

cookie egg

A library for parsing and constructing HTTP cookies
Extension for Chicken Scheme
Version 1.1

Shiro Kawai, ported to Chicken by Reed Sheridan

Table of Contents

1	About this egg	1
1.1	Version history	1
1.2	Usage	1
2	Documentation	2
3	Examples.....	4
4	License	5
	Index	6

1 About this egg

1.1 Version history

- 1.1 Fix bugs related to quoting output of `construct-cookie-string`
- 1.0 Initial release

1.2 Usage

Load this egg like so:

```
(require-extension cookie)
```

2 Documentation

`parse-cookie-string` [procedure]

`(parse-cookie-string string [#!optional version])`

Parse a cookie string `string`, which is the value of the "Cookie" request header. Usually, this information is available to a CGI program via the environment variable `HTTP_COOKIE`.

If the cookie version is known, via the "Cookie2" request header, the integer version must be passed to `version`. Otherwise, `parse-cookie` figures out the version from `string`.

The result has the following format.

`((<name> <value> [path: <path>] [domain: <domain>] [port: <port>])) ...)`

where `<name>` is the attribute name, and `<value>` is the corresponding value. If the attribute doesn't have value, `<value>` is `#f`. (Note that it differs from the attribute having null value, `""`.) If the attribute has path, domain or port options, it is given as a form of keyword-value pair.

`construct-cookie-string` [procedure]

`(construct-cookie-string specs [#!optional version])`

Given list of cookie specs, creates a cookie string suitable for `Set-cookie2` or `Set-cookie` header.

Optional version argument specifies cookie protocol version. 0 for the old Netscape style format, and 1 for RFC2965 style format. When omitted, version 1 is assumed.

Each cookie spec has the following format.

`(<name> <value> [comment: <comment>] [comment-url: <url>] [discard:
<bool>] [domain: <domain>] [max-age: <age>] [path: <path>] [port:
<port-list>] [secure: <bool>] [version: <version>] [expires: <date>])`

Where,

`<name>` A string. Name of the cookie.

`<value>` Value of the cookie. May be a string, or `#f` if no value is needed.

`<comment>` `<url>` `<domain>` `<path>` `<port-list>`
Strings.

`<bool>` Boolean value

`<age>` `<version>`
Integers

`<date>` Either an integer (seconds since Epoch) or a formatted date string following the netscape cookie specification.

The attribute values are quoted appropriately. If the specified attribute is irrelevant for the version, it is ignored. So you can pass the same specs to generate both old-style and new-style cookie strings.

Return value is a list of cookie strings, each of which stands for each cookie. For old-style protocol (using Set-cookie header) you must send each of them by individual header. For new-style protocol (using Set-cookie2 header), you can join them with comma and send it at once. See RFC2965 for further details.

3 Examples

```
(construct-cookie-string '(("name" "foo" domain: "foo.com" path: "/"
                           expires: ,(+ (sys-time) 86400) max-age: 86400)))
=> ("name=foo;Domain=foo.com;Path=/;Max-age=86400")

(construct-cookie-string '(("name" "foo" domain: "foo.com" path: "/"
                           expires: ,(+ (sys-time) 86400) max-age: 86400)) 0)
=> ("name=foo;Domain=foo.com;Path=/;Expires=Sun, 09-Sep-2001 01:46:40 GMT")
```

4 License

Copyright (c) 2000-2003 Shiro Kawai, All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the authors nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Index

C

construct-cookie-string 2

P

parse-cookie-string..... 2