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Summary

The *QIRC* class provides a multi-threaded Internet relay chat (IRC) client for use with PyQt programs.

To use *QIRC*, understanding IRC and the IRC protocol is a necessity. *QIRC* is designed to be low level, meaning its interface is influenced by the protocol itself; *QIRC* can be hard to understand if you don't understand the underlying protocol.

The IRC protocol is defined in a series of RFC documents:

- RFC 1459
- RFC 2812

Methods

	QIRC(**kwargs) Any of the keywords available with the configure() method can be used here.						
None	configure(**kwargs) Configures the IRC client.						
	Keyword	Type	Default	Description			
	server	String		The server the IRC client will connect to.			
	port	Integer	6667	The port the IRC client will connect to.			
	password	String	None	The password needed to connect to the IRC server (if required).			
	encoding	String	"utf-8"	What string encoding to use with the server.			
	ssl	Boolea n	False	Set to <i>True</i> to use SSL/TLS to connect to the IRC server.			
	verify_hostname	Boolea n	False	Set to <i>True</i> to verify the IRC server's host name (requires ssl to be set to <i>True</i>).			
	verify_certificate	Boolea n	False	Set to <i>True</i> to verify the IRC server's certificate (requires ssl to be set to <i>True</i>).			
	nickname	String	"qircclient"	The nickname the IRC client will use.			
	alternate	String	"qirc_client"	The nickname the IRC client will try to use if the first choice is already taken.			
	username	String	"qircclient"	The username the IRC client will use.			
	realname	String	"qircclient"	The "real name" the IRC client will use.			
	flood_protection	Boolea n	True	Set to <i>False</i> to turn off flood protection.			
	flood_protection_send_rate	Float	1.5	If flood_protection is set to <i>True</i> , messages will be sent to the server at a rate of one message every X seconds, with X equal to the value set here.			

None	start() Connects the IRC client to the IRC server.			
None	stop() Disconnects the IRC client from the IRC server and terminates the client's thread.			
None	privmsg(String <i>target</i> , String <i>message</i>) Sends a PRIVMSG to the currently connected IRC server.			
None	join(String <i>channel</i> , String <i>key</i> =None) Sends a JOIN command to the currently connected IRC server.			
None	part(String <i>channel</i> , String <i>message</i> =None) Sends a PART command to the currently connected IRC server.			
None	quit(String <i>message</i> =None) Sends a QUIT command to the currently connected IRC server, disconnects from the IRC server, and kills the thread that the QIRC instance is using.			
None	send(String <i>message</i>) Sends a raw message to the currently connected IRC server. This method allows users of this class to send commands that are not otherwise supported. The data is sent to the server unchanged, other than being properly encoded and delimited (as documented in RFC 1459).			

Signals

None connected(Dictionary data) Emitted when the IRC client connects to the IRC server. The data dictionary contains three keys: client - The QIRC instance that emitted the signal server - String: The IP or host name of the server connected to port - Integer: The port on the server connected to None registered(Dictionary data) Emitted when the IRC client successfully registers with the IRC server. The data dictionary contains three keys: client - The QIRC instance that emitted the signal server - String: The IP or host name of the server connected to port - Integer: The port on the server connected to None nick collision(Dictionary data) Emitted when the nickname the IRC client tries to register with is already taken. The IRC client will try nicknames until it finds one that is not taken (these can be set with the configure() function). The data dictionary contains three keys: client - The QIRC instance that emitted the signal old - The invalid nickname new - The new nickname None message(Dictionary data) Emitted when the IRC client receives a PRIVMSG from the server. The data dictionary contains five keys: client - The QIRC instance that emitted the signal nickname - The nickname of the message sender host - The username and host of the message sender target - The channel or user the message was sent to message - The message None public(Dictionary data) Emitted when the IRC client receives a PRIVMSG sent to a channel the client is in. The data dictionary contains five keys: client - The QIRC instance that emitted the signal nickname - The nickname of the message sender host - The username and host of the message sender target - The channel message was sent to message - The message None private(Dictionary data) Emitted when the IRC client receives a PRIVMSG sent directly to the client. The data dictionary contains five keys: client - The QIRC instance that emitted the signal nickname - The nickname of the message sender host - The username and host of the message sender target - The IRC client's nickname message - The message

None action(Dictionary data) Emitted when the IRC client receives a CTCP action PRIVMSG. The data dictionary contains five kevs: client - The QIRC instance that emitted the signal nickname - The nickname of the message sender host - The username and host of the message sender target - The channel or user the message was sent to message - The message None ping() Emitted when the IRC client receives a PING from the server. The IRC client automatically responds to the server; this just is a notification that a PING has been received. None tick(Integer *uptime*) Emitted once a second while the IRC client is connected to the server. The uptime integer contains the length of time the IRC client has been connected, in seconds. None user part(Dictionary data) Emitted when the IRC client receives a PART message from the server. The data dictionary contains five keys: client - The QIRC instance that emitted the signal nickname - The nickname of the user leaving the channel host - The username and host of the user channel - The channel the user is leaving reason - The reason the user left (or an empty string) None user join(Dictionary data) Emitted when the IRC client receives a JOIN message from the server. The data dictionary contains four keys: client - The QIRC instance that emitted the signal nickname - The nickname of the user joining the channel host - The username and host of the user channel - The channel the user is joining

None user quit(Dictionary data)

Emitted when the IRC client receives a QUIT message from the server. The data dictionary contains four keys:

- client The QIRC instance that emitted the signal
- nickname The nickname of the user quitting IRC
- host The username and host of the user
- reason The reason the user quit (or an empty string)

None nick change(Dictionary data)

Emitted when the IRC client receives a NICK message from the server. The data dictionary contains four keys:

- client The QIRC instance that emitted the signal
- nickname The old nickname of the user changing their nickname
- host The username and host of the user
- new The user's new nickname

None

user_list (Dictionary users)

Emitted when the IRC client receives a NAMES message from the server. The users dictionary contains five keys:

- client The QIRC instance that emitted the signal
- channel The name of the channel the user list belongs to
- users A Python list containing all users in the channel. Each entry in the list can either contain a nickname with status prefixes, or a user's nickname (with status prefixes), username, and host in nickname! username@host format.

Attributes

String	server	The server the IRC client is connected to.
Integer	port	The port the IRC client is connected to.
String	password	The password used to connect to the IRC server.
String	nickname	The nickname the IRC client is currently using.
String	alternate	The alternate nickname the IRC client was set to use.
String	username	The username the IRC client is using.
String	realname	The "real name" the IRC client is using.
String	encoding	What string encoding the IRC client is using.
Boolean	ssl	True if the IRC client is connected to the server via SSL/TLS, and False if otherwise.
Integer uptime		How long the IRC client has been connected to the server, in seconds.
socket object	socket	The socket object the IRC client is using for connectivity.