>>
  - \* Respect the warning preferences at import.



- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>
- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
- \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
- \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <jesse@jesseshapiro.net>
- \* Various character-encoding fixes/tweaks
- \* Disabling IPv6 DNS when IPv6 connections not supported

- \* David Foster <http://dafoster.net/>
- \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
- \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
- \* History list to Retry object.
- \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.

- \* Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- \* Remove Authorization header regardless of case when redirecting to cross-site
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.381 squashfs 4.4

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## 1.383 user-home 1.1.1

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47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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Version 3, 29 June 2007

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## 1.387 postcss-value-parser 3.3.0

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# 1.397 isodate 0.6.0

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Metadata-Version: 1.1

Name: isodate

Version: 0.6.0

Summary: An ISO 8601 date/time/duration parser and formatter

Home-page: <https://github.com/gweis/isodate/>

Author: Gerhard Weis

Author-email: [gerhard.weis@proclos.com](mailto:gerhard.weis@proclos.com)

License: BSD

Description:

ISO 8601 date/time parser

=====

.. image:: <https://travis-ci.org/gweis/isodate.svg?branch=master>

:target: <https://travis-ci.org/gweis/isodate>

:alt: Travis-CI

.. image:: <https://coveralls.io/repos/gweis/isodate/badge.svg?branch=master>



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```

This module implements ISO 8601 date, time and duration parsing. The implementation follows ISO8601:2004 standard, and implements only date/time representations mentioned in the standard. If something is not mentioned there, then it is treated as non existent, and not as an allowed option.

For instance, ISO8601:2004 never mentions 2 digit years. So, it is not intended by this module to support 2 digit years. (while it may still be valid as ISO date, because it is not explicitly forbidden.) Another example is, when no time zone information is given for a time, then it should be interpreted as local time, and not UTC.

As this module maps ISO 8601 dates/times to standard Python data types, like `*date*`, `*time*`, `*datetime*` and `*timedelta*`, it is not possible to convert all possible ISO 8601 dates/times. For instance, dates before 0001-01-01 are not allowed by the Python `*date*` and `*datetime*` classes. Additionally fractional seconds are limited to microseconds. That means if the parser finds for instance nanoseconds it will round it to microseconds.

## Documentation

-----

Currently there are four parsing methods available.

- \* `parse_time`:  
parses an ISO 8601 time string into a `*time*` object
- \* `parse_date`:  
parses an ISO 8601 date string into a `*date*` object
- \* `parse_datetime`:  
parses an ISO 8601 date-time string into a `*datetime*` object
- \* `parse_duration`:  
parses an ISO 8601 duration string into a `*timedelta*` or `*Duration*` object.
- \* `parse_tzinfo`:  
parses the time zone info part of an ISO 8601 string into a `*tzinfo*` object.

As ISO 8601 allows to define durations in years and months, and `*timedelta*` does not handle years and months, this module provides a `*Duration*` class,

which can be used almost like a `*timedelta*` object (with some limitations). However, a `*Duration*` object can be converted into a `*timedelta*` object.

There are also ISO formatting methods for all supported data types. Each `*xxx_isoformat*` method accepts a format parameter. The default format is always the ISO 8601 expanded format. This is the same format used by `*datetime.isoformat*`:

`* time_isoformat:`

Intended to create ISO time strings with default format

`*hh:mm:ssZ*`.

`* date_isoformat:`

Intended to create ISO date strings with default format

`*yyyy-mm-dd*`.

`* datetime_isoformat:`

Intended to create ISO date-time strings with default format

`*yyyy-mm-ddThh:mm:ssZ*`.

`* duration_isoformat:`

Intended to create ISO duration strings with default format

`*PnnYnnMnnDTnnHnnMnnS*`.

`* tz_isoformat:`

Intended to create ISO time zone strings with default format

`*hh:mm*`.

`* strftime:`

A re-implementation mostly compatible with Python's `*strftime*`, but supports only those format strings, which can also be used for dates prior 1900. This method also understands how to format `*datetime*` and `*Duration*` instances.

Installation:

-----

This module can easily be installed with Python standard installation methods.

Either use `*python setup.py install*` or in case you have `*setuptools*` or `*distribute*` available, you can also use `*easy_install*`.

Limitations:

-----

`* The parser accepts several date/time representation which should be invalid according to ISO 8601 standard.`

1. for date and time together, this parser accepts a mixture of basic and extended format. e.g. the date could be in basic format, while the time is accepted in extended format. It also allows short dates and times in date-time strings.
2. For incomplete dates, the first day is chosen. e.g. 19th century results in a date of 1901-01-01.

3. negative `*Duration*` and `*timedelta*` value are not fully supported yet.

Further information:

-----

The doc strings and unit tests should provide rather detailed information about the methods and their limitations.

The source release provides a `*setup.py*` script, which can be used to run the unit tests included.

Source code is available at `<http://github.com/gweis/isodate>`_``.

## CHANGES

=====

0.6.0 (2017-10-13)

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- support incomplete month date (Fabien Loffredo)
- rely on duck typing when doing duration maths
- support ':' as separator in fractional time zones (usrenmae)

0.5.4 (2015-08-06)

-----

- Fix parsing of Periods (Fabien Bochu)
- Make Duration objects hashable (Geoffrey Fairchild)
- Add multiplication to duration (Reinoud Elhorst)

0.5.1 (2014-11-07)

-----

- fixed pickling of Duration objects
- raise ISO8601Error when there is no 'T' separator in datetime strings (Adrian Coveney)

0.5.0 (2014-02-23)

-----

- ISO8601Error are subclasses of ValueError now (Michael Hrivnak)
- improve compatibility across various python variants and versions
- raise exceptions when using fractional years and months in date maths with durations
- renamed method `todatetime` on Duration objects to `totimedelta`

0.4.9 (2012-10-30)

-----

- support pickling FixedOffset instances
- make sure parsed fractional seconds are in microseconds
- add leading zeros when formatting microseconds (Jarom Loveridge)

0.4.8 (2012-05-04)

-----

- fixed incompatibility of unittests with python 2.5 and 2.6 (runs fine on 2.7 and 3.2)

0.4.7 (2012-01-26)

-----

- fixed tzinfo formatting (never pass None into tzinfo.utcoffset())

0.4.6 (2012-01-06)

-----

- added Python 3 compatibility via 2to3

0.4.5 (2012-01-06)

-----

- made setuptools dependency optional

0.4.4 (2011-04-16)

-----

- Fixed formatting of microseconds for datetime objects

0.4.3 (2010-10-29)

-----

- Fixed problem with %P formatting and fractions (supplied by David Brooks)

0.4.2 (2010-10-28)

-----

- Implemented unary - for Duration (supplied by David Brooks)
- Output fractional seconds with '%P' format. (partly supplied by David Brooks)

0.4.1 (2010-10-13)

-----

- fixed bug in comparison between timedelta and Duration.
- fixed precision problem with microseconds (reported by Tommi Virtanen)

0.4.0 (2009-02-09)

-----

- added method to parse ISO 8601 time zone strings
- added methods to create ISO 8601 conforming strings

0.3.0 (2009-1-05)

-----

- Initial release

TODOs

=====

This to do list contains some thoughts and ideas about missing features, and parts to think about, whether to implement them or not. This list is probably not complete.

Missing features:

-----

- \* time formatting does not allow to create fractional representations.
- \* parser for ISO intervals.
- \* currently microseconds are always padded to a length of 6 characters. trailing 0s should be optional

Documentation:

-----

- \* parse\_datetime:
  - complete documentation to show what this function allows, but ISO forbids. and vice versa.
  - support other separators between date and time than 'T'
- \* parse\_date:
  - yeardigits should be always greater than 4
  - dates before 0001-01-01 are not supported
- \* parse\_duration:
  - alternative formats are not fully supported due to parse\_date restrictions
  - standard duration format is fully supported but not very restrictive.

- \* Duration:
  - support fractional years and month in calculations
  - implement w3c order relation? ([^ <http://www.w3.org/TR/xmlschema-2/#duration-order>`\\_\)](http://www.w3.org/TR/xmlschema-2/#duration-order))
  - refactor to have duration mathematics only at one place.
  - localize \_\_str\_\_ method (does timedelta do this?)
  - when is a Duration negative?
  - normalize Durations. months [00-12] and years ]-inf,+inf[

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

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Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

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## 1.398 pyyaml 5.3

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## 1.416 slash 1.0.0

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```

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Metadata-Version: 1.1

Name: xlrd

Version: 1.1.0

Summary: Library for developers to extract data from Microsoft Excel (tm) spreadsheet files

Home-page: <http://www.python-excel.org/>

Author: John Machin

Author-email: [sjmachin@lexicon.net](mailto:sjmachin@lexicon.net)

License: BSD

Description: Extract data from Excel spreadsheets (.xls and .xlsx, versions 2.0 onwards) on any platform. Pure Python (2.7, 3.4+). Strong support for Excel dates. Unicode-aware.

Keywords: xls,excel,spreadsheet,workbook

Platform: Any platform -- don't need Windows

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Programming Language :: Python

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```

```
* /opt/cola/permits/1111648362_1606949012.43/0/xlrd-1-1-0-tar-gz/xlrd-1.1.0/tests/test_xldate.py
```

# 1.424 pickleshare 0.7.4

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## 1.425 libglib 2.62.4

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# 1.433 strict-rfc3339 0.7

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## 1.440 babel-plugin-transform-es2015-for-of 6.23.0

## 1.441 service-identity 18.1.0

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\*

\* <http://docs.jquery.com/QUnit>

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* Date: 5/15/2008
* @projectDescription Advanced and extensible data dumping for Javascript.
* @version 1.0.0
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* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/tests/qunit.js

```

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# URI.js

URI.js is an [RFC 3986](http://www.ietf.org/rfc/rfc3986.txt) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc). It is also compliant with the IRI ([RFC 3987](http://www.ietf.org/rfc/rfc3987.txt)), IDNA ([RFC 5890](http://www.ietf.org/rfc/rfc5890.txt)), IPv6 Address ([RFC 5952](http://www.ietf.org/rfc/rfc5952.txt)), IPv6 Zone Identifier ([RFC 6874](http://www.ietf.org/rfc/rfc6874.txt)) specifications.

URI.js has an extensive test suite, and works in all (Node.js, web) environments. It weighs in at 6.2kb (gzipped, 16kb deflated).

## API

### Parsing

```

URI.parse("uri://user:pass@example.com:123/one/two.three?q1=a1&q2=a2#body");
//returns:
//{
//  scheme : "uri",
//  userinfo : "user:pass",
//  host : "example.com",
//  port : 123,
//  path : "/one/two.three",
//  query : "q1=a1&q2=a2",
//  fragment : "body"
//}

```

### Serializing

```

URI.serialize({scheme : "http", host : "example.com", fragment : "footer"}) === "http://example.com/#footer"

```

### ### Resolving

```
URI.resolve("uri://a/b/c/d?q", "../g") === "uri://a/g"
```

### ### Normalizing

```
URI.normalize("HTTP://ABC.com:80/%7Esmith/home.html") === "http://abc.com/~smith/home.html"
```

### ### Comparison

```
URI.equal("example://a/b/c/%7Bfoo%7D", "eXAMPLE://a/./b/./b/%63/%7bfoo%7d") === true
```

### ### IP Support

//IPv4 normalization

```
URI.normalize("//192.068.001.000") === "//192.68.1.0"
```

//IPv6 normalization

```
URI.normalize("//[2001:0:0DB8::0:0001]") === "//[2001:0:db8::1]"
```

//IPv6 zone identifier support

```
URI.parse("//[2001:db8::7%25en1]");
```

//returns:

```
//{
```

```
// host : "2001:db8::7%en1"
```

```
//}
```

### ### IRI Support

//convert IRI to URI

```
URI.serialize(URI.parse("http://exampl.org/ros")) === "http://xn--exampl-gva.org/ros%C3%A9"
```

//convert URI to IRI

```
URI.serialize(URI.parse("http://xn--exampl-gva.org/ros%C3%A9"), {iri:true}) === "http://exampl.org/ros"
```

### ### Options

All of the above functions can accept an additional options argument that is an object that can contain one or more of the following properties:

\* ``scheme`` (string)

Indicates the scheme that the URI should be treated as, overriding the URI's normal scheme parsing behavior.

\* ``reference`` (string)

If set to ``suffix``, it indicates that the URI is in the suffix format, and the validator will use the option's ``scheme`` property to determine the URI's scheme.

\* `tolerant` (boolean, false)

If set to `true`, the parser will relax URI resolving rules.

\* `absolutePath` (boolean, false)

If set to `true`, the serializer will not resolve a relative `path` component.

\* `iri` (boolean, false)

If set to `true`, the serializer will unescape non-ASCII characters as per [RFC 3987](<http://www.ietf.org/rfc/rfc3987.txt>).

\* `unicodeSupport` (boolean, false)

If set to `true`, the parser will unescape non-ASCII characters in the parsed output as per [RFC 3987](<http://www.ietf.org/rfc/rfc3987.txt>).

\* `domainHost` (boolean, false)

If set to `true`, the library will treat the `host` component as a domain name, and convert IDNs (International Domain Names) as per [RFC 5891](<http://www.ietf.org/rfc/rfc5891.txt>).

### ## Scheme Extendable

URI.js supports inserting custom [scheme]([http://en.wikipedia.org/wiki/URI\\_scheme](http://en.wikipedia.org/wiki/URI_scheme)) dependent processing rules. Currently, URI.js has built in support for the following schemes:

- \* http \[[RFC 2616]([\\]](http://www.ietf.org/rfc/rfc2616.txt)\]
- \* https \[[RFC 2818]([\\]](http://www.ietf.org/rfc/rfc2818.txt)\]
- \* mailto \[[RFC 6068]([\\]](http://www.ietf.org/rfc/rfc6068.txt)\]
- \* urn \[[RFC 2141]([\\]](http://www.ietf.org/rfc/rfc2141.txt)\]
- \* urn:uuid \[[RFC 4122]([\\]](http://www.ietf.org/rfc/rfc4122.txt)\]

### ### HTTP Support

```
URI.equal("HTTP://ABC.COM:80", "http://abc.com/") === true
```

### ### Mailto Support

```
URI.parse("mailto:alpha@example.com,bravo@example.com?subject=SUBSCRIBE&body=Sign%20me%20up!");  
//returns:  
//{  
// scheme : "mailto",  
// to : ["alpha@example.com", "bravo@example.com"],  
// subject : "SUBSCRIBE",  
// body : "Sign me up!"
```



```
//}

URI.serialize({
  scheme : "mailto",
  to : ["alpha@example.com"],
  subject : "REMOVE",
  body : "Please remove me",
  headers : {
    cc : "charlie@example.com"
  }
}) ===
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"
```

### ### URN Support

```
URI.parse("urn:example:foo");
//returns:
//{
// scheme : "urn",
// nid : "example",
// nss : "foo",
//}
```

### #### URN UUID Support

```
URI.parse("urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6");
//returns:
//{
// scheme : "urn",
// nid : "example",
// uuid : "f81d4fae-7dec-11d0-a765-00a0c91e6bf6",
//}
```

### ## Usage

To load in a browser, use the following tag:

```
<script type="text/javascript" src="uri-js/dist/es5/uri.all.min.js"></script>
```

To load in a CommonJS (Node.js) environment, first install with npm by running on the command line:

```
npm install uri-js
```

Then, in your code, load it using:

```
const URI = require("uri-js");
```

If you are writing your code in ES6+ (ESNEXT) or TypeScript, you would load it using:

```
import * as URI from "uri-js";
```

Or you can load just what you need using named exports:

```
import { parse, serialize, resolve, resolveComponents, normalize, equal, removeDotSegments, pctEncChar, pctDecChars, escapeComponent, unescapeComponent } from "uri-js";
```

```
## Breaking changes
```

```
### Breaking changes from 3.x
```

URN parsing has been completely changed to better align with the specification. Scheme is now always `urn`, but has two new properties: `nid` which contains the Namespace Identifier, and `nss` which contains the Namespace Specific String. The `nss` property will be removed by higher order scheme handlers, such as the UUID URN scheme handler.

The UUID of a URN can now be found in the `uuid` property.

```
### Breaking changes from 2.x
```

URI validation has been removed as it was slow, exposed a vulnerability, and was generally not useful.

```
### Breaking changes from 1.x
```

The `errors` array on parsed components is now an `error` string.

```
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```

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/**
```

```
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```

```
*
```

```
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Found in path(s):

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No license file was found, but licenses were detected in source scan.

```
/** @license URI.js v4.2.1 (c) 2011 Gary Court. License: http://github.com/garycourt/uri-js */
```

Found in path(s):

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No license file was found, but licenses were detected in source scan.

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characters\n\t\tPRIVATE\$\$ = isIRI ? \"[\\uE000-\\uF8FF]\" : \"[]\", //subset\n\t\tUNRESERVED\$\$ = merge(ALPHA\$\$, DIGIT\$\$, \"[\\-\\.\\\_~]\", UCCHAR\$\$),\n\t\tSCHEME\$ = subexp(ALPHA\$\$ + merge(ALPHA\$\$, DIGIT\$\$, \"[\\+|-|.|]\")) + \"\*\\\", \n\t\tUSERINFO\$ = subexp(subexp(PCT\_ENCODED\$ + \"|\" + merge(UNRESERVED\$\$, SUB\_DELIM\$\$, \"[\\:]\")) + \"\*\\\"), \n\t\tDEC\_OCTETS\$ = subexp(subexp(\"25[0-5]\")) + \"|\" + subexp(\"2[0-4]\" + DIGIT\$\$) + \"|\" + subexp(\"1\" + DIGIT\$\$ + DIGIT\$\$) + \"|\" + subexp(\"[1-9]\" + DIGIT\$\$) + \"|\" + DIGIT\$\$), \n\t\tDEC\_OCTET\_RELAXED\$ = subexp(subexp(\"25[0-5]\")) + \"|\" + subexp(\"2[0-4]\" + DIGIT\$\$) + \"|\" + subexp(\"1\" + DIGIT\$\$ + DIGIT\$\$) + \"|\" + subexp(\"0?[1-9]\" + DIGIT\$\$) + \"|0?0?\" + DIGIT\$\$), //relaxed parsing rules\n\t\tIPV4ADDRESS\$ = subexp(DEC\_OCTET\_RELAXED\$ + \"|\" + DEC\_OCTET\_RELAXED\$ + \"|\" + DEC\_OCTET\_RELAXED\$ + \"|\" + DEC\_OCTET\_RELAXED\$), \n\t\tH16\$ = subexp(HEXDIG\$\$ + \"{1,4}\"), \n\t\tLS32\$ = subexp(subexp(H16\$ + \"|\" + H16\$) + \"|\" + IPV4ADDRESS\$), \n\t\tIPV6ADDRESS1\$ = subexp(subexp(H16\$ + \"|\" + \"{6}\" + LS32\$), // 6( h16 \":\" ) ls32\n\t\tIPV6ADDRESS2\$ = subexp( \"|\" + subexp(H16\$ + \"|\" + \"{5}\" + LS32\$), // \"::\" 5( h16 \":\" ) ls32\n\t\tIPV6ADDRESS3\$ = subexp(subexp( H16\$) + \"|\" + subexp(H16\$ + \"|\" + \"{4}\" + LS32\$), // [ h16 \":\" 4( h16 \":\" ) ls32\n\t\tIPV6ADDRESS4\$ = subexp(subexp(subexp(H16\$ + \"|\" + \"{0,1}\" + H16\$) + \"|\" + subexp(H16\$ + \"|\" + \"{3}\" + LS32\$), // [\*1( h16 \":\" ) h16 ] \":\" 3( h16 \":\" ) ls32\n\t\tIPV6ADDRESS5\$ = subexp(subexp(subexp(H16\$ + \"|\" + \"{0,2}\" + H16\$) + \"|\" + subexp(H16\$ + \"|\" + \"{2}\" + LS32\$), // [\*2( h16 \":\" ) h16 ] \":\" 2( h16 \":\" ) ls32\n\t\tIPV6ADDRESS6\$ = subexp(subexp(subexp(H16\$ + \"|\" + \"{0,3}\" + H16\$) + \"|\" + H16\$ + \"|\" + LS32\$), // [\*3( h16 \":\" ) h16 ] \":\" h16 \":\" ls32\n\t\tIPV6ADDRESS7\$ = subexp(subexp(subexp(H16\$ + \"|\" + \"{0,4}\" + H16\$) + \"|\" + LS32\$), // [\*4( h16 \":\" ) h16 ] \":\" ls32\n\t\tIPV6ADDRESS8\$ = subexp(subexp(subexp(H16\$ + \"|\" + \"{0,5}\" + H16\$) + \"|\" + H16\$), // [\*5( h16 \":\" ) h16 ] \":\" h16\n\t\tIPV6ADDRESS9\$ = subexp(subexp(subexp(H16\$ + \"|\" + \"{0,6}\" + H16\$) + \"|\" + \"|\"), // [\*6( h16 \":\" ) h16 ] \":\" \n\t\tIPV6ADDRESS\$ = subexp([IPV6ADDRESS1\$, IPV6ADDRESS2\$, IPV6ADDRESS3\$, IPV6ADDRESS4\$, IPV6ADDRESS5\$, IPV6ADDRESS6\$, IPV6ADDRESS7\$, IPV6ADDRESS8\$, IPV6ADDRESS9\$].join(\"|\")), \n\t\tZONEID\$ = subexp(subexp(UNRESERVED\$\$ + \"|\" + PCT\_ENCODED\$) + \"+\"), //RFC 6874\n\t\tIPV6ADDRZ\$ = subexp(IPV6ADDRESS\$ + \"|\" + \"%25\" + ZONEID\$), //RFC 6874\n\t\tIPV6ADDRZ\_RELAXED\$ = subexp(IPV6ADDRESS\$ + subexp(\"|\" + \"%25\" + \"(?:\" + HEXDIG\$\$ + \"|\" + \"|)\")) + ZONEID\$), //RFC 6874, with relaxed parsing rules\n\t\tIPVFUTURE\$ = subexp(\"[vV]\" + HEXDIG\$\$ + \"|\" + \"|\" + merge(UNRESERVED\$\$, SUB\_DELIM\$\$, \"[\\:]\")) + \"+\"), \n\t\tIP\_LITERAL\$ = subexp(\"|\" + subexp(IPV6ADDRZ\_RELAXED\$ + \"|\" + IPV6ADDRESS\$ + \"|\" + IPVFUTURE\$) + \"|\"), //RFC 6874\n\t\tREG\_NAME\$ = subexp(subexp(PCT\_ENCODED\$ + \"|\" + merge(UNRESERVED\$\$, SUB\_DELIM\$\$)) + \"\*\\\"), \n\t\tHOST\$ = subexp(IP\_LITERAL\$ + \"|\" + IPV4ADDRESS\$ + \"(?:\" + REG\_NAME\$ + \"|)\" + \"|\" + REG\_NAME\$), \n\t\tPORT\$ = subexp(DIGIT\$\$ + \"\*\\\"), \n\t\tAUTHORITY\$ = subexp(subexp(USERINFO\$ + \"@\" + \"|\" + HOST\$ + subexp(\"|\" + PORT\$) + \"|\"), \n\t\tPCHAR\$ = subexp(PCT\_ENCODED\$ + \"|\" + merge(UNRESERVED\$\$, SUB\_DELIM\$\$, \"[\\@]\")), \n\t\tSEGMENT\$ = subexp(PCHAR\$ + \"\*\\\"), \n\t\tSEGMENT\_NZ\$ = subexp(PCHAR\$ + \"+\"), \n\t\tSEGMENT\_NZ\_NC\$ = subexp(subexp(PCT\_ENCODED\$ + \"|\" + merge(UNRESERVED\$\$, SUB\_DELIM\$\$, \"[\\@]\")) + \"+\"), \n\t\tPATH\_ABEMPTY\$ = subexp(subexp(\"|\" + SEGMENT\$) + \"\*\\\"), \n\t\tPATH\_ABSOLUTE\$ = subexp(\"|\" + subexp(SEGMENT\_NZ\$ + PATH\_ABEMPTY\$) + \"|\"), //simplified\n\t\tPATH\_NOSCHEMES\$ = subexp(SEGMENT\_NZ\_NC\$ + PATH\_ABEMPTY\$), //simplified\n\t\tPATH\_ROOTLESS\$ = subexp(SEGMENT\_NZ\$ + PATH\_ABEMPTY\$), //simplified\n\t\tPATH\_EMPTY\$ = \"(?:\" + PCHAR\$ + \"|)\"), \n\t\tPATH\$ = subexp(PATH\_ABEMPTY\$ + \"|\" + PATH\_ABSOLUTE\$ + \"|\" + PATH\_NOSCHEMES\$ + \"|\" + PATH\_ROOTLESS\$ + \"|\" + PATH\_EMPTY\$), \n\t\tQUERY\$ = subexp(subexp(PCHAR\$ + \"|\" + merge(\"[\\|\\?]\", PRIVATE\$\$)) + \"\*\\\"), \n\t\tFRAGMENTS\$ = subexp(subexp(PCHAR\$ + \"|\" + \"[\\|\\|\\|\\|\\|\\|\\|]\")) + \"\*\\\"), \n\t\tHIER\_PART\$ = subexp(subexp(\"|\" + AUTHORITY\$ + PATH\_ABEMPTY\$) + \"|\" +

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PATH_ABSOLUTE$ + "|" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$),\n\tURI$ = subexp(SCHEMES$ +
"|||:" + HIER_PART$ + subexp("|||?" + QUERY$) + "?" + subexp("|||#" + FRAGMENTS$) +
"?"),\n\tRELATIVE_PART$ = subexp(subexp("|||/" + AUTHORITY$ + PATH_ABEMPTY$) + "|" +
PATH_ABSOLUTE$ + "|" + PATH_NOSCHEMES$ + "|" + PATH_EMPTY$),\n\tRELATIVE$ =
subexp(RELATIVE_PART$ + subexp("|||?" + QUERY$) + "?" + subexp("|||#" + FRAGMENTS$) +
"?"),\n\tURI_REFERENCES$ = subexp(URI$ + "|" + RELATIVES$),\n\tABSOLUTE_URI$ =
subexp(SCHEMES$ + "|||:" + HIER_PART$ + subexp("|||?" + QUERY$) + "?"),\n\tGENERIC_REF$ =
"^((" + SCHEMES$ + ")|||:" + subexp(subexp("|||/" + subexp("(" + USERINFO$ + ")@") + "?(" +
HOST$ + ")") + subexp("|||:" + PORT$ + ")") + "?") + "?(" + PATH_ABEMPTY$ + "|" +
PATH_ABSOLUTE$ + "|" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$ + ")") + subexp("|||?" +
QUERY$ + ")") + "?" + subexp("|||#(" + FRAGMENTS$ + ")") + "?$",\n\tRELATIVE_REF$ = "^(0)" +
subexp(subexp("|||/" + subexp("(" + USERINFO$ + ")@") + "?(" + HOST$ + ")") + subexp("|||:" +
PORT$ + ")") + "?") + "?(" + PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ + "|" +
PATH_NOSCHEMES$ + "|" + PATH_EMPTY$ + ")") + subexp("|||?" + QUERY$ + ")") + "?" +
subexp("|||#(" + FRAGMENTS$ + ")") + "?$",\n\tABSOLUTE_REF$ = "^((" + SCHEMES$ + ")|||:" +
subexp(subexp("|||/" + subexp("(" + USERINFO$ + ")@") + "?(" + HOST$ + ")") + subexp("|||:" +
PORT$ + ")") + "?") + "?(" + PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ + "|" +
PATH_ROOTLESS$ + "|" + PATH_EMPTY$ + ")") + subexp("|||?" + QUERY$ + ")") +
"?" + "$",\n\tSAMEDOC_REF$ = "^((" + subexp("|||#(" + FRAGMENTS$ + ")") +
"?" + "$",\n\tAUTHORITY_REF$ = "^((" + USERINFO$ + ")@") + "?(" + HOST$ + ")") +
subexp("|||:" + PORT$ + ")") + "?$",\n\treturn { \n\t\tNOT_SCHEME : new RegExp(merge("[^]",
ALPHA$$, DIGIT$$, "[|+||-||.]", "g"), \n\t\tNOT_USERINFO : new RegExp(merge("[^%||:]]",
UNRESERVED$$, SUB_DELIMS$$, "g"), \n\t\tNOT_HOST : new RegExp(merge("[^%|||/||:]]",
UNRESERVED$$, SUB_DELIMS$$, "g"), \n\t\tNOT_PATH : new RegExp(merge("[^%||/||:|@]",
UNRESERVED$$, SUB_DELIMS$$, "g"), \n\t\tNOT_PATH_NOSCHEM : new
RegExp(merge("[^%||/||:|@]", UNRESERVED$$, SUB_DELIMS$$, "g"), \n\t\tNOT_QUERY : new
RegExp(merge("[^%]", UNRESERVED$$, SUB_DELIMS$$, "[|:|@||/||?]", IPRIVATE$$,
"g"), \n\t\tNOT_FRAGMENT : new RegExp(merge("[^%]", UNRESERVED$$, SUB_DELIMS$$,
"[|:|@||/||?]", "g"), \n\t\tESCAPE : new RegExp(merge("[^]", UNRESERVED$$, SUB_DELIMS$$,
"g"), \n\t\tUNRESERVED : new RegExp(UNRESERVED$$, "g"), \n\t\tOTHER_CHARS : new
RegExp(merge("[^%]", UNRESERVED$$, RESERVED$$, "g"), \n\t\tPCT_ENCODED : new
RegExp(PCT_ENCODED$, "g"), \n\t\tIPV4_ADDRESS : new RegExp("^((" + IPV4_ADDRESS$ +
")$"), \n\t\tIPV6_ADDRESS : new RegExp("^(\\[?(" + IPV6_ADDRESS$ + ")" +
subexp(subexp("|||25|||%(?!)" + HEXDIG$$ + "{2}")) + "(" + ZONEID$ + ")") + "|||]?") //RFC 6874,
with relaxed parsing rules\n\t;\n\n\nexport default buildExps(false);\n\n,"use strict";\n\n/** Highest positive signed
32-bit float value *\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n\n/** Bootstring parameters
*\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst initialBias =
72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // "\x2D"\n\n/** Regular expressions *\nconst
regexPunycode = /^xn--/;\nconst regexNonASCII = /[^\x0-\x7E]/; // non-ASCII chars\nconst regexSeparators =
/[\x2E\u3002\uFF0E\uFF61]/g; // RFC 3490 separators\n\n/** Error messages *\nconst errors = { \n\t'overflow':
'Overflow: input needs wider integers to process', \n\t'not-basic': 'Illegal input >= 0x80 (not a basic code
point)', \n\t'invalid-input': 'Invalid input'\n};\n\n/** Convenience shortcuts *\nconst baseMinusTMin = base -
tMin;\nconst floor = Math.floor;\nconst stringFromCharCode = String.fromCharCode;\n\n*-----
*-----*\n\n/** A generic error utility function.\n * @private\n * @param
{String} type The error type.\n * @returns {Error} Throws a `RangeError` with the applicable error message.\n
*\nfunction error(type) {\n\tthrow new RangeError(errors[type]);\n}\n\n/** A generic `Array#map` utility
function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The
function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the

```

```

callback function.\n * \nfunction map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--)\n\t\tresult[length] = fn(array[length]);\n\treturn result;\n}\n\n/**\n * A simple `Array#map`-like wrapper to\n * work with domain name strings or email\n * addresses.\n * @private\n * @param {String} domain The domain\n * name or email address.\n * @param {Function} callback The function that gets called for every\n * character.\n * @returns {Array} A new string of characters returned by the callback\n * function.\n * \nfunction\n * mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email\n\t\taddresses, only the domain name should be punycode'd. Leave\n\t\tthe local part (i.e. everything up to `@`)\n\t\tintact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t\t// Avoid `split(regex)` for IE8 compatibility. See\n\t\t#17.\n\t\tstring = string.replace(regexSeparators, '\\x2E');\n\t\tconst labels = string.split('.');\n\t\tconst encoded =\n\t\tmap(labels, fn).join('.');\n\t\treturn result + encoded;\n\t}\n\n/**\n * Creates an array containing the numeric code\n * points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will\n * convert a pair of surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code\n * point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see\n * <https://mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n * \nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile\n * (counter < length) {\n\t\tconst value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <=\n * 0xDBFF && counter < length) {\n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\tconst extra =\n * string.charCodeAt(counter++);\n\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low\n * surrogate.\n\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n\t\t\t\t} else {\n\t\t\t\t// It's an\n * unmatched surrogate; only append this code unit, in case the\n * next code unit is the high surrogate of a\n * surrogate pair.\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t}\n\t\toutput.push(value);\n\t\t}\n\treturn output;\n}\n\n/**\n * Creates a string based on an array of numeric\n * code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param\n * {Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n * \nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point into a\n * digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric code\n * point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing integers)\n * in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n * \nconst basicToDigit =\n * function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif (codePoint - 0x41 <\n * 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint -\n * 0x61;\n\t}\n\treturn base;\n};\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see `basicToDigit()`\n * @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns {Number} The\n * basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be in the range\n * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is used. The behavior\n * is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n * \nconst digitToBasic = function(digit,\n * flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII 0..9\n\treturn digit + 22 + 75 * (digit < 26) -\n * ((flag != 0) << 5);\n};\n\n/**\n * Bias adaptation function as per section 3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n * \nconst adapt = function(delta, numPoints,\n * firstTime) {\n\tlet k = 0;\n\tlet delta = firstTime ? floor(delta / damp) : delta >> 1;\n\tlet delta += floor(delta /\n * numPoints);\n\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tlet delta = floor(delta\n * / baseMinusTMin);\n\t\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n\t}\n\n/**\n * Converts a\n * Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n * @param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of\n * Unicode symbols.\n * \nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst output = [];\n\tconst\n * inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\t// Handle the basic code\n * points: let `basic` be the number of input code\n * points before the last delimiter, or `0` if there is none, then\n * copy\n * the first basic code points to the output.\n\tlet basic = input.lastIndexOf(delimiter);\n\tif (basic < 0)

```



parts of the domain name will be converted, i.e. it doesn't matter if you call it with a domain that's already in ASCII.

`@memberOf punycode` `@param {String}` input The domain name or email address to convert, as a Unicode string.

`@returns {String}` The Punycode representation of the given domain name or email address.

```

const toASCII = function(input) {
  return mapDomain(input, function(string) {
    return regexNonASCII.test(string) ? 'xn--' + encode(string) : string;
  });
};

```

-----

-----

`Define the public API`

```

const punycode = {
  version: '2.1.0',
  An object of methods to convert from JavaScript's internal character representation (UCS-2) to Unicode code points, and back.
  @see <https://mathiasbynens.be/notes/javascript-encoding>
  @memberOf punycode
  @type Object
  ^\n\t'ucs2': {
    decode: decode,
    encode: encode,
    toASCII: toASCII,
    toUnicode: toUnicode;
  },
  \n\texport default punycode;
}

```

`URI.js` `@fileoverview` An RFC 3986 compliant, scheme extendable URI parsing/validating/resolving library for JavaScript.

`@author` <a href="mailto:gary.court@gmail.com">Gary Court</a>

`@see` <http://github.com/garycourt/uri-js>

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```

import URI_PROTOCOL from './regexp-uri';
import IRI_PROTOCOL from './regexp-iri';
import punycode from 'punycode';
import { toUpperCase, typeOf, assign } from './util';
export interface URIComponents {
  scheme?: string;
  userinfo?: string;
  host?: string;
  port?: number | string;
  path?: string;
  query?: string;
  fragment?: string;
  reference?: string;
  error?: string;
}
export interface URIOptions {
  scheme?: string;
  reference?: string;
  tolerant?: boolean;
  absolutePath?: boolean;
  iri?: boolean;
  unicodeSupport?: boolean;
  domainHost?: boolean;
}
export interface URISchemeHandler<Components> extends URIComponents {
  parse(components: ParentComponents, options: Options): Components;
  serialize(components: Components, options: Options): ParentComponents;
  unicodeSupport?: boolean;
  domainHost?: boolean;
  absolutePath?: boolean;
}
export interface URIRegExps {
  NOT_SCHEME : RegExp;
  NOT_HOST : RegExp;
  NOT_PATH : RegExp;
  NOT_PATH_NOSCHEME : RegExp;
  NOT_QUERY : RegExp;
  NOT_FRAGMENT : RegExp;
  ESCAPE : RegExp;
  UNRESERVED : RegExp;
  OTHER_CHARS : RegExp;
  PCT_ENCODED : RegExp;
  IPV4ADDRESS : RegExp;
  IPV6ADDRESS : RegExp;
}
export const SCHEMES: {[scheme:string]: URISchemeHandler} = {};
export function pctEncChar(chr:string):string {
  const c = chr.charCodeAt(0);
  let e:string;
  if (c < 16) e = "%0" + c.toString(16).toUpperCase();
  else if (c < 128) e = "%" + c.toString(16).toUpperCase();
  else if (c < 65536) e = "%0" + c.toString(16).toUpperCase();
  else e = "%00" + c.toString(16).toUpperCase();
}

```

```

< 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) |
128).toString(16).toUpperCase();\n\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >>
6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();\n\treturn
e;\n}\n\nexport function pctDecChars(str:string):string {\n\tlet newStr = \"\";\n\tlet i = 0;\n\tconst il =
str.length;\n\twhile (i < il) {\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);\n\t\tif (c < 128) {\n\t\t\tnewStr +=
String.fromCharCode(c);\n\t\t\ti += 3;\n\t\t}\n\t\telse if (c >= 194 && c < 224) {\n\t\t\tif ((il - i) >= 6) {\n\t\t\t\tconst
c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\tnewStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));\n\t\t\t\t}
else {\n\t\t\t\t\tnewStr += str.substr(i, 6);\n\t\t\t\t\ti += 6;\n\t\t\t\t}\n\t\t\telse if (c >= 224) {\n\t\t\t\t\tif ((il - i) >= 9)
{\n\t\t\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);\n\t\t\t\t\t\tconst c3 = parseInt(str.substr(i + 7, 2), 16);\n\t\t\t\t\t\tnewStr
+= String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));\n\t\t\t\t\t\t} else {\n\t\t\t\t\t\t\tnewStr +=
str.substr(i, 9);\n\t\t\t\t\t\t\ti += 9;\n\t\t\t\t\t\t}\n\t\t\t\t\t\telse {\n\t\t\t\t\t\t\tnewStr += str.substr(i, 3);\n\t\t\t\t\t\t\ti +=
3;\n\t\t\t\t\t\t}\n\t\t\t\t}\n\t\t}\n\t\treturn newStr;\n}\n\nfunction _normalizeComponentEncoding(components:URIComponents,
protocol:URIScheme) {\n\tfunction decodeUnreserved(str:string):string {\n\t\tconst decStr =
pctDecChars(str);\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);\n\t}\n\tif (components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");\n\tif (components userinfo !==
undefined) components userinfo = String(components userinfo).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.host !== undefined) components.host =
String(components.host).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ?
protocol.NOT_PATH : protocol.NOT_PATH_NOScheme), pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\tif (components.query !== undefined) components.query =
String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY,
pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);\n\tif (components.fragment !== undefined)
components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);\n\treturn components;\n}\n\nfunction _stripLeadingZeros(str:string):string {\n\treturn
str.replace(/^*(.*)/, \"$1\") || \"0\";\n}\n\nfunction _normalizeIPv4(host:string, protocol:URIScheme):string
{\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];\n\tconst [, address] = matches;\n\tif (address)
{\n\t\treturn address.split(\".\").map(_stripLeadingZeros).join(\".\");\n\t} else {\n\t\treturn host;\n\t}\n}\n\nfunction
_normalizeIPv6(host:string, protocol:URIScheme):string {\n\tconst matches =
host.match(protocol.IPV6ADDRESS) || [];\n\tconst [, address, zone] = matches;\n\tif (address) {\n\t\tconst [last,
first] = address.toLowerCase().split(\"::\").reverse();\n\t\tconst firstFields = first ?
first.split(\":\").map(_stripLeadingZeros) : [];\n\t\tconst lastFields =
last.split(\":\").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address =
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 :
8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\t\tfor
(let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || \"\";\n\t\t}\n\t\tif
(isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t}\n\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
index) => {\n\t\t\tif (!field || field === \"0\") {\n\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\tif (lastLongest
&& lastLongest.index + lastLongest.length === index) {\n\t\t\t\t\tlastLongest.length++;\n\t\t\t\t} else
{\n\t\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t\t}\n\t\t\t}\n\t\t\tconst longestZeroFields =
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\t\t\tlet newHost:string;\n\t\t\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\t\t\tconst newFirst = fields.slice(0, longestZeroFields.index);

```





```

protocol).replace(protocol.IPV6ADDRESS, (_, $1, $2) => `[${$1} + ${$2 ? "%25" + $2 : ""} + ]`);
(typeof components.port === "number")
{
  uriTokens.push(":");
  uriTokens.push(components.port.toString(10));
  return uriTokens.length ?
  uriTokens.join("") : undefined;
}
const RDS1 = /^\\.\\.?.?\\/;
const RDS2 = /^\\|\\.(\\|$/);
const RDS3 =
/^\\|\\.(\\|$/);
const RDS4 = /^\\.\\.?.?$/;
const RDS5 = /^\\/?(?:\\.\\n)*?(?=\\|$/);
export function
removeDotSegments(input:string):string {
  const output:Array<string> = [];
  while (input.length) {
    if
(input.match(RDS1)) {
      input = input.replace(RDS1, "\\");
    } else if (input.match(RDS2)) {
      input =
input.replace(RDS2, "\\");
    } else if (input.match(RDS3)) {
      input = input.replace(RDS3,
      "\\");
      output.pop();
    } else if (input === "." || input === "..") {
      input = "";
    } else {
      const
im = input.match(RDS5);
      if (im) {
        const s = im[0];
        input =
input.slice(s.length);
        output.push(s);
      } else {
        throw new Error("Unexpected dot segment
condition");
      }
    }
  }
  return output.join("");
}
export function
serialize(components:URISchemeComponents, options:URISchemeOptions = {}):string {
  const protocol = (options.iri ?
  IRI_PROTOCOL : URI_PROTOCOL);
  const uriTokens:Array<string> = [];
  //find scheme handler
  const
schemeHandler = SCHEMES[(options.scheme || components.scheme || "").toLowerCase()];
  //perform scheme
specific serialization
  if (schemeHandler && schemeHandler.serialize) {
    schemeHandler.serialize(components,
options);
  }
  if (components.host) {
    //if host component is an IPv6 address
    if (protocol.IPV6ADDRESS.test(components.host)) {
      //TODO: normalize IPv6 address as per RFC
      5952
    }
    //if host component is a domain name
    else if (options.domainHost || (schemeHandler &&
schemeHandler.domainHost)) {
      //convert IDN via punycode
      try {
        components.host = (!options.iri
? punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase()) :
punycode.toUnicode(components.host));
      } catch (e) {
        components.error = components.error || "Host's
domain name can not be converted to " + (!options.iri ? "ASCII" : "Unicode") + " via punycode: " +
e;
      }
      //normalize encoding
      normalizeComponentEncoding(components, protocol);
      if (options.reference !== "suffix" && components.scheme) {
        uriTokens.push(components.scheme);
        uriTokens.push(":");
        const authority =
_recomposeAuthority(components, options);
        if (authority !== undefined) {
          if (options.reference !==
"suffix") {
            uriTokens.push("//");
            uriTokens.push(authority);
            if (components.path &&
components.path.charAt(0) !== "/") {
              uriTokens.push("/");
            }
            if (components.path !==
undefined) {
              let s = components.path;
              if (!options.absolutePath && (!schemeHandler ||
!schemeHandler.absolutePath)) {
                s = removeDotSegments(s);
              }
              if (authority === undefined) {
                s = s.replace(/^\\|\\/, "%2F");
                //don't allow the path to start with
                "/"
              }
              uriTokens.push(s);
            }
            if (components.query !== undefined) {
              uriTokens.push("?");
              uriTokens.push(components.query);
            }
            if (components.fragment !==
undefined) {
              uriTokens.push("#");
              uriTokens.push(components.fragment);
            }
            return
uriTokens.join("");
          }
          //merge tokens into a string
          export function resolveComponents(base:URISchemeComponents,
relative:URISchemeComponents, options:URISchemeOptions = {}, skipNormalization?:boolean):URISchemeComponents {
            const
target:URISchemeComponents = {};
            if (!skipNormalization) {
              base = parse(serialize(base, options), options);
              //normalize base components
              relative = parse(serialize(relative, options), options);
              //normalize relative
components
            }
            options = options || {};
            if (!options.tolerant && relative.scheme) {
              target.scheme =
relative.scheme;
            }
            //target.authority = relative.authority;
            target.userInfo = relative.userInfo;
            target.host =
relative.host;
            target.port = relative.port;
            target.path = removeDotSegments(relative.path ||
"");
            target.query = relative.query;
          } else {
            if (relative.userInfo !== undefined || relative.host !==
undefined || relative.port !== undefined) {
              //target.authority = relative.authority;
              target.userInfo =
relative.userInfo;
              target.host =
relative.host;
              target.port = relative.port;
              target.path =
removeDotSegments(relative.path || "");
              target.query = relative.query;
            } else {
              if (!relative.path) {
                target.path = base.path;
              }
              if (relative.query !== undefined) {
                target.query =
relative.query;
              } else {
                target.query =
base.query;
              }
            }
          }
        }
      }
    }
  }
}

```

```

(relative.path.charAt(0) === "/" || relative.path.startsWith("./")) {
  target.path = removeDotSegments(relative.path);
} else {
  if ((base.userInfo !== undefined || base.host !== undefined || base.port !== undefined) && !base.path) {
    target.path = "/" + relative.path;
  } else if (!base.path) {
    target.path = relative.path;
  } else {
    target.path = base.path.slice(0, base.path.lastIndexOf("/") + 1) +
      relative.path;
  }
  target.path = removeDotSegments(target.path);
  target.query = relative.query;
  target.authority = base.authority;
  target.userInfo = base.userInfo;
  target.host = base.host;
  target.port = base.port;
  target.scheme = base.scheme;
  target.fragment = relative.fragment;
}
return target;
}
export function resolve(baseURI:string, relativeURI:string, options?:URIOptions):string {
  const schemelessOptions = assign({ scheme: 'null' }, options);
  return serialize(resolveComponents(parse(baseURI, schemelessOptions), parse(relativeURI, schemelessOptions), schemelessOptions, true), schemelessOptions);
}
export function normalize(uri:string, options?:URIOptions):string;
export function normalize(uri:URIComponents, options?:URIOptions):URIComponents;
export function normalize(uri:any, options?:URIOptions):any {
  if (typeof uri === 'string') {
    uri = serialize(parse(uri, options), options);
  } else if (typeof uri === 'object') {
    uri = parse(serialize(<URIComponents>uri, options), options);
  }
  return uri;
}
export function equal(uriA:string, uriB:string, options?: URIOptions):boolean;
export function equal(uriA:URIComponents, uriB:URIComponents, options?:URIOptions):boolean;
export function equal(uriA:any, uriB:any, options?:URIOptions):boolean {
  if (typeof uriA === 'string') {
    uriA = serialize(parse(uriA, options), options);
  } else if (typeof uriA === 'object') {
    uriA = serialize(<URIComponents>uriA, options);
  }
  if (typeof uriB === 'string') {
    uriB = serialize(parse(uriB, options), options);
  } else if (typeof uriB === 'object') {
    uriB = serialize(<URIComponents>uriB, options);
  }
  return uriA === uriB;
}
export function escapeComponent(str:string, options?:URIOptions):string {
  return str && str.toString().replace(!options || !options.iri ? URI_PROTOCOL_ESCAPE : IRI_PROTOCOL_ESCAPE, pctEncChar);
}
export function unescapeComponent(str:string, options?:URIOptions):string {
  return str && str.toString().replace(!options || !options.iri ? URI_PROTOCOL_PCT_ENCODED : IRI_PROTOCOL_PCT_ENCODED, pctDecChars);
}
import { URISchemeHandler, URIComponents, URIOptions } from './uri';
import { pctEncChar, pctDecChars, unescapeComponent } from './uri';
import punycode from 'punycode';
import { merge, subexp, toUpperCase, toArray } from './util';
export interface MailtoHeaders {
  [hfname:string]:string;
}
export interface MailtoComponents extends URIComponents {
  to:Array<string>;
  headers?:MailtoHeaders;
  subject?:string;
  body?:string;
}
const O:MailtoHeaders = {};
const isIRI = true;
const RFC_3986_UNRESERVED = "[A-Za-z0-9-._~!$%&'()*+,-/?:@[]&#";
const RFC_5322_ATOM_TEXT = "[A-Za-z0-9!#$%&'()*+,-/?:@[]&#";
const RFC_5322_WSP = "[\x20\x09]";
const RFC_5322_OBS_QTEXT = "[\x01-\x08\x0B-\x0C\x0E-\x1F\x7F]";
const RFC_5322_QTEXT = merge(["\x21\x23-\x5B\x5D-\x7E]", OBS_QTEXT);
const RFC_5322_VCHAR = "[\x21-\x7E]";
const RFC_5322_WSP_Q = "[\x20\x09]";
const RFC_5322_OBS_QP = subexp("[" + merge(["\x00\x0D\x0A"], OBS_QTEXT) + "]");
const RFC_5322_QUOTED_PAIR = subexp(subexp(WSP + "*" + "[\x0D\x0A]") + "?" + WSP + "+");
const RFC_5322_QUOTED_STRING = subexp("[" + merge(["\x00"], FWSS + "?" + QCONTENT) + "*" + FWSS + "?" + ""];
const RFC_5322_ATOM_TEXT = "[A-Za-z0-9!#$%&'()*+,-/?:@[]&#";
const RFC_5322_QTEXT = "[\x01-\x08\x0B-\x0C\x0E-\x1F\x7E]";
const RFC_5322_VCHAR = merge(QTEXT, "[\x21-\x7E]");
const RFC_5322_DOT_ATOM_TEXT = subexp(ATOM_TEXT + "+" + subexp("[\x21-\x7E]"));

```









```
subexp(QTEXT$$ + \| + QUOTED_PAIR$);\nconst QUOTED_STRING$ = subexp("\\\\\\" + QCONTENT$ +
\|*\| + \\\");\n\n/RFC 6068\nconst DTEXT_NO_OBS$$ = "[\\x21-\\x5A\\x5E-\\x7E]"; // %d33-90 /
%d94-126\nconst SOME_DELIMS$$ = "[!\"#$%&'()*+,-./:;<=>?@]";\nconst QCHAR$ =
subexp(UNRESERVED$$ + \| + PCT_ENCODED$ + \| + SOME_DELIMS$$);\nconst DOMAIN$ =
subexp(DOT_ATOM_TEXT$ + \| + \\\\" + DTEXT_NO_OBS$$ + \|*\| + \\\");\nconst LOCAL_PART$ =
subexp(DOT_ATOM_TEXT$ + \| + QUOTED_STRING$);\nconst ADDR_SPEC$ = subexp(LOCAL_PART$ +
\|\\@\" + DOMAIN$);\nconst TO$ = subexp(ADDR_SPEC$ + subexp(\"\\|,\" + ADDR_SPEC$) + \|*\|);\nconst
HFNAME$ = subexp(QCHAR$ + \|*\|);\nconst HFVALUE$ = HFNAME$;\nconst HFIELD$ =
subexp(HFNAME$ + \\\\" = \| + HFVALUE$);\nconst HFIELDS2$ = subexp(HFIELD$ + subexp(\"\\|&\" +
HFIELD$) + \|*\|);\nconst HFIELDS$ = subexp(\"\\|?\" + HFIELDS2$);\nconst MAILTO_URI = new
RegExp(\"^mailto:\\|: \" + TO$ + \\\\"?\" + HFIELDS$ + \\\\"?$\");\n\nconst UNRESERVED = new
RegExp(UNRESERVED$$, \"g\");\nconst PCT_ENCODED = new RegExp(PCT_ENCODED$, \"g\");\nconst
NOT_LOCAL_PART = new RegExp(merge(\"^[^\"]\", ATEXT$$, \"[\\\\.]\", \"[\\\\\\\\]\", VCHAR$$), \"g\");\nconst
NOT_DOMAIN = new RegExp(merge(\"^[^\"]\", ATEXT$$, \"[\\\\.]\", \"[\\\\\\\\]\", DTEXT_NO_OBS$$, \"[\\\\\\\\]\"),
\"g\");\nconst NOT_HFNAME = new RegExp(merge(\"^[^\"]\", UNRESERVED$$, SOME_DELIMS$$),
\"g\");\nconst NOT_HFVALUE = NOT_HFNAME;\nconst TO = new RegExp(\"^\" + TO$ + \\\\"$\");\nconst
HFIELDS = new RegExp(\"^\" + HFIELDS2$ + \\\\"$\");\n\nfunction decodeUnreserved(str:string):string {\nconst
decStr = pctDecChars(str);\nreturn (!decStr.match(UNRESERVED) ? str : decStr);\n}\n\nconst
handler:URISchemeHandler<MailtoComponents> = {\n  scheme : \"mailto\", \n  parse : function
(components:URISchemeOptions, options:URISchemeOptions):MailtoComponents {\nconst mailtoComponents =
components as MailtoComponents;\nconst to = mailtoComponents.to = (mailtoComponents.path ?
mailtoComponents.path.split(\" \", \"\") : []);\nconst mailtoComponents.path = undefined;\nconst
(mailtoComponents.query) {\nconst unknownHeaders = false\nconst headers:MailtoHeaders = {};\nconst
hfields = mailtoComponents.query.split(\"&\");\nconst for (let x = 0, xl = hfields.length; x < xl; ++x) {\nconst
hfield = hfields[x].split(\"=\");\nconst switch (hfield[0]) {\nconst case \"to\":\nconst toAddrs =
hfield[1].split(\" \", \"\");\nconst for (let x = 0, xl = toAddrs.length; x < xl; ++x)
{\nconst tto.push(toAddrs[x]);\nconst tbreak;\nconst tcase
\"subject\":\nconst mailtoComponents.subject = unescapeComponent(hfield[1],
options);\nconst tbreak;\nconst tcase \"body\":\nconst mailtoComponents.body =
unescapeComponent(hfield[1], options);\nconst tbreak;\nconst tdefault:\nconst unknownHeaders =
true;\nconst theaders[unescapeComponent(hfield[0], options)] = unescapeComponent(hfield[1],
options);\nconst tbreak;\nconst t}\nconst mailtoComponents.headers =
headers;\nconst t}\nconst mailtoComponents.query = undefined;\nconst for (let x = 0, xl = to.length; x < xl; ++x)
{\nconst addr = to[x].split(\"@\");\nconst taddr[0] = unescapeComponent(addr[0]);\nconst
(!options.unicodeSupport) {\nconst t//convert Unicode IDN -> ASCII IDN\nconst ttry {\nconst taddr[1] =
punycode.toASCII(unescapeComponent(addr[1], options).toLowerCase());\nconst t} catch (e)
{\nconst tmailtoComponents.error = mailtoComponents.error || \"Email address's domain name can not be converted
to ASCII via punycode: \" + e;\nconst t}\nconst t} else {\nconst taddr[1] = unescapeComponent(addr[1],
options).toLowerCase();\nconst t}\nconst tto[x] = addr.join(\"@\");\nconst t}\nconst treturn
mailtoComponents;\nconst t},\nconst tserialize : function (mailtoComponents:MailtoComponents,
options:URISchemeOptions):URISchemeOptions {\nconst components = mailtoComponents as URISchemeOptions;\nconst
to = toArray(mailtoComponents.to);\nconst tif (to) {\nconst tfor (let x = 0, xl = to.length; x < xl; ++x) {\nconst
toAddr = String(to[x]);\nconst tconst atIdx = toAddr.lastIndexOf(\"@\");\nconst tconst localPart = (toAddr.slice(0,
atIdx)).replace(PCT_ENCODED, decodeUnreserved).replace(PCT_ENCODED,
toUpperCase).replace(NOT_LOCAL_PART, pctEncChar);\nconst tconst domain = toAddr.slice(atIdx +
1);\nconst tconst t//convert IDN via punycode\nconst ttry {\nconst tconst domain = (!options.iri ?
punycode.toASCII(unescapeComponent(domain, options).toLowerCase()) : punycode.toUnicode(domain));\nconst t} catch (e) {\nconst tconst components.error = components.error || \"Email address's domain name can not be converted to
```





```

URISchemeHandler extends URISchemeHandler, URISchemeHandler extends
URISchemeHandler = URISchemeHandler> {
  \n\tscheme:string;
  \n\tparse(components:ParentComponents,
options:Options):Components;
  \n\tserialize(components:Components,
options:Options):ParentComponents;
  \n\tnunicodeSupport?:boolean;
  \n\tdomainHost?:boolean;
  \n\tabsolutePath?:boolean;
  \n}
\n\nexport interface URIRegExps {
  \n\tnotScheme : RegExp;
  \n\tnotUserInfo :
RegExp;
  \n\tnotHost : RegExp;
  \n\tnotPath : RegExp;
  \n\tnotPathNoScheme :
RegExp;
  \n\tnotQuery : RegExp;
  \n\tnotFragment : RegExp;
  \n\tescape : RegExp;
  \n\tnoReserved :
RegExp;
  \n\totherChars : RegExp;
  \n\tpctEncoded : RegExp;
  \n\tipv4Address :
RegExp;
  \n\tipv6Address : RegExp;
}
\n\nexport const SCHEMES: {[scheme:string]:URISchemeHandler} =
{};
\n\nexport function pctEncChar(chr:string):string {
  \n\tnconst c = chr.charCodeAt(0);
  \n\tnlet e:string;
  \n\tnif (c < 16)
e = \"%0\" + c.toString(16).toUpperCase();
  \n\tnelse if (c < 128) e = \"%\" + c.toString(16).toUpperCase();
  \n\tnelse if (c < 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) |
128).toString(16).toUpperCase();
  \n\tnelse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >>
6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();
  \n\tnreturn
e;
}
\n\nexport function pctDecChars(str:string):string {
  \n\tnlet newStr = \"\";
  \n\tnlet i = 0;
  \n\tnconst il =
str.length;
  \n\tnwhile (i < il) {
  \n\tnconst c = parseInt(str.substr(i + 1, 2), 16);
  \n\tnif (c < 128) {
  \n\tnnewStr +=
String.fromCharCode(c);
  \n\tni += 3;
  \n\tnelse if (c >= 194 && c < 224) {
  \n\tnif ((il - i) >= 6) {
  \n\tnconst
c2 = parseInt(str.substr(i + 4, 2), 16);
  \n\tnnewStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
  \n\tn}
  \n\tnelse {
  \n\tnnewStr += str.substr(i, 6);
  \n\tni += 6;
  \n\tnelse if (c >= 224) {
  \n\tnif ((il - i) >= 9)
{
  \n\tnconst c2 = parseInt(str.substr(i + 4, 2), 16);
  \n\tnconst c3 = parseInt(str.substr(i + 7, 2), 16);
  \n\tnnewStr
+= String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));
  \n\tn}
  \n\tnelse {
  \n\tnnewStr +=
str.substr(i, 9);
  \n\tni += 9;
  \n\tn}
  \n\tnelse {
  \n\tnnewStr += str.substr(i, 3);
  \n\tni +=
3;
  \n\tn}
  \n\tn}
  \n\tnreturn newStr;
}
}
\n\nfunction _normalizeComponentEncoding(components:URISchemeHandler,
protocol:URIRegExps) {
  \n\tnfunction decodeUnreserved(str:string):string {
  \n\tnconst decStr =
pctDecChars(str);
  \n\tnreturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);
}
  \n\tnif
(components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"%\");
  \n\tnif (components.userInfo !==
undefined) components.userInfo = String(components.userInfo).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);
  \n\tnif (components.host !== undefined) components.host =
String(components.host).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);
  \n\tnif (components.path !== undefined) components.path =
String(components.path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ?
protocol.NOT_PATH : protocol.NOT_PATH_NO_SCHEME), pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);
  \n\tnif (components.query !== undefined) components.query =
String(components.query).replace(protocol.PCT_ENCODED, decodeUnreserved).replace(protocol.NOT_QUERY,
pctEncChar).replace(protocol.PCT_ENCODED, toUpperCase);
  \n\tnif (components.fragment !== undefined)
components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);
  \n\tnreturn components;
}
\n\nfunction _stripLeadingZeros(str:string):string {
  \n\tnreturn
str.replace(/^0*(.*)/, \"%1\");
}
\n\nfunction _normalizeIPv4(host:string, protocol:URIRegExps):string
{
  \n\tnconst matches = host.match(protocol.IPV4ADDRESS) || [];
  \n\tnconst [, address] = matches;
  \n\tnif (address)
{
  \n\tnreturn address.split(\".\").map(_stripLeadingZeros).join(\".\");
}
  \n\tn}
\n\nfunction
_normalizeIPv6(host:string, protocol:URIRegExps):string {
  \n\tnconst matches =
host.match(protocol.IPV6ADDRESS) || [];
  \n\tnconst [, address, zone] = matches;
  \n\tnif (address) {
  \n\tnconst [last,
first] = address.toLowerCase().split(\"::\").reverse();
  \n\tnconst firstFields = first ?
first.split(\":\").map(_stripLeadingZeros) : [];
  \n\tnconst lastFields =

```

```
last.split("\\:").map(_stripLeadingZeros);\n\t\tconst isLastFieldIPv4Address =
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 :
8;\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;\n\t\tconst fields = Array<string>(fieldCount);\n\t\tfor
(let x = 0; x < fieldCount; ++x) {\n\t\t\tfields[x] = firstFields[x] || lastFields[lastFieldsStart + x] || "";\n\t\t}\n\t\tif
(isLastFieldIPv4Address) {\n\t\t\tfields[fieldCount - 1] = _normalizeIPv4(fields[fieldCount - 1],
protocol);\n\t\t}\n\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
index) => {\n\t\t\tif (!field || field === \"0\") {\n\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\tif (lastLongest
&& lastLongest.index + lastLongest.length === index) {\n\t\t\t\t\tlastLongest.length++;\n\t\t\t\t} else
{\n\t\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t\t}\n\t\t\t\treturn acc;\n\t\t\t}, []);\n\t\t\tconst longestZeroFields =
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\t\t\tlet newHost:string;\n\t\t\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\t\t\tconst newFirst = fields.slice(0, longestZeroFields.index) ;\n\t\t\t\tconst newLast
= fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\t\t\tnewHost = newFirst.join("\\:") + \":\" +
newLast.join("\\:");\n\t\t\t} else {\n\t\t\t\tnewHost = fields.join("\\:");\n\t\t\t}\n\t\t\tif (zone) {\n\t\t\t\tnewHost += \"%\" +
zone;\n\t\t\t}\n\t\t\treturn newHost;\n\t\t} else {\n\t\t\treturn host;\n\t\t}\n\t}\n\tconst URI_PARSE =
/^(?:([^\v?#]+):)?(?:\\v\\v(?:([^\v?#@]*))@)?(?:\\v\\v(?:[^\v?#\\v]+)\\v|\\v(?:[^\v?#:]*)\\v(?:\\d*))?)?(?:[#](?:
\\.\\|\\|r*))?/i;\n\tconst NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>(\"\\v\").match(/(){}0/))[1] ===
undefined;\n\texport function parse(uriString:string, options:URIOptions = {}):URISchemeComponents {\n\t\tconst
components:URISchemeComponents = {};\n\t\tconst protocol = (options.iri !== false ? IRI_PROTOCOL :
URI_PROTOCOL);\n\t\tif (options.reference === \"suffix\") uriString = (options.scheme ? options.scheme + \":\" :
\"\\v\") + \"/\" + uriString;\n\t\tconst matches = uriString.match(URI_PARSE);\n\t\tif (matches) {\n\t\t\tif
(NO_MATCH_IS_UNDEFINED) {\n\t\t\t\tstore each component\n\t\t\t\tcomponents.scheme =
matches[1];\n\t\t\t\tcomponents.userInfo = matches[3];\n\t\t\t\tcomponents.host = matches[4];\n\t\t\t\tcomponents.port =
parseInt(matches[5], 10);\n\t\t\t\tcomponents.path = matches[6] || \"\\v\";\n\t\t\t\tcomponents.query =
matches[7];\n\t\t\t\tcomponents.fragment = matches[8];\n\t\t\t\t//fix port number\n\t\t\t\tif (isNaN(components.port))
{\n\t\t\t\t\tcomponents.port = matches[5];\n\t\t\t\t}\n\t\t\t\t} else { //IE FIX for improper RegExp matching\n\t\t\t\tstore
each component\n\t\t\t\tcomponents.scheme = matches[1] || undefined;\n\t\t\t\tcomponents.userInfo =
(uriString.indexOf(\"@\") !== -1 ? matches[3] : undefined);\n\t\t\t\tcomponents.host = (uriString.indexOf(\"/\") !== -
1 ? matches[4] : undefined);\n\t\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\t\tcomponents.path = matches[6]
|| \"\\v\";\n\t\t\t\tcomponents.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] :
undefined);\n\t\t\t\tcomponents.fragment = (uriString.indexOf(\"#\") !== -1 ? matches[8] : undefined);\n\t\t\t\t//fix
port number\n\t\t\t\tif (isNaN(components.port)) {\n\t\t\t\t\tcomponents.port =
(uriString.match(/\\v\\v(?:\\.\\|\\|r)*\\v(?:\\v\\v?\\v|\\v#)/) ? matches[4] : undefined);\n\t\t\t\t}\n\t\t\t\t}\n\t\t\t}\n\t\t\tif (components.host)
{\n\t\t\t\tnormalize IP hosts\n\t\t\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol),
protocol);\n\t\t\t}\n\t\t\t//determine reference type\n\t\t\tif (components.scheme === undefined &&
components.userInfo === undefined && components.host === undefined && components.port === undefined &&
!components.path && components.query === undefined) {\n\t\t\t\tcomponents.reference = \"same-document\";\n\t\t\t}\n\t\t\telse if (components.scheme === undefined) {\n\t\t\t\tcomponents.reference = \"relative\";\n\t\t\t}\n\t\t\telse if
(components.fragment === undefined) {\n\t\t\t\tcomponents.reference = \"absolute\";\n\t\t\t}\n\t\t\telse
{\n\t\t\t\tcomponents.reference = \"uri\";\n\t\t\t}\n\t\t\t//check for reference errors\n\t\t\tif (options.reference &&
options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\t\t\tcomponents.error =
components.error || \"URI is not a \" + options.reference + \" reference.\";\n\t\t\t}\n\t\t\t//find scheme
handler\n\t\t\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme ||
\"\\v\").toLowerCase()];\n\t\t\t//check if scheme can't handle IRIs\n\t\t\tif (!options.unicodeSupport &&
(!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t\t\t//if host component is a domain name\n\t\t\t\tif (components.host && (options.domainHost || (schemeHandler && schemeHandler.domainHost))) {\n\t\t\t\t\t//convert
Unicode IDN -> ASCII IDN\n\t\t\t\t\ttry {\n\t\t\t\t\t\tcomponents.host =
punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars)).toLowerCase();\n\t\t\t\t\t}\n\t\t\t\t\tcatch (e) {\n\t\t\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via
```





```

function.\n * @private\n * @param {Array} array The array to iterate over.\n * @param {Function} callback The
function that gets called for every array\n * item.\n * @returns {Array} A new array of values returned by the
callback function.\n *\nfunction map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--> 0) {\n\t\tresult[length] = fn(array[length]);\n\t}\n\treturn result;\n}\n\n**\n * A simple `Array#map`-like wrapper to
work with domain name strings or email\n * addresses.\n * @private\n * @param {String} domain The domain
name or email address.\n * @param {Function} callback The function that gets called for every\n * character.\n *
@return {Array} A new string of characters returned by the callback\n * function.\n *\nfunction
mapDomain(string, fn) {\n\tconst parts = string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email
addresses, only the domain name should be punycode'd. Leave\n\t\t// the local part (i.e. everything up to `@`)
intact.\n\t\tresult = parts[0] + '@';\n\t\tstring = parts[1];\n\t}\n\t// Avoid `split(regex)` for IE8 compatibility. See
#17.\n\tstring = string.replace(regexSeparators, '\\x2E');\n\tconst labels = string.split('.');\n\tconst encoded =
map(labels, fn).join('.');\n\treturn result + encoded;\n}\n\n**\n * Creates an array containing the numeric code
points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will
convert a pair of surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code
point,\n * matching UTF-16.\n * @see `punycode.ucs2.encode`\n * @see
<https://mathiasbynens.be/notes/javascript-encoding>\n * @memberOf punycode.ucs2\n * @name decode\n *
@param {String} string The Unicode input string (UCS-2).\n * @returns {Array} The new array of code points.\n
*\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet counter = 0;\n\tconst length = string.length;\n\twhile
(counter < length) {\n\t\tconst value = string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <=
0xDBFF && counter < length) {\n\t\t\t// It's a high surrogate, and there is a next character.\n\t\t\tconst extra =
string.charCodeAt(counter++);\n\t\t\tif ((extra & 0xFC00) == 0xDC00) { // Low
surrogate.\n\t\t\t\toutput.push(((value & 0x3FFF) << 10) + (extra & 0x3FFF) + 0x10000);\n\t\t\t} else {\n\t\t\t\t// It's an
unmatched surrogate; only append this code unit, in case the\n\t\t\t\t// next code unit is the high surrogate of a
surrogate pair.\n\t\t\t\toutput.push(value);\n\t\t\t\tcounter--;\n\t\t\t}\n\t\t} else {\n\t\t\toutput.push(value);\n\t\t}\n\t}\n\treturn output;\n}\n\n**\n * Creates a string based on an array of numeric
code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param
{Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n
*\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n**\n * Converts a basic code point into a
digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric code
point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing integers)
in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n *\nconst basicToDigit =
function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif (codePoint - 0x41 <
0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn codePoint -
0x61;\n\t}\n\treturn base;\n}\n\n**\n * Converts a digit/integer into a basic code point.\n * @see `basicToDigit()`\n
* @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns {Number} The
basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be in the range\n
* `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is used. The behavior
is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n *\nconst digitToBasic = function(digit,
flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII 0..9\n\treturn digit + 22 + 75 * (digit < 26) -
((flag != 0) << 5);\n}\n\n**\n * Bias adaptation function as per section 3.4 of RFC 3492.\n *
https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n *\nconst adapt = function(delta, numPoints,
firstTime) {\n\tlet k = 0;\n\tlet delta = firstTime ? floor(delta / damp) : delta >> 1;\n\tlet delta += floor(delta /
numPoints);\n\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tlet delta = floor(delta /
baseMinusTMin);\n\t}\n\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n}\n\n**\n * Converts a
Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n *
@param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of
Unicode symbols.\n *\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst output = [];\n\tconst
inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\t// Handle the basic code

```

```

points: let `basic` be the number of input code points before the last delimiter, or `0` if there is none, then
copy the first basic code points to the output.
let basic = input.lastIndexOf(delimiter);
if (basic < 0)
  basic = 0;
for (let j = 0; j < basic; ++j)
  if (input.charCodeAt(j) >= 0x80)
    throw new Error('not-basic');
  output.push(input.charCodeAt(j));
// Main decoding loop:
start just after the last delimiter if any basic code points were copied; start at the beginning otherwise.
for (let index = basic > 0 ? basic + 1 : 0; index < input.length; /* no final expression */)
  `index` is the index of the next character to be consumed.
  Decode a generalized variable-length integer into `delta` which gets added to `i`.
  The overflow checking is easier if we increase `i` as we go, then subtract off its starting value at the end to obtain `delta`.
  for (let oldi = i; /* no condition */; k += base)
    if (index >= input.length)
      throw new Error('invalid-input');
    const digit =
      basicToDigit(input.charCodeAt(index++));
    if (digit >= base || digit > floor((maxInt - i) / w))
      throw new Error('overflow');
    i += digit * w;
    const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
    if (digit < t)
      break;
    const baseMinusT = base - t;
    if (w > floor(maxInt / baseMinusT))
      throw new Error('overflow');
    tw *= baseMinusT;
    const out = output.length + 1;
    bias = adapt(i - oldi, out, oldi == 0);
    // `i` was supposed to wrap around from `out` to `0`, incrementing `n` each time, so we'll fix that now:
    if (floor(i / out) > maxInt - n)
      throw new Error('overflow');
    tn += floor(i / out);
    i %= out;
    // Insert `n` at position `i` of the output.
    output.splice(i++, 0, n);
  return String.fromCodePoint(...output);
}
// Converts a string of Unicode symbols (e.g. a domain name label) to a Punycode string of ASCII-only symbols.
@memberof punycode
@param {String} input The string of Unicode symbols.
@returns {String} The resulting Punycode string of ASCII-only symbols.
^const encode = function(input) {
  const output = [];
  // Convert the input in UCS-2 to an array of Unicode code points.
  input = ucs2decode(input);
  // Cache the length.
  let inputLength = input.length;
  // Initialize the state.
  let n = initialN;
  let delta = 0;
  let bias = initialBias;
  // Handle the basic code points.
  for (const currentValue of input)
    if (currentValue < 0x80)
      output.push(stringFromCharCode(currentValue));
  let basicLength = output.length;
  let handledCPCCount = basicLength;
  // `handledCPCCount` is the number of code points that have been handled;
  // `basicLength` is the number of basic code points.
  // Finish the basic string with a delimiter unless it's empty.
  if (basicLength)
    output.push(delimiter);
  // Main encoding loop:
  while (handledCPCCount < inputLength)
    // All non-basic code points < n have been handled already. Find the next larger one.
    let m = maxInt;
    for (const currentValue of input)
      if (currentValue >= n && currentValue < m)
        tm = currentValue;
    // Increase `delta` enough to advance the decoder's <n,i> state to <m,0>, but guard against overflow.
    const handledCPCCountPlusOne = handledCPCCount + 1;
    if (m - n > floor((maxInt - delta) / handledCPCCountPlusOne))
      throw new Error('overflow');
    delta += (m - n) * handledCPCCountPlusOne;
    tn = m;
    for (const currentValue of input)
      if (currentValue < n && ++delta > maxInt)
        throw new Error('overflow');
      if (currentValue == n)
        // Represent delta as a generalized variable-length integer.
        let q = delta;
        for (let k = base; /* no condition */; k += base)
          const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
          if (q < t)
            break;
          const qMinusT = q - t;
          const baseMinusT = base - t;
          output.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT, 0)));
          tq = floor(qMinusT / baseMinusT);
          handledCPCCountPlusOne, handledCPCCount == basicLength);
    delta = 0;
    tn += handledCPCCount;
    n += delta;
  return output.join('');
}
// Converts a Punycode string representing a domain name or an email address to Unicode. Only the Punycode parts of the input will be converted, i.e. it doesn't matter if you call it on a string that has already been converted to Unicode.
@memberof punycode
@param {String} input The Punycode domain name or email address to convert to Unicode.
@returns {String} The Unicode representation of the given Punycode string.
^const toUnicode = function(input) {
  return mapDomain(input, function(string) {
    return

```



```

\:" ) h16 ] \::"          h16\n\t\tIPV6ADDRESS9$ = subexp(subexp(subexp(H16$ + "\\\\:)" + "{0,6}" + H16$)
+ "\?\\:\\\\:"
          ),/[ *( h16 \:" ) h16 ] \::"\n\t\tIPV6ADDRESS$ =
subexp((IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$, IPV6ADDRESS4$, IPV6ADDRESS5$,
IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$, IPV6ADDRESS9$].join("\|")), \n\t\tZONEID$ =
subexp(subexp(UNRESERVED$$ + "|" + PCT_ENCODED$) + "+\|"), //RFC 6874\n\t\tIPV6ADDRZ$ =
subexp(IPV6ADDRESS$ + "\\\%25" + ZONEID$), //RFC 6874\n\t\tIPV6ADDRZ_RELAXED$ =
subexp(IPV6ADDRESS$ + subexp("\\\%25\\%(\?!" + HEXDIG$$ + "{2}")) + ZONEID$), //RFC 6874, with
relaxed parsing rules\n\t\tIPV6FUTURE$ = subexp("[vV]" + HEXDIG$$ + "+\\:\\\\." + merge(UNRESERVED$$,
SUB_DELIMSS$, "\[\\:\\\\:]")) + "+\|"), \n\t\tIP_LITERAL$ = subexp("\\\\[|" + subexp(IPV6ADDRZ_RELAXED$ +
"\|" + IPV6ADDRESS$ + "|" + IPV6FUTURE$) + "\\\\[|)", //RFC 6874\n\t\tREG_NAME$ =
subexp(subexp(PCT_ENCODED$ + "|" + merge(UNRESERVED$$, SUB_DELIMSS$)) + "\*"), \n\t\tHOST$ =
subexp(IP_LITERAL$ + "|" + IPV4ADDRESS$ + "(?!" + REG_NAME$ + "\)" + "\|" +
REG_NAME$), \n\t\tPORT$ = subexp(DIGIT$$ + "\*"), \n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
"@") + "\?" + HOST$ + subexp("\\\:\\\\:" + PORT$) + "\?"), \n\t\tPCHAR$ = subexp(PCT_ENCODED$ + "\|" +
merge(UNRESERVED$$, SUB_DELIMSS$, "\[\\:\\\\:@]")), \n\t\tSEGMENT$ = subexp(PCHAR$ +
"\*"), \n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + "+"), \n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + "|" + merge(UNRESERVED$$, SUB_DELIMSS$, "\[\\:\\\\:@]")) +
"+\|"), \n\t\tPATH_ABEMPTY$ = subexp(subexp("\\\\\" + SEGMENT$) + "\*"), \n\t\tPATH_ABSOLUTE$ =
subexp("\\\\\" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + "\?"), //simplified\n\t\tPATH_NOSCHEMES
= subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_ROOTLESS$ =
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_EMPTY$ = "\?!" + PCHAR$ +
"\)", \n\t\tPATH$ = subexp(PATH_ABEMPTY$ + "\|" + PATH_ABSOLUTE$ + "\|" + PATH_NOSCHEMES$ +
"\|" + PATH_ROOTLESS$ + "\|" + PATH_EMPTY$), \n\t\tQUERY$ = subexp(subexp(PCHAR$ + "\|" +
merge("\\\:\\\\?]", IPRIVATE$$)) + "\*"), \n\t\tFRAGMENT$ = subexp(subexp(PCHAR$ + "\[\\:\\\\?]" +
"\*"), \n\t\tHIER_PART$ = subexp(subexp("\\\\\" + AUTHORITY$ + PATH_ABEMPTY$) + "\|" +
PATH_ABSOLUTE$ + "\|" + PATH_ROOTLESS$ + "\|" + PATH_EMPTY$), \n\t\tURI$ = subexp(SCHEMES$ +
"\\\:\\\\:" + HIER_PART$ + subexp("\\\\\" + QUERY$) + "\?" + subexp("\\\\\" + FRAGMENT$) +
"\?"), \n\t\tRELATIVE_PART$ = subexp(subexp("\\\\\" + AUTHORITY$ + PATH_ABEMPTY$) + "\|" +
PATH_ABSOLUTE$ + "\|" + PATH_NOSCHEMES$ + "\|" + PATH_EMPTY$), \n\t\tRELATIVE$ =
subexp(RELATIVE_PART$ + subexp("\\\\\" + QUERY$) + "\?" + subexp("\\\\\" + FRAGMENT$) +
"\?"), \n\t\tURI_REFERENCE$ = subexp(URI$ + "\|" + RELATIVE$), \n\t\tABSOLUTE_URI$ =
subexp(SCHEMES$ + "\\\:\\\\:" + HIER_PART$ + subexp("\\\\\" + QUERY$) + "\?"), \n\t\tGENERIC_REF$ =
"^((" + SCHEMES$ + "\)\\:\\\\:" + subexp(subexp("\\\\\" + subexp("(" + USERINFO$ + ")@") + "\?(" +
HOST$ + ")") + subexp("\\\:\\\\:((" + PORT$ + ")") + "\?")" + "\?(" + PATH_ABEMPTY$ + "\|" +
PATH_ABSOLUTE$ + "\|" + PATH_ROOTLESS$ + "\|" + PATH_EMPTY$ + ")") + subexp("\\\\\" +
QUERY$ + ")") + "\?" + subexp("\\\\\" + FRAGMENT$ + ")") + "\?$", \n\t\tRELATIVE_REF$ = "^(0}" +
subexp(subexp("\\\\\" + subexp("(" + USERINFO$ + ")@") + "\?(" + HOST$ + ")") + subexp("\\\:\\\\:((" +
PORT$ + ")") + "\?")" + "\?(" + PATH_ABEMPTY$ + "\|" + PATH_ABSOLUTE$ + "\|" +
PATH_NOSCHEMES$ + "\|" + PATH_EMPTY$ + ")") + subexp("\\\\\" + QUERY$ + ")") + "\?" +
subexp("\\\\\" + FRAGMENT$ + ")") + "\?$", \n\t\tABSOLUTE_REF$ = "^((" + SCHEMES$ + "\)\\:\\\\:" +
subexp(subexp("\\\\\" + subexp("(" + USERINFO$ + ")@") + "\?(" + HOST$ + ")") + subexp("\\\:\\\\:((" +
PORT$ + ")") + "\?")" + "\?(" + PATH_ABEMPTY$ + "\|" + PATH_ABSOLUTE$ + "\|" +
PATH_ROOTLESS$ + "\|" + PATH_EMPTY$ + ")") + subexp("\\\\\" + QUERY$ + ")") +
"\?$", \n\t\tSAMEDOC_REF$ = "^((" + subexp("\\\\\" + FRAGMENT$ + ")") +
"\?$", \n\t\tAUTHORITY_REF$ = "^((" + USERINFO$ + ")@") + "\?(" + HOST$ + ")") +
subexp("\\\:\\\\:((" + PORT$ + ")") + "\?")" + "\?$" \n\t;\n\treturn { \n\t\tNOT_SCHEME : new RegExp(merge("\[^\]",
ALPHA$$, DIGIT$, "\[\\:\\\\+\\:\\\\-\\:\\\\.]", "g")), \n\t\tNOT_USERINFO : new RegExp(merge("\[^\%\\:\\\\:]",
UNRESERVED$$, SUB_DELIMSS$), "g"), \n\t\tNOT_HOST : new RegExp(merge("\[^\%\\:\\\\+\\:\\\\-\\:\\\\.]",

```





VED\$\$", "SUB\_DELIMSS\$\$", "IPRIVATE\$\$", "ALPHA\$\$", "DIGIT\$\$", "AUTHORITY\_REF\$", "USERINFO\$", "HOST\$", "PORT\$", "SAMEDOC\_REF\$", "FRAGMENTS\$", "ABSOLUTE\_REF\$", "SCHEMES\$", "PATH\_ABEMPTY\$", "PATH\_ABSOLUTE\$", "PATH\_ROOTLESS\$", "PATH\_EMPTY\$", "QUERY\$", "RELATIVE\_REF\$", "PATH\_NO\_SCHEME\$", "GENERIC\_REF\$", "ABSOLUTE\_URI\$", "HIER\_PARTS\$", "URI\_REFERENCES\$", "URI\$", "RELATIVES\$", "RELATIVE\_PART\$", "AUTHORITY\$", "PCHAR\$", "PATH\$", "SEGMENT\_NZ\$", "SEGMENT\_NZ\_NC\$", "SEGMENTS\$", "IP\_LITERAL\$", "REG\_NAMES\$", "IPV6ADDRZ\_RELAXED\$", "IPVFUTURE\$", "IPV6ADDRESS1\$", "IPV6ADDRESS2\$", "IPV6ADDRESS3\$", "IPV6ADDRESS4\$", "IPV6ADDRESS5\$", "IPV6ADDRESS6\$", "IPV6ADDRESS7\$", "IPV6ADDRESS8\$", "IPV6ADDRESS9\$", "H16\$", "LS32\$", "DEC\_OCTET\_RELAXED\$", "DEC\_OCTETS\$", "UCSCHAR\$\$", "GEN\_DELIMSS\$\$", "SP\$\$", "DQUOTE\$\$", "CR\$", "obj", "key", "source", "setInterval", "call", "prototype", "o", "Object", "shift", "sets", "]", "mappings": ";;;;;;;;;AUA, SAAA4E, KAAA, GAAA; sCAAYBkP, IAAzB; YAAA; ; QACKA, KAAK/R, MAAL, GAAc, CAAIB, EAAqB; aAcF, CAAL, IAAU+R, KAAK, CAAL, EAAQrQ, KAAR, CAAc, CAAd, EAAiB, CAAC, CAAIB, CAAV; YACMK, KAAKqG, KAAK/R, MAAL, GAAc, CAAzB; aACK, IAAIgb, IAAI, CAAb, EAAgBA, IAAIe, EAApB, EAAwB, EAAef, CAA1B, EAA6B; iBACvBA, CAAL, IAAU+Q, KAAK/Q, CAAL, EAAQU, KAAR, CAAc, CAAd, EAAiB, CAAC, CAAIB, CAAV; ; aAEIK, EAAL, IAAWgQ, KAAKhQ, EAAL, EAASL, KAAT, CAAe, CAAf, CAAX; eACOqQ, KAAKhS, IAAL, CAAU, EAAV, CAAP; KAPD, MAQO; eACCgS, KAAK, CAAL, CAAP; ; AAIF, AAAA, SAAA3O, MAAA, CAAuBV, GAAvB, EAAA; WACQ, QAAQA, GAAR, GAAc, GAARb; ; AAGD, AAAA, SAAAUb, MAAA, CAAuB2N, CAAvB, EAAA; WACQA, MAAM3S, SAAN, GAAkB, WAAIB, GAAiC2S, MAAM, IAAN, GAAa, MAAb, GAAaBC, OAAOF, SAAP, CAAiBjO, QAAjB, CAA0BgO, IAA1B, CAA+BE, CAA/B, EAAkCzP, KAAIC, CAAwC, GAAx, EAA6C8D, GAA7C, GAAMd9D, KAANd, CAAyD, GAAzD, EAA8D2P, KAA9D, GAAaEnT, WAAte, EAA9D; ; AAGD, AAAA, SAAA2B, WAAA, CAA4BoC, GAA5B, EAAA; WACQA, IAAlpC, WAAJ, EAAP; ; AAGD, AAAA, SAAA0B, OAAA, CAAwBsP, GAAxB, EAAA; WACQA, QAAQrS, SAAR, IAAqBqS, QAAQ, IAA7B, GAAqCA, eAAenJ, KAAf, GAAuBmJ, GAAvB, GAA8B, OAAOA, IAAItR, MAAX, KAAaSB, QAAtB, IAAkCsR, IAAInP, KAAtC, IAA+CmP, IAAIG, WAAAnD, IAAkEH, IAAII, IAAte, GAA6E, CAACJ, GAAD, CAA7E, GAAqFnJ, MAAMwJ, SAAN, CAAgBjQ, KAAhB, CAAaSBgQ, IAAtB, CAA2BJ, GAA3B, CAAxJ, GAA4L, EAAmM; ; AAID, AAAA, SAAA7M, MAAA, CAAuBE, MAAvB, EAAuC6M, MAAvC, EAAA; QACOF, MAAM3M, MAAZ; QACI6M, MAAJ, EAAY; aACN, IAAMD, GAAX, IAAkBC, MAAlB, EAA0B; gBACrBD, GAAJ, IAAWC, OAAOD, GAAP, CAAX; ; WAGKD, GAAP; ; ADnCD, SAAA3D, SAAA, CAA0BrK, KAA1B, EAAA; QAEE4K, UAAU, UADX; QAECmD, MAAM, SAFF; QAGCID, UAAU, OAHX; QAICiD, WAAW, SAJZ; QAKC/N, WAAWR, MAAMsL, OAAAN, EAAe, UAAf, CALZ; ; WAMQ, SANR; QAOCgD, OAAO, SAPR; QAQCjO, eAAeE, OAAOA, OAAO, YAAYC, QAAZ, GAAuB, GAAvB, GAA6BA, QAA7B, GAAwCA, QAAxC, GAAMd, GAANd, GAAyDA, QAAzD, GAAoEA, QAA3E, IAAuF, GAAvF, GAA6FD, OAAO, gBAAgBC, QAAhB, GAA2B, GAA3B, GAAiCA, QAAjC, GAA4CA, QAAAnD, CAA7F, GAA4J, GAA5J, GAAkKD, OAAO, MAAMC, QAAN, GAAiBA, QAAxB, CAAzK, CARhB; ; mBASgB, yBATHb; QAUC2K, eAAe, qCAVhB; QAWCD, aAAaL, MAAMqO, YAAN, EAAoBID, YAAPb, CAXd; QAYCiD, YAAY3N, QAAQ, 6EAAAR, GAAwF, IAZrG; ; iBAacA, QAAQ, mBAAR, GAA8B, IAb5C; ; mBAcgbT, MAAMqL, OAAAN, EAAeC, OAAf, EAABwB, gBAABx, EAA0C8C, SAA1C, CAadhB; QAcCtC, UAAUvL, OAAO8K, UAAUrL, MAAMqL, OAAAN, EAAeC, OAAf, EAABwB, aAAxB, CAAV, GAAMd, GAA1D, CAfX; QAgBCE, YAAYjL, OAAOA, OAAOF, eAAe, GAAf, GAAqBLL, MAAMC, YAAN, EAAoBkL, YAAPb, EAAkC, OAAIC, CAA5B, IAA0E, GAAjF, CAhBb; QAIbcgD, aAAa5N, OAAOA, OAAO, SAAP, IAAoB, GAAPb, GAA0BA, OAAO, WAAW+K, OAAIB, CAA1B, GAAuD, GAAvD, GAA6D/K, OAAO, MAAM+K, OAAAN, GAAgBA, OAAvB, CAA7D, GAA+F, GAA/F, GAAqG/K, OAAO, UAAU+K, OAAjB, CAARg, GAAiI, GAAjI, GAAuIA, OAA9I, CAjBd; QAKBC4C, qBAaqB3N, OAAOA, OAAO, SAAP, IAAoB, GAAPb, GAA0BA, OAAO, WAAW+K, OAAIB, CAA1B, GAAuD, GAAvD, GAA6D/K, OAAO, MAAM+K, OAAAN, GAAgBA, OAAvB, CAA7D, GAA+F, GAA/F, GAAqG/K, OAAO, YAAY+K, OAAANb, CAARg, GAAMi, OAAAnI, GAA6IA, OAApJ, CAAlBtB; ; mBAmbgB/K, OAAO2N, qBAaqB, KAARb, GAA6BA, kBAA7B, GAAkD, KAAID, GAA0DA, kBAA1D, GAA+A+E, KAA/E, GAAuFA, kBAA9F, CAnBhB; QAOBCF, OAAOzN, OAAOC, WAAW, OAAIB, CApBR; QAqBCyN, QA AQ1N, OAAOA, OAAOyN, OAAO, KAAP, GAAeA, IAAtB, IAA8B, GAA9B, GAAoC/C, YAAY3C, CArBT; QASBCsC, gBAAgBhN, OAAmEA, OAAOyN, OAAO, KAAAd, IAAuB, KAAvB, GAA+BC, KAAIG, CAtBjB; ; oBAuBiB1N, OAAwD, WAAWA, OAAOyN, OAAO, KAAAd, CAAX, GAAkC, KAAIC, GAA0CC, KAAIG, CAvBjB; ; oBAwBiB1N, OAAOA, OAAwCyN, IAAxC, IAAgD, SAAhD, GAA4DzN, OAAOyN, OAAO, KAAAd, CAA5D, GAAMf, KAAANf, GAA2FC, K

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F,KAaV,CAAgB,GAAhB,CAAhB;6BACK,IAAIInB,KAAL,CAAR,EAAWe,MAAKO,QAAQtC,MAA7B,EAAqCg  
B,KAAIe,GAAzC,EAA6C,EAAEf,EAA/C,EAakD;+BAC9Cf,IAAH,CAAQqC,QAAQtB,EAAR,CAAR;;yBAGG,  
SAAL;yCACkBF,OAAjB,GAA2BS,kBAaKbC,OAAO,CAAP,CAAIB,EAA6BzD,OAA7B,CAA3B;;yBAEI,MAA  
L;yCACkBiC,IAAjB,GAAwBU,kBAaKbC,OAAO,CAAP,CAAIB,EAA6BzD,OAA7B,CAAxB;;yCAGiB,IAAjB;g  
CACQ2C,kBAaKbC,OAAO,CAAP,CAAIB,EAA6BzD,OAA7B,CAAR,IAAiD2C,kBAaKbC,OAAO,CAAP,CAA  
IB,EAA6BzD,OAA7B,CAAjD;;;gBAKcWd,cAAJ,EAAoBxB,iBAAiBH,OAAjB,GAA2BA,OAA3B;;yBAGJZ,KA  
AjB,GAAyBZ,SAAzB;aAEK,IAAI+B,MAAI,CAAR,EAAWe,OAaKhB,GAAGf,MAAxB,EAAgCgB,MAAIe,IAA  
pC,EAAwC,EAAEf,GAA1C,EAA6C;gBACtCiB,OAAOIB,GAAGC,GAaH,EAAMmB,KAAN,CAAY,GAAZ,CA  
Ab;iBAEK,CAAL,IAAUZ,kBAaKbU,KAaK,CAAL,CAAIB,CAAV;gBAEI,CAACrD,QAAQsD,cAAb,EAA6B;;o  
BAExB;yBACE,CAAL,IAAUb,SAASC,OAAT,CAAiBC,kBAaKbU,KAaK,CAAL,CAAIB,EAA2BrD,OAA3B,E  
AAoCD,WAApC,EAAjB,CAAV;iBADD,CAEE,OAAOyC,CAAP,EAAU;qCACMvC,KAaJb,GAAyB+B,iBAAiB  
/B,KAaJb,IAA0B,6EAA6EuC,CAAhI;;aALF,MAOO;qBACD,CAAL,IAAUG,kBAaKbU,KAaK,CAAL,CAAIB,  
EAA2BrD,OAA3B,EAAoCD,WAApC,EAAV;;eAGEqC,GAaH,IAAQiB,KAaKiC,IAAL,CAAU,GAaV,CAAR;;  
eAGMa,gBAAP;KA5DkD;eA+DvC,sBAaUA,gBAAV,EAA6ChC,OAA7C,EAAb;YACQe,aAAaiB,gBAAnB;YA  
CMG,KAaKiB,QAAQpB,iBAAiBG,EAAzB,CAAX;YACIA,EAAJ,EAAQ;iBACF,IAAIC,IAAI,CAAR,EAAWe,  
KAaKhB,GAAGf,MAAxB,EAAgCgB,IAAIe,EAApC,EAAwC,EAAEf,CAA1C,EAA6C;oBACtCS,SAASK,OAA  
Of,GAAGC,CAAH,CAAP,CAAf;oBACMW,QAAQF,OAAOI,WAAp,CAAmB,GAAnB,CAAd;oBACMZ,YAAaQ  
,OAAOC,KAAP,CAAa,CAAb,EAAgBC,KAaHb,CAAD,CAAYxB,OAAzB,CAAiCC,WAAjC,EAA8CC,gBAA9  
C,EAAgEF,OAAhE,CAAwEC,WAAxE,EAAqFE,WAArF,EAAkGH,OAAIG,CAA0GyB,cAA1G,EAA0HpB,UAA  
IH,CAAIB;oBACIU,SAASO,OAAOC,KAAP,CAAaC,QAAQ,CAArB,CAAb;;oBAGI;6BACO,CAAC/C,QAAQu  
C,GAAT,GAAeE,SAASC,OAAT,CAAiBC,kBAaKbL,MAAIb,EAA0BtC,OAA1B,EAAmCD,WAAnc,EAAjB,C  
AAf,GAAoF0C,SAASG,SAAT,CAAmBN,MAAnB,CAA9F;iBADD,CAEE,OAAOE,CAAP,EAAU;+BACAvC,K  
AAX,GAAmBc,WAAWd,KAAX,IAAoB,0DAA0D,CAACD,QAAQuC,GAAT,GAAe,OAAf,GAAyB,SAAnF,IAA  
gG,iBAaH,GAAoHC,CAA3J;;mBAGEJ,CAAH,IAAQc,YAAy,GAAZ,GAaKBC,MAA1B;;uBAGU9B,IAAX,G  
AAk2B,GAAGhB,IAAH,CAAQ,GAAR,CAAIB;;YAGKU,UAAUG,iBAAiBH,OAAjB,GAA2BG,iBAAiBH,OA  
AjB,IAA4B,EAAvE;YAEIG,iBAAiBE,OAARb,EAA8BL,QAAQ,SAAR,IAAQBG,iBAAiBE,OAATc;YAC1BF,iB  
AAiBC,IAArB,EAA2BJ,QAAQ,MAAR,IAAkBG,iBAAiBC,IAAnC;YAErBf,SAAS,EAAf;aACK,IAAMI,IAAX,I  
AAmBO,OAAAnB,EAA4B;gBACvBA,QAAQP,IAAR,MAAkBS,EAAET,IAAF,CAAtB,EAA+B;uBACvBD,IAAP,

CACCC,KAARKC,OAAL,CAAaC,WAAAb,EAA0BC,gBAA1B,EAA4CF,OAA5C,CAAoDC,WAApD,EAAiEE,WA  
AjE,EAA8EH,OAA9E,CAAsFI,UAAtF,EAAkGC,UAAIG,IACA,GADA,GAEAC,QAAQP,IAAR,EAACc,OAAd,  
CAAsBC,WAAtB,EAAMCC,gBAAAnC,EAAqDF,OAArD,CAA6DC,WAA7D,EAA0EE,WAA1E,EAAuFH,OAAv  
F,CAA+FO,WAA/F,EAA4GF,UAA5G,CAHD;;;YAOEV,OAAOE,MAAX,EAAMb;uBACPH,KAAX,GAAMBC,  
OAAOC,IAAP,CAAY,GAAZ,CAAnB;;eAGMJ,UAAP;;CAzGF,CA6GA;;ADnKA,IAAMC,YAAY,iBAAIB;AAC  
A,AAEA;AACa,IAAMV,YAAqD;YACjD,KADiD;WAGID,kBAAUS,UAAV,EAAoCf,OAApC,EAAT;YACQc,U  
AAUC,WAAWP,IAAX,IAAmBO,WAAWP,IAAX,CAAgBL,KAAhB,CAAsBa,SAAtB,CAAnC;YACIpB,gBAAg  
BmB,UAApB;YAEID,OAAJ,EAAa;gBACNvB,SAASS,QAAQT,MAAR,IAAkBK,cAAcL,MAAhC,IAA0C,KAAz  
D;gBACmKB,MAAMK,QAAQ,CAAR,EAAWf,WAAx,EAAZ;gBACMF,MAAMiB,QAAQ,CAAR,CAAZ;gBAC  
MF,YAAerB,MAAf,UAAyBS,QAAQS,GAAR,IAAeA,GAAXC,CAAN;gBACMC,gBAAgBrB,QAAQuB,SAAR,C  
AAtB;0BAEcH,GAAAd,GAAoBA,GAAPB;0BACcZ,GAAAd,GAAoBA,GAAPB;0BACcW,IAAd,GAAqBH,SAARb;  
gBAEIK,aAAJ,EAAMb;gCACFA,cAAcG,KAAd,CAAoBjB,aAaPb,EAAMCI,OAAAnC,CAAhB;;SAZF,MAcO;0B  
ACQC,KAAd,GAAsBL,cAAcK,KAAd,IAAuB,wBAA7C;;eAGML,aAAP;KAZByD;eA4B9C,sBAUA,aAAV,EA  
AuCI,OAAvC,EAAb;YACQT,SAASS,QAAQT,MAAR,IAAkBK,cAAcL,MAAhC,IAA0C,KAAzD;YACmKB,MA  
AMb,cAAca,GAA1B;YACMG,YAAerB,MAAf,UAAyBS,QAAQS,GAAR,IAAeA,GAAXC,CAAN;YACMC,gBA  
AgBrB,QAAQuB,SAAR,CAAtB;YAEIF,aAAJ,EAAMb;4BACFA,cAAcC,SAAd,CAAwBf,aAAxB,EAACI,OAA  
vC,CAAhB;;YAGKO,gBAAgBX,aAAtB;YACMC,MAAMD,cAAcC,GAA1B;sBACcW,IAAd,IAAwBC,OAAOT,  
QAAQS,GAAvC,UAA8CZ,GAA9C;eAEOU,aAAP;;CA1CF,CA8CA;;AD5DA,IAAMH,OAAO,0DAAb;AACa,A  
AEA;AACa,IAAME,YAASe;YACIE,UADkE;WAGnE,eAAUV,aAAV,EAACI,OAAvC,EAAT;YACQF,iBAAiB  
F,aAAvB;uBACeN,IAAf,GAAsBQ,eAAeD,GAARc;uBACeA,GAaf,GAAqBQ,SAARb;YAEI,CAACL,QAAQE,Q  
AAT,KAAAsB,CAACJ,eAAeR,IAAhB,IAAwB,CAACQ,eAAeR,IAAf,CAAoBa,KAAPB,CAA0BC,IAA1B,CAA/C,  
CAAJ,EAAqF;2BACrEH,KAAf,GAAuBH,eAAeG,KAAf,IAAwB,oBAA/C;;eAGMH,cAAP;KAZ0E;eAe/D,mBA  
AUA,cAAV,EAAyCE,OAAzC,EAAb;YACQJ,gBAAgBE,cAAtB;;sBAEcD,GAAAd,GAAoB,CAACC,eAAeR,IAAf  
,IAAuB,EAAXB,EAA4BS,WAA5B,EAAPB;eACOH,aAAP;;CAnBF,CAuBA;;ADhCAP,QAAQM,QAACKJ,MAAb,  
IAAuBI,OAAvB;AAEA,AACAN,QAAQK,UAAMH,MAAd,IAAwBG,SAAXB;AAEA,AACAL,QAAQI,UAAOF,  
MAAf,IAAyBE,SAAZB;AAEA,AACAJ,QAAQG,UAAID,MAAZ,IAAsBC,SAAtB;AAEA,AACAH,QAAQC,UA  
AKC,MAAb,IAAuBD,SAAvB,CAEA;;;;;;;;;;;;;;;;;;;;;;"}

Found in path(s):

```
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.js.map
```

No license file was found, but licenses were detected in source scan.

```
import resolve from 'rollup-plugin-node-resolve';
import babel from 'rollup-plugin-babel';
const packageJson = require('./package.json');
```

```
export default {
  entry : "dist/esnext/index.js",
  format : "umd",
  moduleName : "URI",
  plugins: [
    resolve({
      module: true,
      jsnext: true,
      preferBuiltins: false
    })
  ],
}
```

```

babel({
  "presets": [
    ["latest", {
      "es2015": {
        "modules": false
      }
    }
  ]
},
  "plugins": ["external-helpers"],
  "externalHelpers": false
}
)
],
dest : "dist/es5/uri.all.js",
sourceMap: true,
banner: "/* @license URI.js v" + packageJson.version + " (c) 2011 Gary Court. License:
http://github.com/garycourt/uri-js */"
}

```

Found in path(s):

```
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/rollup.config.js
```

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```
/**
```

```
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```

```
*
```

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Found in path(s):

\* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/esnext/uri.js  
\* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/src/uri.ts

## 1.453 v8flags 2.1.1

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## 1.454 python-cached-property 1.4.3

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## 1.455 hiredis 0.2.0

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## 1.456 nettle 3.5.1

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## 1.458 babel-plugin-transform-es2015-typeof-symbol 6.23.0

## 1.459 ajv-keywords 3.4.0

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## 1.460 persistent 0.15.6

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