

## CGI Class Methods:

Here is a list of CGI Class methods:

| SN | Methods with Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | <b>CGI::new</b> [ <i>level</i> = " <i>query</i> " ]<br><br>Creates a CGI object. <i>level</i> may be one of the following options. If one of the HTML levels is specified, the following methods are defined for generating output conforming to that level: <ul style="list-style-type: none"><li>• <b>query</b>: No HTML output generated</li><li>• <b>html3</b>: HTML3.2</li><li>• <b>html4</b>: HTML4.0 Strict</li><li>• <b>html4Tr</b>: HTML4.0 Transitional</li><li>• <b>html4Fr</b>: HTML4.0 Frameset</li></ul> |
| 2  | <b>CGI::escape</b> <i>str</i><br><br>Escapes an unsafe string using URL-encoding.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3  | <b>CGI::unescape</b> <i>str</i><br><br>Expands a string that has been escaped using URL-encoding.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 4  | <b>CGI::escapeHTML</b> <i>str</i><br><br>Escapes HTML special characters, including: & < >.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5  | <b>CGI::unescapeHTML</b> <i>str</i><br><br>Expands escaped HTML special characters, including: & < >.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 6  | <b>CGI::escapeElement</b> <i>str</i> [, <i>element</i> . . . ]<br><br>Escapes HTML special characters in the specified HTML elements.                                                                                                                                                                                                                                                                                                                                                                                  |
| 7  | <b>CGI::unescapeElement</b> <i>str</i> , <i>element</i> [, <i>element</i> . . . ]<br><br>Expands escaped HTML special characters in the specified HTML elements.                                                                                                                                                                                                                                                                                                                                                       |
| 8  | <b>CGI::parsequery</b><br><br>Parses the query and returns a hash containing its key-value pairs.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 9  | <b>CGI::prettystring</b> [, <i>leader</i> = "" ]<br><br>Returns a neatly formatted version of the HTML string. If <i>leader</i> is specified, it's written at the beginning of each line. The default value for <i>leader</i> is two spaces.                                                                                                                                                                                                                                                                           |

## 10 CGI::rfc1123\_datetime

Formats the data and time according to RFC-1123 *forexample, Tue, 2Jun200800:00:00GMT.*

## CGI Instance Methods:

Assuming **c** is an instance created by *CGI::new*. Now, here is a list of methods, which can be applied to this instance:

| SN | Methods with Description                                                                                                                                                                                                                                                         |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | <b>c[ name]</b><br>Returns an array containing the value of the field name corresponding to <i>name</i> .                                                                                                                                                                        |
| 2  | <b>c.checkboxname[, value[, check = false]]</b><br><b>c.checkboxoptions</b><br>Returns an HTML string defining a checkbox field. Tag attributes may be specified in a hash passed as an argument.                                                                                |
| 3  | <b>c.checkbox_groupname, value. . .</b><br><b>c.checkbox_groupoptions</b><br>Returns an HTML string defining a checkbox group. Tag attributes may be specified in a hash passed as an argument.                                                                                  |
| 4  | <b>c.file_fieldname[, size = 20[, max]]</b><br><b>c.file_fieldoptions</b><br>Returns an HTML string defining a file field.                                                                                                                                                       |
| 5  | <b>c.form[method = " post " [, url]] { ...}</b><br><b>c.formoptions</b><br>Returns an HTML string defining a form. If a block is specified, the string produced by its output creates the contents of the form. Tag attributes may be specified in a hash passed as an argument. |
| 6  | <b>c.cookies</b><br>Returns a hash containing a CGI::Cookie object containing keys and values from a cookie.                                                                                                                                                                     |
| 7  | <b>c.header[header]</b><br>Returns a CGI header containing the information in header. If header is a hash, its key-value pairs are used to create the header.                                                                                                                    |
| 8  | <b>c.hiddenname[, value]</b><br><b>c.hiddenoptions</b><br>Returns an HTML string defining a HIDDEN field. Tag attributes may be specified in a hash passed as an argument.                                                                                                       |
| 9  | <b>c.image_buttonurl[, name[, alt]]</b><br><b>c.image_buttonoptions</b>                                                                                                                                                                                                          |

Returns an HTML string defining an image button. Tag attributes may be specified in a hash passed as an argument.

10 **c.keys**

Returns an array containing the field names from the form.

11 **c.key?***name*  
**c.has\_key?***name*  
**c.include?***name*

Returns true if the form contains the specified field name.

12 **c.multipart\_form**[*url*[, *encode*]] { ...}  
**c.multipart\_formoptions** { ...}

Returns an HTML string defining a multipart form. If a block is specified, the string produced by its output creates the contents of the form. Tag attributes may be specified in a hash passed as an argument.

13 **c.out**[*header*] { ...}

Generates HTML output. Uses the string produced by the block's output to create the body of the page.

14 **c.params**

Returns a hash containing field names and values from the form.

15 **c.params= hash**

Sets field names and values in the form using a hash.

16 **c.password\_field***name*[, *value*[, *size* = 40[, *max*]]]  
**c.password\_fieldoptions**

Returns an HTML string defining a password field. Tag attributes may be specified in a hash passed as an argument.

17 **c.popup\_menu***name, value. . .*  
**c.popup\_menuoptions**  
**c.scrolling\_list***name, value. . .*  
**c.scrolling\_listoptions**

Returns an HTML string defining a pop-up menu. Tag attributes may be specified in a hash passed as an argument.

18 **c.radio\_button***name*[, *value*[, *checked* = *false*]]  
**c.radio\_buttonoptions**

Returns an HTML string defining a radio button. Tag attributes may be specified in a hash passed as an argument.

19 **c.radio\_group***name, value. . .*  
**c.radio\_groupoptions**

Returns an HTML string defining a radio button group. Tag attributes may be specified in a hash passed as an argument.

- 20 **c.resetname[, value]**  
**c.resetoptions**
- Returns an HTML string defining a reset button. Tag attributes may be specified in a hash passed as an argument.
- 21 **c.text\_field**  
*name[, value[, size = 40[, max]]]*
- c.text\_fieldoptions**
- Returns an HTML string defining a text field. Tag attributes may be specified in a hash passed as an argument.
- 22 **c.textarea**  
*name[, cols = 70[, rows = 10]] { ...}*
- c.textareaoptions { ...}**
- Returns an HTML string defining a text area. If a block is specified, the string produced by its output creates the contents of the text area. Tag attributes may be specified in a hash passed as an argument.

## HTML Generation Methods:

You can create any HTML tag by using corresponding HTML tag name along with any CGI instance. For example:

```
#!/usr/bin/ruby

require "cgi"
cgi = CGI.new("html4")
cgi.out{
  cgi.html{
    cgi.head{ "\n"+cgi.title{"This Is a Test"} } +
    cgi.body{ "\n"+
      cgi.form{"\n"+
        cgi.hr +
        cgi.h1 { "A Form: " } + "\n"+
        cgi.textarea("get_text") + "\n"+
        cgi.br +
        cgi.submit
      }
    }
  }
}
```

## CGI Object Attributes:

You can access any of the following attributes using a CGI instance:

| Attribute       | Returned Value           |
|-----------------|--------------------------|
| accept          | Acceptable MIME type     |
| accept_charset  | Acceptable character set |
| accept_encoding | Acceptable encoding      |
| accept_language | Acceptable language      |

|                   |                                       |
|-------------------|---------------------------------------|
| auth_type         | Authentication type                   |
| raw_cookie        | Cookie data <i>rawstring</i>          |
| content_length    | Content length                        |
| content_type      | Content type                          |
| From              | Client e-mail address                 |
| gateway_interface | CGI version string                    |
| path_info         | Extra path                            |
| path_translated   | Converted extra path                  |
| Query_string      | Query string                          |
| referer           | Previously accessed URL               |
| remote_addr       | Client host address                   |
| remote_host       | Client hostname                       |
| remote_ident      | Client name                           |
| remote_user       | Authenticated user                    |
| request_method    | Request method <i>GET, POST, etc.</i> |
| script_name       | Program name                          |
| server_name       | Server name                           |
| server_port       | Server port                           |
| server_protocol   | Server protocol                       |
| server_software   | Server software                       |
| user_agent        | User agent                            |

Processing math: 100%