
irclog Documentation

Release 0.2.0

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Mar 24, 2017

Contents

1 Getting started	3
1.1 How to install	3
1.2 How to run the web server	3
1.3 How to use your WSGI server	4
2 irclog — IRC log viewer	5
2.1 irclog.messages — Various message types	5
2.2 irclog.parser — IRC log parser	10
2.3 irclog.archive — IRC log archive	11
2.4 irclog.web — Web IRC log view	16
2.5 irclog.web.server — Built-in web server	19
2.6 irclog.tests — Unit tests	19
2.7 irclog.version — Version info	20
3 About distribution	21
4 Indices and tables	23
Python Module Index	25

irclog is a web viewer of logs [Irssi](#) generates. It has a WSGI interface and a built-in server both. If you don't know about WSGI and just want to use this log viewer, follow this: [*Getting started*](#).

CHAPTER 1

Getting started

How to install

`irclog` is wholly written in [Python](#), so you have to install Python on your system if it isn't installed yet.

It depends on some Python libraries also, but its install resolves the dependencies automatically. You can install `irclog` through `easy_install` or `pip`:

```
$ pip install irclog
$ # ... or:
$ easy_install irclog
```

How to run the web server

It has a built-in web server. What you have to do is just to use it. (Assume that IRC logs are stored in `.irssi/log/` of your home directory.)

```
$ python -m irclog.web.server \
    -p 80 \
    $HOME/.irssi/log/<server>/<channel>/<date:>%Y-%m-%d>.log
```

Note: `<server>`, `<channel>` and `<date:>...` are placeholders.

Then go <http://localhost/> in your web browser.

See also:

Module `irclog.web.server`

How to use your WSGI server

Note: Ignore this if you don't understand what this is.

If there's your preferred WSGI server like `mod_wsgi` or `uWSGI`, you can server irclog on your WSGI server.

```
import os
import os.path
import irclog.web

path = os.path.join(os.environ["HOME"],
                    ".irssi/log/<server>/<channel>/<date:%Y-%m-%d>.log")
app = irclog.web.Application(path)
```

See also:

Package `irclog.web`

CHAPTER 2

irclog — IRC log viewer

irclog.messages — Various message types

Hierarchy

It provides a hierarchy of IRC log message types.

- *BaseMessage*
 - *Message*
 - *PublicMessage*
 - *ActionMessage*
 - *NoticeMessage*
 - *BaseNickMessage*
 - *NickMessage*
 - *SelfNickMessage*
 - *JoinMessage*
 - *ModeMessage*
 - *PartMessage*
 - *QuitMessage*
 - *KickMessage*
 - *BaseTopicMessage*
 - *TopicMessage*
 - *NoTopicMessage*

Objects

class `irclog.messages.BaseMessage (messaged_at)`
Bases: `object`

Abstract base type for all IRC log messages.

Parameters `messaged_at (datetime.datetime)` – a `datetime.datetime` logged
`messaged_at`
The naive `datetime.datetime` logged.

class `irclog.messages.Message (messaged_at, nick, line)`
Bases: `irclog.messages.BaseMessage`

Abstract base type for `PublicMessage`, `ActionMessage` and `NoticeMessage`.

Parameters

- `messaged_at (datetime.datetime)` – a `datetime.datetime` logged
- `nick (basestring)` – a nickname
- `line (basestring)` – a message body

nick

The nickname.

line

The message body.

class `irclog.messages.PublicMessage (messaged_at, nick, line)`

Bases: `irclog.messages.Message`

Most commonly used message type.

Parameters

- `messaged_at (datetime.datetime)` – a `datetime.datetime` logged
- `nick (basestring)` – a nickname
- `line (basestring)` – a message body

class `irclog.messages.ActionMessage (messaged_at, nick, line)`

Bases: `irclog.messages.Message`

ACTION message type.

Parameters

- `messaged_at (datetime.datetime)` – a `datetime.datetime` logged
- `nick (basestring)` – a nickname
- `line (basestring)` – a message body

class `irclog.messages.NoticeMessage (messaged_at, nick, line, channel)`

Bases: `irclog.messages.Message`

Notice message type.

Parameters

- `messaged_at (datetime.datetime)` – a `datetime.datetime` logged
- `nick (basestring)` – a nickname

- **line** (basestring) – a message body
- **channel** (basestring) – a channel name

channel

The channel name.

class irclog.messages.**BaseNickMessage** (*messaged_at, to*)

Bases: *irclog.messages.BaseMessage*

Abstract base type for nickname changing message types.

Parameters

- **messaged_at** (datetime.datetime) – a datetime.datetime logged
- **to** (basestring) – a new nickname

to

The new nickname.

class irclog.messages.**NickMessage** (*messaged_at, from_, to*)

Bases: *irclog.messages.BaseNickMessage*

Nickname changing message type.

Parameters

- **messaged_at** (datetime.datetime) – a datetime.datetime logged
- **from** (basestring) – a old nickname
- **to** (basestring) – a new nickname

from_

The old nickname.

class irclog.messages.**SelfNickMessage** (*messaged_at, to*)

Bases: *irclog.messages.BaseNickMessage*

My nickname chaning message type.

Parameters

- **messaged_at** (datetime.datetime) – a datetime.datetime logged
- **to** (basestring) – a new nickname

class irclog.messages.**JoinMessage** (*messaged_at, nick, ident, channel*)

Bases: *irclog.messages.BaseMessage*

Join message type.

Parameters

- **messaged_at** (datetime.datetime) – a datetime.datetime logged
- **nick** (basestring) – a nickname
- **ident** (basestring) – an ident
- **channel** (basestring) – a channel name

nick

The nickname.

ident

The ident.

channel

The channel name.

class `irclog.messages.ModeMessage` (`messaged_at`, `server`, `channel`, `modelist`, `nick`)

Bases: `irclog.messages.BaseMessage`

MODE message type.

Parameters

- **messaged_at** (`datetime.datetime`) – a `datetime.datetime` logged
- **server** (`basestring`) – a server
- **channel** (`basestring`) – a channel name
- **modelist** – a mode list
- **nick** (`basestring`) – a nickname

server

The server.

channel

The channel name.

modelist

The mode list.

nick

The nickname.

class `irclog.messages.PartMessage` (`messaged_at`, `nick`, `ident`, `channel`, `reason`)

Bases: `irclog.messages.BaseMessage`

PART message type.

Parameters

- **nick** (`basestring`) – a nickname
- **ident** (`basestring`) – an ident
- **channel** (`basestring`) – a channel name
- **reason** (`basestring`) – a reason

nick

The nickname.

ident

The ident.

channel

The channel name.

reason

The reason.

class `irclog.messages.QuitMessage` (`messaged_at`, `nick`, `ident`, `reason`)

Bases: `irclog.messages.BaseMessage`

Quiting message type.

Parameters

- **nick** (`basestring`) – a nickname

- **ident** (basestring) – an ident
- **reason** (basestring) – a reason

nick

The nickname.

ident

The ident.

reason

The reason.

class irclog.messages.**KickMessage** (*messaged_at, nick, channel, by, reason*)

Bases: *irclog.messages.BaseMessage*

Kick message type.

Parameters

- **nick** (basestring) – a nickname that was kicked
- **channel** (basestring) – a channel name
- **by** (basestring) – a nickname that kicks
- **reason** (basestring) – a reason

nick

The nickname that was kicked.

channel

The channel name.

by

The nickname that kicks.

reason

The reason.

class irclog.messages.**BaseTopicMessage** (*messaged_at, nick, channel*)

Bases: *irclog.messages.BaseMessage*

Abstract base class for topic changing message types.

Parameters

- **messaged_at** (datetime.datetime) – a datetime.datetime logged
- **nick** (basestring) – a nickname
- **channel** (basestring) – a channel name

nick

The nickname.

channel

The channel name.

class irclog.messages.**TopicMessage** (*messaged_at, nick, channel, topic*)

Bases: *irclog.messages.BaseTopicMessage*

Topic changing message types.

Parameters

- **messaged_at** (datetime.datetime) – a datetime.datetime logged

- **nick** (basestring) – a nickname
- **channel** (basestring) – a channel name
- **topic** (basestring) – a new topic

topic

The new topic

`class irclog.messages.NoTopicMessage(messaged_at, nick, channel)`

Bases: `irclog.messages.BaseTopicMessage`

Empty topic message types.

Parameters

- **messaged_at** (datetime.datetime) – a `datetime.datetime` logged
- **nick** (basestring) – a nickname
- **channel** (basestring) – a channel name

irclog.parser — IRC log parser

This module provides a function which takes lines of log then transforms it to message objects in `irclog.messages` module.

`irclog.parser.PATTERN`

The `re` pattern matches to a line of IRC log message.

Note: This regular expression is originally written by Kang Seonghoon aka *lifhrasiir*. This pattern is posted in an article of LangDev.

`irclog.parser.parse(lines, date=None, encoding='utf-8')`

Transforms lines of log to message objects in `irclog.messages` module.

Parameters

- **lines** (iterable object, file object) – lines of code
- **date** (datetime.date) – a date of the log. default is today
- **encoding** – a text encoding. default is "utf-8"

Returns a list of `irclog.messages.BaseMessage` instances

Note: This is exactly a generator function.

`irclog.parser.parser(function)`

Registers a parser function.

Parameters `function(callable object)` – a function parses to register

Returns passed function

`irclog.parser.nickmsg(when, nickfrom, nickto, **_)`

Parses `irclog.messages.NickMessage`.

`irclog.parser.selfnickmsg(when, selfnickto, **_)`

Parses `irclog.messages.SelfNickMessage`.

```
irclog.parser.joinmsg(when, joinnick, joinident, joinchan, **_)
    Parses irclog.messages.JoinMessage.

irclog.parser.modemsg(when, modeserver, modechan, modelist, modenick, **_)
    Parses irclog.messages.ModeMessage.

irclog.parser.partmsg(when, partnick, partident, partchan, partreason, **_)
    Parses irclog.messages.PartMessage.

irclog.parser.quitmsg(when, quitnick, quitident, quitreason, **_)
    Parses irclog.messages.QuitMessage.

irclog.parser.kickmsg(when, kicknick, kickchan, kickby, kickreason, **_)
    Parses irclog.messages.KickMessage.

irclog.parser.topicmsg(when, topicnick, topicchan, topicline, **_)
    Parses irclog.messages.TopicMessage.

irclog.parser.notopicmsg(when, notopicnick, notopicchan, **_)
    Parses irclog.messages.NoTopicMessage.

irclog.parser.pubmsg(when, pubnick, publine, **_)
    Parses irclog.messages.PublicMessage.

irclog.parser.actmsg(when, actnick, actline, **_)
    Parses irclog.messages.ActionMessage.

irclog.parser.noticemsg(when, noticenick, noticechan, noticeline, **_)
    Parses irclog.messages.ActionMessage.
```

irclog.archive — IRC log archive

`irclog.archive.STRPTIME_TO_GLOB`
The table for translating `strftime()` directives to `glob` patterns.

`irclog.archive.STRPTIME_DIRECTIVE_PATTERN`
The `re` pattern object that matches to `strftime()` directives.

```
>>> fmtstr = "%Y-%m-%d"
>>> STRPTIME_DIRECTIVE_PATTERN.sub(lambda m: STRPTIME_TO_GLOB[m.group(0)],
...                                         _fmtstr)
'[0-9][0-9][0-9][0-9]-[01][0-9]-[0-3][0-9]'
```

`class irclog.archive.FilenamePattern(pattern)`
Bases: `object`

The glob-like, but specialized to IRC log files, filename pattern matcher.

```
>>> pattern = FilenamePattern("/logs/<server>"
...                               "</channel>.<date:&%Y-%m-%d>.log")
>>> pattern.glob_pattern_string()
'/logs/**.[0-9][0-9][0-9][0-9]-[01][0-9]-[0-3][0-9].log'
>>> pattern.glob_pattern_string(server="Freenode")
'/logs/Freenode/**.[0-9][0-9][0-9][0-9]-[01][0-9]-[0-3][0-9].log'
```

REPLACER_PATTERN

The pattern of replacer e.g. `<date:&%Y-%m-%d>, <channel>`.

```
replacer ::= ``<'' name [ ':' format ] ``>''
name      ::= /[A-Za-z_]+/
format    ::= /[>]*/
```

replacers

The list of replacers.

```
>>> pattern = FilenamePattern("/logs/<server>"
...                               "<channel>.<date:%Y-%m-%d>.log")
>>> list(pattern.replacers)
['server', 'channel', 'date']
```

replacer_pairs

The list of replacers' (name, format). (For replacers have no format, (name, None).)

```
>>> pattern = FilenamePattern("/logs/<server>"
...                               "<channel>.<date:%Y-%m-%d>.log")
>>> list(pattern.replacer_pairs)
[('server', None), ('channel', None), ('date', '%Y-%m-%d')]
```

replacer_dict

The `dict` of replacers.

```
>>> pattern = FilenamePattern("/logs/<server>"
...                               "<channel>.<date:%Y-%m-%d>.log")
>>> pattern.replacer_dict["server"]
>>> pattern.replacer_dict["date"]
'%Y-%m-%d'
>>> pattern.replacer_dict["xyz"]
Traceback (most recent call last):
...
KeyError: 'xyz'
```

fill_replacers(replacers, escape=None)

Fills replacers with given values.

```
>>> pattern = FilenamePattern("/logs/<server>"
...                               "<channel>.<date:%Y-%m-%d>.log")
>>> import datetime
>>> pattern.fill_replacers({"server": "Freenode",
...                           "channel": "#hongminhee",
...                           "date": datetime.date(2010, 8, 4)})
'/logs/Freenode/#hongminhee.2010-08-04.log'
```

When `escape` function has given, non-replacers are applied into the function:

```
>>> pattern.fill_replacers({"server": "Freenode",
...                           "channel": "#hongminhee",
...                           "date": datetime.date(2010, 8, 4),
...                           "escape": lambda x: x.upper()})
'/LOGS/Freenode/#hongminhee.2010-08-04.LOG'
```

It may raise `KeyError` when too few replacers has given:

```
>>> pattern.fill_replacers({"server": "Freenode"})
Traceback (most recent call last):
```

```
...
KeyError: 'channel'
```

Parameters `replacers` (`dict`, mapping object) – a mapping object of (`replacer_name`, `str_to_replace`)

Returns a filled filename

glob_pattern_string (`**replacers`)

Generates a `glob` pattern string. It takes keyword arguments of replacers to fill also.

```
>>> pattern = irclog.pattern("/logs/<server>"  
...                               "/<channel>.<date:>%Y-%m-%d>.log")  
>>> pattern.glob_pattern_string()  
'/logs/*/*.0[0-9]0[0-9]0[0-9]0[0-9]-[01]0[0-9]-[0-3]0[0-9].log'  
>>> pattern.glob_pattern_string(server="Freenode")  
'/logs/Freenode/*/*.0[0-9]0[0-9]0[0-9]0[0-9]-[01]0[0-9]-[0-3]0[0-9].log'  
>>> pattern.glob_pattern_string(channel="#hongminhee")  
'/logs/*/#hongminhee.0[0-9]0[0-9]0[0-9]0[0-9]-[01]0[0-9]-[0-3]0[0-9].log'  
>>> import datetime  
>>> pattern.glob_pattern_string(date=datetime.date(2010, 8, 4))  
'/logs/*/.2010-08-04.log'
```

Parameters `**replacers` – replacers to fill. keywords go replacer names and values fills them

Returns a glob pattern string

glob (`**replacers`)

Globs with the pattern.

Parameters `**replacers` – replacers to fill. keywords go replacer names and values fills them

Returns a `list` of all matched paths

See also:

- Module `glob`
- Function `glob.glob()`

iglob (`**replacers`)

Case-insensitive version of `glob()`.

Parameters `**replacers` – replacers to fill. keywords go replacer names and values fills them

Returns a `list` of all matched paths

See also:

- Module `glob`
- Function `glob.iglob()`

re_pattern_string (`**replacers`)

Generates a `re` pattern string. It takes keyword arguments of replacers to fill also.

```
>>> import datetime
>>> pattern = FilenamePattern("/<server>/<channel>.<date:%Y%m%d>")
>>> pattern.re_pattern_string(date=datetime.date(2010, 8, 4))
'^\\/(?P<server>.+?)\\/(?P<channel>.+?)\\\.20100804$'
```

Parameters ****replacers** – replacers to fill. keywords go replacer names and values fills them

Returns a `re` pattern string

re_pattern (***replacers*)

Generates a `re` pattern object. It takes keyword arguments of replacers to fill also.

Parameters ****replacers** – replacers to fill. keywords go replacer names and values fills them

Returns a `re` pattern

Note: This method is the same to following code:

```
re.compile(file_pattern.re_pattern_string(**replacers))
```

class irclog.archive.**BaseArchive**

Bases: `object`

Abstract base class for `Archive`, `Server` and `Channel`.

ELEMENT_CLASS

Should be implemented in the subclass.

ELEMENT_TAG

Should be implemented in the subclass.

pattern_replacers

Should be implemented in the subclass.

decode_element_key (*element_key*)

Decodes an element key string to element key.

Parameters `element_key` (`basestring`) – an element key string

Returns an element key

encode_element_key (*element_key*)

Encodes an element key to element key string.

Parameters `element_key` – an element key

Returns an element key string

class irclog.archive.**Archive** (*pattern*)

Bases: `irclog.archive.BaseArchive`

Log archive.

Parameters `pattern` (`FilennamePattern`, `basestring`) – logs filename pattern e.g. `"/logs/<server>/<channel>.<date:%Y-%m-%d>.log"`

ELEMENT_CLASS

alias of `Server`

decode_element_key (*element_key*)

Decodes an element key string to element key.

Parameters **element_key** (basestring) – an element key string

Returns an element key

encode_element_key (*element_key*)

Encodes am element key to element key string.

Parameters **element_key** – an element key

Returns an element key string

class irclog.archive.Server (*archive, server*)

Bases: *irclog.archive.BaseArchive*

IRC server.

Parameters

- **archive** (*Archive*) – an archive
- **server** (basestring) – a server name

ELEMENT_CLASS

alias of *Channel*

decode_element_key (*element_key*)

Decodes an element key string to element key.

Parameters **element_key** (basestring) – an element key string

Returns an element key

encode_element_key (*element_key*)

Encodes am element key to element key string.

Parameters **element_key** – an element key

Returns an element key string

class irclog.archive.Channel (*server, channel*)

Bases: *irclog.archive.BaseArchive*

IRC channel or nick.

Parameters

- **server** (*Server*) – a server
- **channel** (basestring) – a channel name or a nick

ELEMENT_CLASS

alias of *Log*

decode_element_key (*element_key*)

Decodes an element key string to element key.

Parameters **element_key** (basestring) – an element key string

Returns an element key

encode_element_key (*element_key*)

Encodes am element key to element key string.

Parameters **element_key** – an element key

Returns an element key string

class irclog.archive.**Log** (*channel, date*)
Bases: `object`

IRC log.

Parameters

- **channel** (`Channel`) – a channel logged
- **date** (`datetime.date`) – a date logged

server

The server.

archive

The archive.

pattern

The filename pattern.

yesterday_log

The yesterday log of the same channel.

tomorrow_log

The tomorrow log of the same channel.

filename

The filename of the log. If not exists, it could be `None`.

file_size

The size of the log file in bytes.

is_logged()

Returns `True` if the channel of the day has logged.

Returns `True` or `False`

irclog.web — Web IRC log view

class irclog.web.**Application** (*archive, template_path, path_prefix=''*, *encoding='utf-8'*, *debug=False*)

Bases: `object`

WSGI application.

```
import os, os.path
path = os.path.join(
    os.environ["HOME"],
    ".irssi/logs/<server>/<channel>/<date:>%Y-%m-%d>.log"
)
app = Application(path)
```

Parameters

- **archive** (`Archive, FilenamePattern, basestring`) – an archive object or path
- **template_path** (`basestring`) – a path of template files
- **path_prefix** (`basestring`) – a prefix for the path. default is an empty string

- **encoding** (basestring) – an encoding of response text. default is "utf-8"
- **debug** (bool) – a debug flag. default is False

STATIC_PATH_PATTERN**PATH_MAP**

The `list`: of tuple contains template name, routing pattern and object getting function.

Form is like following:

```
[("template.html", re.compile("url regex"), lambda app, ...: ...)]
```

archive

The `Archive` object.

template_path

The path of template files.

template_environment

The Jinja2 template environment. A `jinja2.Environment` instance.

path_prefix

The prefix of the path.

encoding

The encoding of response text.

debug

The debug flag.

classmethod route (template_name, pattern_string)

Registers a function as request handler.

```
>>> __tmp__ = Application.PATH_MAP
>>> Application.PATH_MAP = []
>>> Application.PATH_MAP
[]
>>> @Application.route("myhandler.html", r"^(?P<a>.) / (?P<b>.) / ?$")
... def myhandler(app, a, b):
...     return {"a": a, "b": b}
...
>>> Application.PATH_MAP
[('myhandler.html', <sre.SRE_Pattern object at ...>,
 <function myhandler at ...>)]
>>> Application.PATH_MAP = __tmp__
```

Parameters

- **template_name** (basestring) – a template filename
- **pattern_string** (basestring) – a pattern of URL to route

classmethod redirect (pattern_string, status_code=307)

Registers a redirection handler.

```
>>> __tmp__ = Application.PATH_MAP
>>> Application.PATH_MAP = []
>>> Application.PATH_MAP
[]
>>> @Application.redirect(r"^(?P<a>.) / (?P<b>.) / ?$", 301)
```

```
... def redirect(app, a, b):
...     return "/url/{0}/{1}".format(a, b)
...
>>> Application.PATH_MAP
[(301, <_sre.SRE_Pattern object at ...>,
 <function redirect at ...>)]
>>> Application.PATH_MAP = __tmp__
```

Parameters `pattern_string` (`basestring`) – a pattern of URL to route

`class irclog.web.Environment (application, environment)`

Bases: `dict`

HTTP request environment. It contains WSGI environment values, and is a subtype of `dict`.

Parameters

- `application` (`Application`) – an application
- `environment` (`dict`) – a WSGI environment dictionary

`application`

The `Application` instance.

`app`

Alias of `application`.

`authorization`

The tuple that contains credential pair: user and password.

```
>>> assert isinstance(env, Environment)
>>> env['HTTP_AUTHORIZATION']
'Basic dXNlcjpwYXNz'
>>> env.authorization
('user', 'pass')
```

It is `None` when there's no '`HTTP_AUTHORIZATION`' key:

```
>>> assert isinstance(env2, Environment)
>>> 'HTTP_AUTHORIZATION' in env
False
>>> print env.auth
None
```

`irclog.web.setup_template_environment (environment)`

Sets up the Jinja2 environment.

Parameters `environment` (`jinja2.Environment`) – a Jinja2 environment

`irclog.web.quote_url (object)`

Quotes as URL.

```
>>> quote_url(1)
'1'
>>> quote_url("hello world")
'hello%20world'
```

Parameters `object` – an object to be quoted

Returns a quoted string

`irclog.web.url_for(object)`
 Makes an URL for the object.

Parameters `object` – an object to create URL

Returns an URL

irclog.web.server — Built-in web server

Command line interface

This module provides a command line interface for running the web server.

```
$ python -m irclog.web.server
Usage: python -m irclog.web.server [options] archive-path

python -m irclog.web.server: error: archive path is required
```

It takes exactly one argument, the path of log archive, and several options following explained:

- H <host>, --host <host>**
 Host to listen. Default: 0.0.0.0.
- p <port>, --port <port>**
 Port to bind. Default: 8080.
- T <path>, --template <path>**
 HTML template path. Default: basic.
- P <prefix>, --path-prefix <prefix>**
 Prefix of the URL path.
- E <key>=<value>, --wsgi-environ <key>=<value>**
 Set WSGI environment. It can be multiple e.g. -Ea=1 -Eb=2 or -Ea=b=c=123 (which is equivalent to -Ea=123 -Eb=123 -Ec=123).
- d, --debug**
 Debug mode.

Internals

`irclog.web.server.serve(host, port, app)`
 Serves a WSGI application.

Parameters

- `host` (basestring) – a host to listen
- `port` (int) – a port to listen

irclog.tests — Unit tests

`irclog.tests.MODULES`
 The modules to test.

`irclog.tests.suite()`
Adapts doctests to `unittest` interface.

Returns an adopted `unittest.TestSuite` object

irclog.version — Version info

`irclog.version.VERSION_INFO = (0, 2, 0)`
(tuple) The version numbers in tuple e.g. (1, 2, 3).

`irclog.version.VERSION = '0.2.0'`
(basestring) The version string e.g. '1.2.3'.

CHAPTER 3

About distribution

It is written by [Hong Minhee](#). See more other contributors from CONTRIBUTORS file of the source code.

You can check out recent version of the source code from its [Mercurial repository](#):

```
$ hg clone https://bitbucket.org/dahlia/irclog
```

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CHAPTER 4

Indices and tables

- genindex
- modindex
- search

Python Module Index

i

irclog, 4
irclog.archive, 11
irclog.messages, 5
irclog.parser, 10
irclog.tests, 19
irclog.version, 20
irclog.web, 16
irclog.web.server, 19

Symbols

-E <key>=<value>, -wsgi-environ <key>=<value>
 python-m-irclog.web.server command line option, 19
-H <host>, --host <host>
 python-m-irclog.web.server command line option, 19
-P <prefix>, --path-prefix <prefix>
 python-m-irclog.web.server command line option, 19
-T <path>, --template <path>
 python-m-irclog.web.server command line option, 19
-d, --debug
 python-m-irclog.web.server command line option, 19
-p <port>, --port <port>
 python-m-irclog.web.server command line option, 19

A

ActionMessage (class in irclog.messages), 6
actmsg() (in module irclog.parser), 11
app (irclog.web.Environment attribute), 18
Application (class in irclog.web), 16
application (irclog.web.Environment attribute), 18
Application.PATH_MAP (in module irclog.web), 17
Application.STATIC_PATH_PATTERN (in module irclog.web), 17
Archive (class in irclog.archive), 14
archive (irclog.archive.Log attribute), 16
archive (irclog.web.Application attribute), 17
authorization (irclog.web.Environment attribute), 18

B

BaseArchive (class in irclog.archive), 14
BaseArchive.ELEMENT_CLASS (in module irclog.archive), 14
BaseArchive.ELEMNENT_TAG (in module irclog.archive), 14

BaseMessage (class in irclog.messages), 6
BaseNickMessage (class in irclog.messages), 7
BaseTopicMessage (class in irclog.messages), 9
by (irclog.messages.KickMessage attribute), 9

C

Channel (class in irclog.archive), 15
channel (irclog.messages.BaseTopicMessage attribute), 9
channel (irclog.messages.JoinMessage attribute), 7
channel (irclog.messages.KickMessage attribute), 9
channel (irclog.messages.ModeMessage attribute), 8
channel (irclog.messages_NOTICE_MESSAGE attribute), 7
channel (irclog.messages.PartMessage attribute), 8

D

debug (irclog.web.Application attribute), 17
decode_element_key() (irclog.archive.Archive method), 14
decode_element_key() (irclog.archive.BaseArchive method), 14
decode_element_key() (irclog.archive.Channel method), 15
decode_element_key() (irclog.archive.Server method), 15

E

ELEMENT_CLASS (irclog.archive.Archive attribute), 14
ELEMENT_CLASS (irclog.archive.Channel attribute), 15
ELEMENT_CLASS (irclog.archive.Server attribute), 15
encode_element_key() (irclog.archive.Archive method), 15
encode_element_key() (irclog.archive.BaseArchive method), 14
encode_element_key() (irclog.archive.Channel method), 15
encode_element_key() (irclog.archive.Server method), 15
encoding (irclog.web.Application attribute), 17
Environment (class in irclog.web), 18

F

file_size (irclog.archive.Log attribute), 16
filename (irclog.archive.Log attribute), 16
FilenamePattern (class in irclog.archive), 11
FilenamePattern.REPLACER_PATTERN (in module irclog.archive), 11
fill_replacers() (irclog.archive.FilenamePattern method), 12
from_ (irclog.messages.NickMessage attribute), 7

G

glob() (irclog.archive.FilenamePattern method), 13
glob_pattern_string() (irclog.archive.FilenamePattern method), 13

I

ident (irclog.messages.JoinMessage attribute), 7
ident (irclog.messages.PartMessage attribute), 8
ident (irclog.messages.QuitMessage attribute), 9
iglob() (irclog.archive.FilenamePattern method), 13
irclog (module), 4
irclog.archive (module), 11
irclog.messages (module), 5
irclog.parser (module), 10
irclog.tests (module), 19
irclog.version (module), 20
irclog.web (module), 16
irclog.web.server (module), 19
is_logged() (irclog.archive.Log method), 16

J

JoinMessage (class in irclog.messages), 7
joinmsg() (in module irclog.parser), 10

K

KickMessage (class in irclog.messages), 9
kickmsg() (in module irclog.parser), 11

L

line (irclog.messages.Message attribute), 6
Log (class in irclog.archive), 16

M

Message (class in irclog.messages), 6
messaged_at (irclog.messages.BaseMessage attribute), 6
modelist (irclog.messages.ModeMessage attribute), 8
ModeMessage (class in irclog.messages), 8
modemsg() (in module irclog.parser), 11
MODULES (in module irclog.tests), 19

N

nick (irclog.messages.BaseTopicMessage attribute), 9
nick (irclog.messages.JoinMessage attribute), 7

nick (irclog.messages.KickMessage attribute), 9
nick (irclog.messages.Message attribute), 6
nick (irclog.messages.ModeMessage attribute), 8
nick (irclog.messages.PartMessage attribute), 8
nick (irclog.messages.QuitMessage attribute), 9
NickMessage (class in irclog.messages), 7
nickmsg() (in module irclog.parser), 10
NoticeMessage (class in irclog.messages), 6
noticemsg() (in module irclog.parser), 11
NoTopicMessage (class in irclog.messages), 10
notopicmsg() (in module irclog.parser), 11

P

parse() (in module irclog.parser), 10
parser() (in module irclog.parser), 10
PartMessage (class in irclog.messages), 8
partmsg() (in module irclog.parser), 11
path_prefix (irclog.web.Application attribute), 17
PATTERN (in module irclog.parser), 10
pattern (irclog.archive.Log attribute), 16
pattern_replacers (irclog.archive.BaseArchive attribute), 14
PublicMessage (class in irclog.messages), 6
pubmsg() (in module irclog.parser), 11
python-m-irclog.web.server command line option
-E <key>=<value>, -wsgi-environ <key>=<value>, 19
-H <host>, --host <host>, 19
-P <prefix>, --path-prefix <prefix>, 19
-T <path>, --template <path>, 19
-d, --debug, 19
-p <port>, --port <port>, 19

Q

QuitMessage (class in irclog.messages), 8
quitmsg() (in module irclog.parser), 11
quote_url() (in module irclog.web), 18

R

re_pattern() (irclog.archive.FilenamePattern method), 14
re_pattern_string() (irclog.archive.FilenamePattern method), 13
reason (irclog.messages.KickMessage attribute), 9
reason (irclog.messages.PartMessage attribute), 8
reason (irclog.messages.QuitMessage attribute), 9
redirect() (irclog.web.Application class method), 17
replacer_dict (irclog.archive.FilenamePattern attribute), 12
replacer_pairs (irclog.archive.FilenamePattern attribute), 12
replacers (irclog.archive.FilenamePattern attribute), 12
route() (irclog.web.Application class method), 17

S

SelfNickMessage (class in irclog.messages), 7
selfnickmsg() (in module irclog.parser), 10
serve() (in module irclog.web.server), 19
Server (class in irclog.archive), 15
server (irclog.archive.Log attribute), 16
server (irclog.messages.ModeMessage attribute), 8
setup_template_environment() (in module irclog.web), 18
STRPTIME_DIRECTIVE_PATTERN (in module irclog.archive), 11
STRPTIME_TO_GLOB (in module irclog.archive), 11
suite() (in module irclog.tests), 19

T

template_environment (irclog.web.Application attribute), 17
template_path (irclog.web.Application attribute), 17
to (irclog.messages.BaseNickMessage attribute), 7
tomorrow_log (irclog.archive.Log attribute), 16
topic (irclog.messages.TopicMessage attribute), 10
TopicMessage (class in irclog.messages), 9
topicmsg() (in module irclog.parser), 11

U

url_for() (in module irclog.web), 19

V

VERSION (in module irclog.version), 20
VERSION_INFO (in module irclog.version), 20

Y

yesterday_log (irclog.archive.Log attribute), 16