

purl API Documentation

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Parse and print *Uniform Resource Locators* as defined in *RFC 1738* (<http://tools.ietf.org/html/rfc1738>).

1.1 URL Designators

A *url designator* is a value accepted by the *url function*. E.g. a *url*, a *string* or a *pathname*.

1.2 make-url (Function)

Syntax:

— Function: **make-url** *scheme* &key *address* *user* *password* *host* *port* *path*

Arguments and Values:

scheme—a *keyword* denoting a URL scheme.

address—a *string* denoting a URL address for *scheme* or *nil*. The default is *nil*.

user, *password*, *host*—*strings* denoting a user name, password or host-name respectively or *nil*. The default is *nil*.

path—a *string* or a *pathname*.

port—a positive *integer* denoting a port number or *nil*. The default is *nil*.

Description:

`make-url` returns a fresh *url* of *scheme*. *Address* is used as the URL's address if supplied. Otherwise the URL's address will use *Common Internet Scheme Syntax*¹ and its address is composed of the *user*, *password*, *host*, *port* and *path* components.

See Also:

- 1. *Common Internet Scheme Syntax* (<http://tools.ietf.org/html/rfc1738#section-3.1>)

1.3 url (Function)

Syntax:

— Function: **url** *urlspec*

Arguments and Values:

urlspec—a *string*, a *pathname* or a *url*.

Description:

`url` returns the *url* denoted by *urlspec*. When *urlspec* is a string, `url` will attempt to parse *urlspec* as a URL. When *urlspec* is a *pathname*, `url` will return an equivalent *url* using the `:file` scheme.

Exceptional Situations:

An error of *type* `malformed-url` is signaled when *urlspec* is a *string* and can not be parsed as a URL.

An error of *type* `type-error` is signaled when *urlspec* is a *pathname* using a host component which is not a defined logical host.

1.4 `url` (Type)

A *url* is a structured *object* which represents a *Uniform Resource Locator* (URL).

1.5 `url-address` (Function)

Syntax:

— Function: `url-address url`

Arguments and Values:

url—a *url* designator.

Description:

`url-address` returns a *string* denoting the address part of *url*.

1.6 `url-decode` (Function)

Syntax:

— Function: `url-decode string`

Arguments and Values:

string—a `_string`.

Description:

`url-decode` decodes encoded *string* using *Percent-Encoding*¹.

See Also:

- 1. *Percent-Encoding* (<http://tools.ietf.org/html/rfc3986#section-2.1>)

1.7 url-encode (Function)

Syntax:

— Function: **url-encode** *string*

Arguments and Values:

string—a *_string*.

Description:

`url-encode` encodes *string* using *Percent-Encoding*¹.

See Also:

- 1. *Percent-Encoding* (<http://tools.ietf.org/html/rfc3986#section-2.1>)

1.8 url-host (Function)

Syntax:

— Function: **url-host** *url*

Arguments and Values:

url—a *url* designator.

Description:

`url-host` returns a *string* denoting the host part of *url*.

1.9 url-p (Function)

Syntax:

— Function: **url-p** *object*

Arguments and Values:

object—an *object*.

Description:

`url-p` returns *true* if *object* is of *type* `url`; otherwise, returns *false*.

1.10 url-password (Function)

Syntax:

— Function: **url-password** *url*

Arguments and Values:

url—a *url* designator.

Description:

`url-password` returns a *string* denoting the password part of *url*.

1.11 url-path (Function)

Syntax:

— Function: **url-path** *url*

Arguments and Values:

url—a *url* designator.

Description:

`url-path` returns a *string* denoting the path part of *url*.

1.12 url-port (Function)

Syntax:

— Function: **url-port** *url*

Arguments and Values:

url—a *url* designator.

Description:

`url-port` returns a non-negative *integer* denoting the port part of *url*.

1.13 url-scheme (Function)

Syntax:

— Function: **url-scheme** *url*

Arguments and Values:

url—a *url* designator.

Description:

`url-scheme` returns a *keyword* denoting the scheme part of *url*.

1.14 url-string (Function)

Syntax:

— Function: **url-string** *url*

Arguments and Values:

url—a *url* designator.

Description:

`url-string` returns a *string* representation of *url*.

1.15 url-user (Function)

Syntax:

— Function: **url-user** *url*

Arguments and Values:

url—a *url* designator.

Description:

`url-user` returns a *string* denoting the user part of *url*.

1.16 url= (Function)

Syntax:

— Function: **url=** *url1 url2*

Arguments and Values:

url1, url2—*urls*.

Description:

`url=` returns *true* if *url1* and *url2* are equal; otherwise, returns *false*.