



# User Manual

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License  
Source Code  
Last modified

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[GPL 3 \(explained\)](https://github.com/nutjob-laboratories/merk)  
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Summary.....	2
Running MERK.....	3
PyInstaller Version.....	3
Python Version.....	3
Command-Line Arguments and Options.....	4
Using Command-Line Options.....	5
Directories and Configuration Files.....	6
New User Help.....	7
Regular and Dark Mode.....	8
Channel Windows.....	9
Private Chat Windows.....	10
Server Windows.....	11
Script Editor.....	12
Text Styles.....	13
How Text Styles Are Applied.....	14
Log Manager.....	15
Commands and Scripting Guide.....	17
Special Commands.....	17
Command List.....	20
All Commands.....	20
Script-Only Commands.....	23
Non-Script Commands.....	24
Context-less Commands.....	25
Scripting MERK.....	26
Connection Scripts.....	26
All Other Scripts.....	26
Errors.....	27
Aliases.....	28
Built-In Aliases.....	29
Context.....	30
Script Arguments.....	32
Writing Connection Scripts.....	34
Example Scripts.....	36
Wave.....	36
Greeting.....	36
Example Connection Script.....	37
Inserting Files.....	38
Advanced Settings.....	39
Resetting MERK to Default Settings.....	39
Options.....	39

# Summary

**IRC (Internet Relay Chat)** is a text-based chat system for [instant messaging](#). IRC is designed for [group communication](#) in discussion forums, called [channels](#), but also allows one-on-one communication via [private messages](#)...

Internet Relay Chat is implemented as an [application layer](#) protocol to facilitate communication in the form of text. The chat process works on a [client-server networking model](#). Users connect, using a client—which may be a [web app](#), a [standalone desktop program](#), or embedded into part of a larger program—to an IRC server, which may be part of a larger IRC network. Examples of ways used to connect include the programs [Mibbit](#), [KiwIRC](#), [mIRC](#) and the paid service [IRCCloud](#).

*From the Wikipedia entry on IRC, at <https://en.wikipedia.org/wiki/IRC>*

MERK is a free and open source Internet Relay Chat client for Windows and Linux. It uses a "multiple document interface", in which the application works as a parent window that contains other windows for servers, channels, and private chats. The popular Windows shareware client mIRC is an example of another IRC client that uses a multiple document interface.

MERK is written in the Python programming language, using the PyQt library for the graphical interface and the Twisted library for networking. MERK also comes bundled with three other open source libraries:

- **qt5reactor**, for getting PyQt and Twisted to work together
- **pyspellchecker**, which provides the spellchecking mechanism
- **emoji**, providing support for emoji shortcodes

MERK has a scripting engine allowing most functionality to be automated. The core concept of the scripting engine is the **context**: a context is a window type, either a [channel](#), [private chat](#), or [server](#) window, that the [commands](#) executed are intended to interact with. Scripts can be [executed on connection](#), or [executed from text input](#). MERK comes with a [script editor](#) with features to make writing scripts easy and fun, with no prior programming experience required.

As IRC is a text-based protocol, MERK features a rich text display, which can be [easily configured](#). MERK supports the display of mIRC colors<sup>1</sup>, which can optionally be stripped from messages.

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<sup>1</sup> <https://en.wikichip.org/wiki/irc/colors>

# Running MERK

MERK comes in two different versions: the Python version, which uses the Python interpreter to run MERK, and a PyInstaller version of MERK, which runs on Windows, and doesn't require the Python interpreter. Both versions behave exactly the same way, and have only minor differences.

## PyInstaller Version

Download the Windows version of MERK, and unzip the archive to anywhere you'd like. The archive contains a folder named **lib**, the **merk.exe** executable, and **README.html**. Just double click **merk.exe**, to run MERK. That's it!

## Python Version

MERK requires several libraries to be installed in order to run: **Python 3.9+**, **PyQt**, **Twisted**, and if you'd like to connect to servers via SSL/TLS, **PyOpenSSL** and **service\_identity**. If you're running MERK on Windows, you may also need **pywin32**. All of these libraries can be installed easily with [PIP](#), the Python package installer. To install the base requirements, open a terminal, and enter:

```
pip install PyQt
pip install Twisted
pip install PyOpenSSL
pip install service_identity
```

If you're using MERK on Windows, also enter:

```
pip install pywin32
```

Once all the requirements are installed, unzip the downloaded archive of MERK, use the terminal to navigate to the directory you unzipped MERK to, and type:

```
python merk.py
```

# Command-Line Arguments and Options

The command-line interface of MERK works identically on all platforms.

```
usage: python merk.py [--ssl] [-p PASSWORD] [-c CHANNEL[:KEY]] [-C SERVER:PORT[:PASSWORD]]
                    [-S SERVER:PORT[:PASSWORD]] [-n NICKNAME] [-u USERNAME] [-a NICKNAME]
                    [-r REALNAME] [-h] [-d] [-x] [-t] [-R] [-o] [-s FILE]
                    [--config-name NAME] [--config-directory DIRECTORY] [--config-local]
                    [--scripts-directory DIRECTORY] [--user-file FILE]
                    [--config-file FILE] [--reset] [--reset-user]
                    [--reset-all] [-Q NAME] [-D] [-L]
                    [SERVER] [PORT]
```

## Connection:

SERVER	Server to connect to
PORT	Server port to connect to (6667)
--ssl, --tls	Use SSL/TLS to connect to IRC
-p, --password PASSWORD	Use server password to connect
-c, --channel CHANNEL[:KEY]	Join channel on connection
-C, --connect SERVER:PORT[:PASSWORD]	Connect to server via TCP/IP
-S, --connectssl SERVER:PORT[:PASSWORD]	Connect to server via SSL/TLS

## User Information:

-n, --nickname NICKNAME	Use this nickname to connect
-u, --username USERNAME	Use this username to connect
-a, --alternate NICKNAME	Use this alternate nickname to connect
-r, --realname REALNAME	Use this realname to connect

## Options:

-h, --help	Show help and usage information
-d, --dontsave	Do not save new user settings
-x, --donotexecute	Do not execute connection script
-t, --reconnect	Reconnect to servers on disconnection
-R, --run	Don't ask for connection information on start
-o, --on-top	Application window always on top
-s, --script FILE	Use a file as a connection script

## Files and Directories:

--config-name NAME	Name of the configuration file directory (default: .merk)
--config-directory DIRECTORY	Location to store configuration files
--config-local	Store configuration files in install directory
--scripts-directory DIRECTORY	Location to look for script files
--user-file FILE	File to use for user data
--config-file FILE	File to use for configuration data
--reset	Reset configuration file to default values
--reset-user	Reset user file to default values
--reset-all	Reset all configuration files to default values

## Appearance:

-Q, --qtstyle NAME	Set Qt widget style (default: Windows)
-D, --dark	Run in dark mode
-L, --light	Run in light mode

## Using Command-Line Options

MERK's command-line options allow users to do many things on startup. All of these uses are completely optional, and never have to be used. Most command-line options feature a long version (for example **--donotexecute**) and a shorter version (**-x**, which does the same thing).

If user settings are in place (that is, the default nickname, username, etc), command-line options can be used to connect to one or more IRC servers automatically on startup. For example, to automatically connect to the DALnet IRC network, you can use:

```
merk.exe us.dal.net 6687
```

This will automatically connect to DALnet, executing any connection script previously set up with MERK. To prevent the connection script from executing, try:

```
merk.exe --donotexecute us.dal.net 6667
```

Multiple servers can be connected to, as well, though the method is a little different. Use the **-C** option to connect to normal IRC servers, and the **-S** option to connect to IRC servers via SSL/TLS. In the next example, we're going to connect to the Libera network via SSL/TLS, and DALnet:

```
merk.exe -S irc.libera.chat:6697 -C us.dal.net:6667
```

If you want MERK to skip asking for a server to connect to on startup, use the **--run** option:

```
merk.exe --run
```

MERK can even be configured to run on a USB thumb drive! For this example, assume that MERK has been extracted into the root directory of a USB thumb drive. In the same directory as **merk.exe**, create a text file, and type this into it:

```
merk.exe --config-local
```

Save this file as **merk.bat**. Now, to run MERK off of the thumb drive, double click on **merk.bat** (which is a Windows batch file<sup>2</sup>). This will run MERK normally, but store all of the configuration files in a folder named **.merk** in the drive where you're running MERK from. MERK is now completely portable!

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2 [https://en.wikipedia.org/wiki/Batch\\_file](https://en.wikipedia.org/wiki/Batch_file)

# Directories and Configuration Files

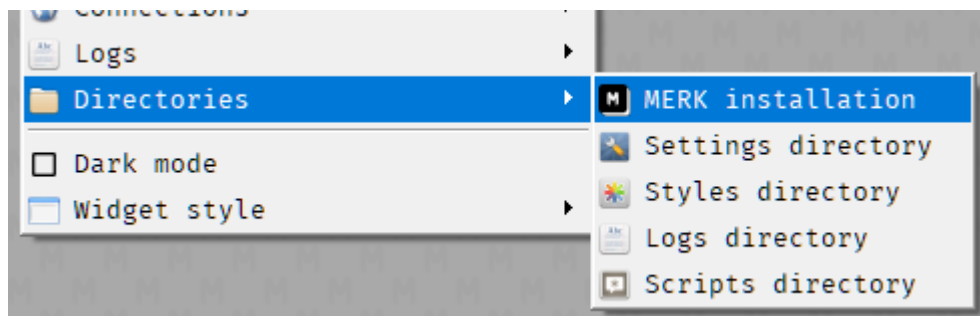
MERK stores all its settings in a directory it creates in the user's home directory, named **.merk**. Inside this directory, MERK creates:

- **logs**. This directory is where MERK stores channel and private chat logs.
- **styles**. This directory is where MERK stores text style files, and the palette used for dark mode.
- **scripts**. This directory is where MERK stores, and first looks for, scripts. This is the default directory chosen when running a script via the server window toolbar, input menu, or right click menus, or when saving a script in the editor.
- **settings.json**. This file is where MERK stores and loads application settings.
- **user.json**. This file is where MERK stores user information, such as the chosen nickname, username, and the like, as well as the application's connection history and any connection scripts.

When using the **/script** command, if a full filename is not provided, MERK will look for the script in several locations, in order:

1. The **scripts** directory.
2. The settings directory (by default, **.merk** in the user's home directory).
3. The application's installation directory.

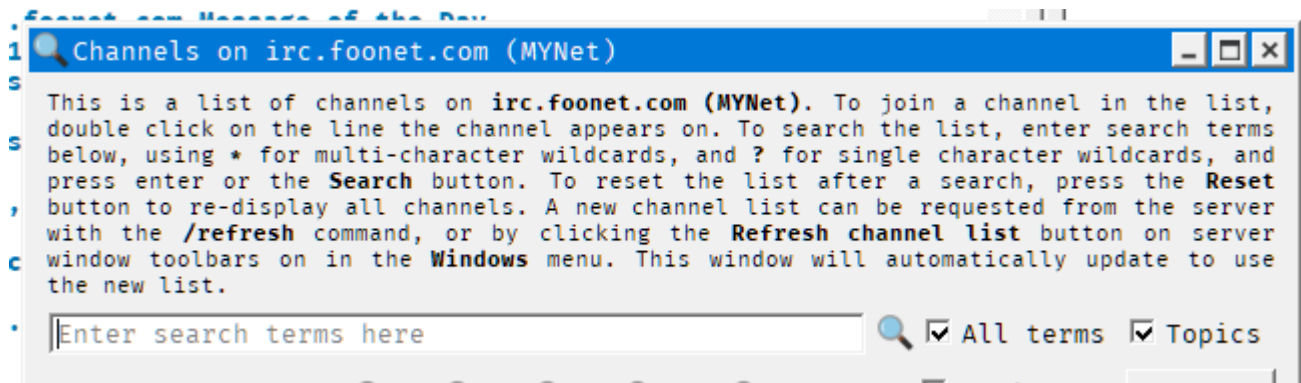
First, MERK will attempt to find the script using the provided filename, and if the script is still not found, it will append the default file extension (which is **.merk**) to the filename and search again. This same pattern is used with the **/edit** and **/insert** commands.



*These folders can be opened in your default file manager from the client by clicking on the appropriate entry in the "Directories" sub-menu, near the bottom of the "Settings" menu.*

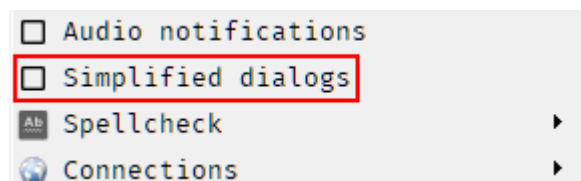
# New User Help

Most dialogs feature text explaining how the dialog or the settings in it work.

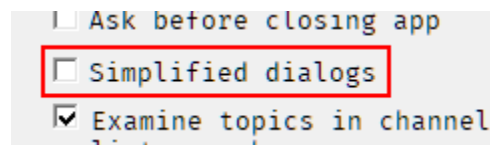


*The explanation text from the channel list dialog.*

While new users of MERK may find these helpful, experienced users may not want to see them. To hide the help text on dialogs, turn on "Simplified dialogs" in the settings menu or the settings dialog:



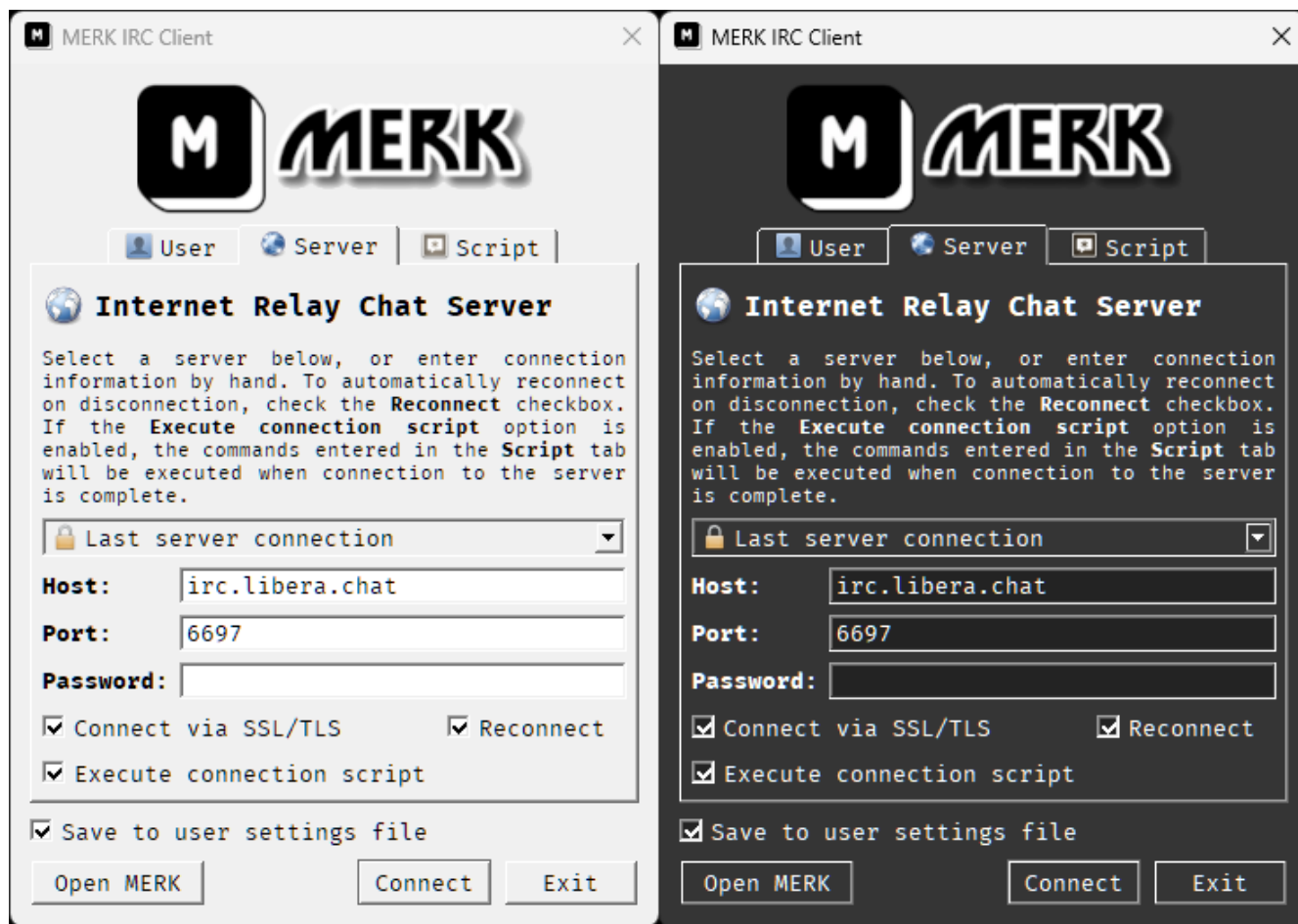
*The "Simplified dialogs" option in the "Settings" menu. Click this entry to simplified dialogs on and hide the help text.*



*The "Simplified dialogs" option on the first page of the "Settings" dialog.*

"Simplified dialogs" is turned off by default, showing the help text on dialogs every time a dialog is opened.

## Regular and Dark Mode



*Normal Mode*

*Dark Mode*

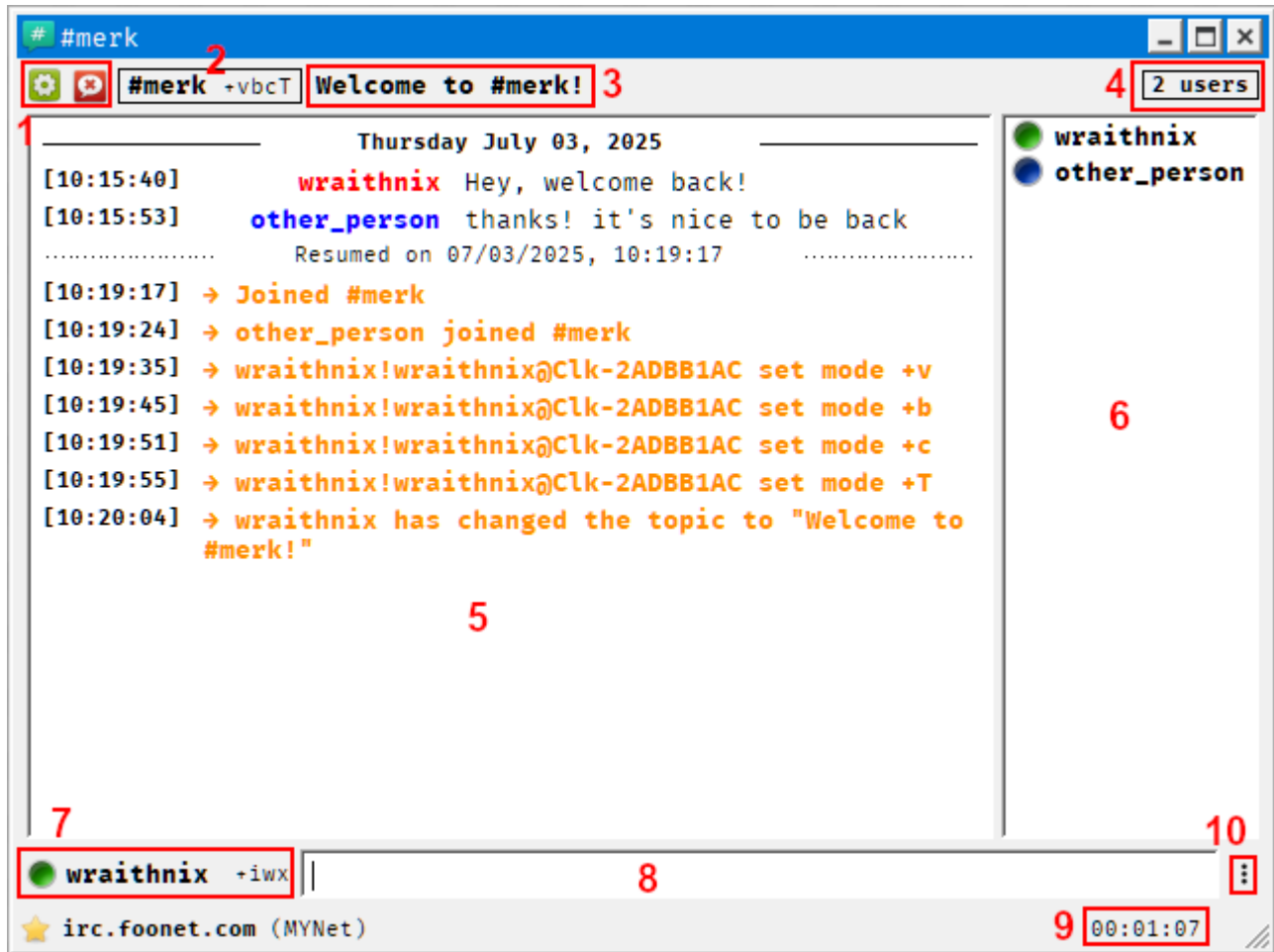
MERK can be operated in "normal" mode, seen above to the left, or in "dark" mode, on the right. To switch to "dark" mode, select it in the "Settings" menu or in the "Settings" dialog. MERK will have to be restarted for it to take effect, and you'll be prompted to restart MERK automatically.

For more advanced users, if you want to edit the palette that "dark" mode uses, all of the colors used by the application are stored in a file in the **styles** directory named **dark.palette**. The file format is specific to MERK, but you can edit it with a text editor. All colors are stored in the hexadecimal format used by HTML. To re-create the file and reset the "dark" mode values back to the default, delete **dark.palette** and restart MERK; the application will regenerate the file with default values.



# Channel Windows

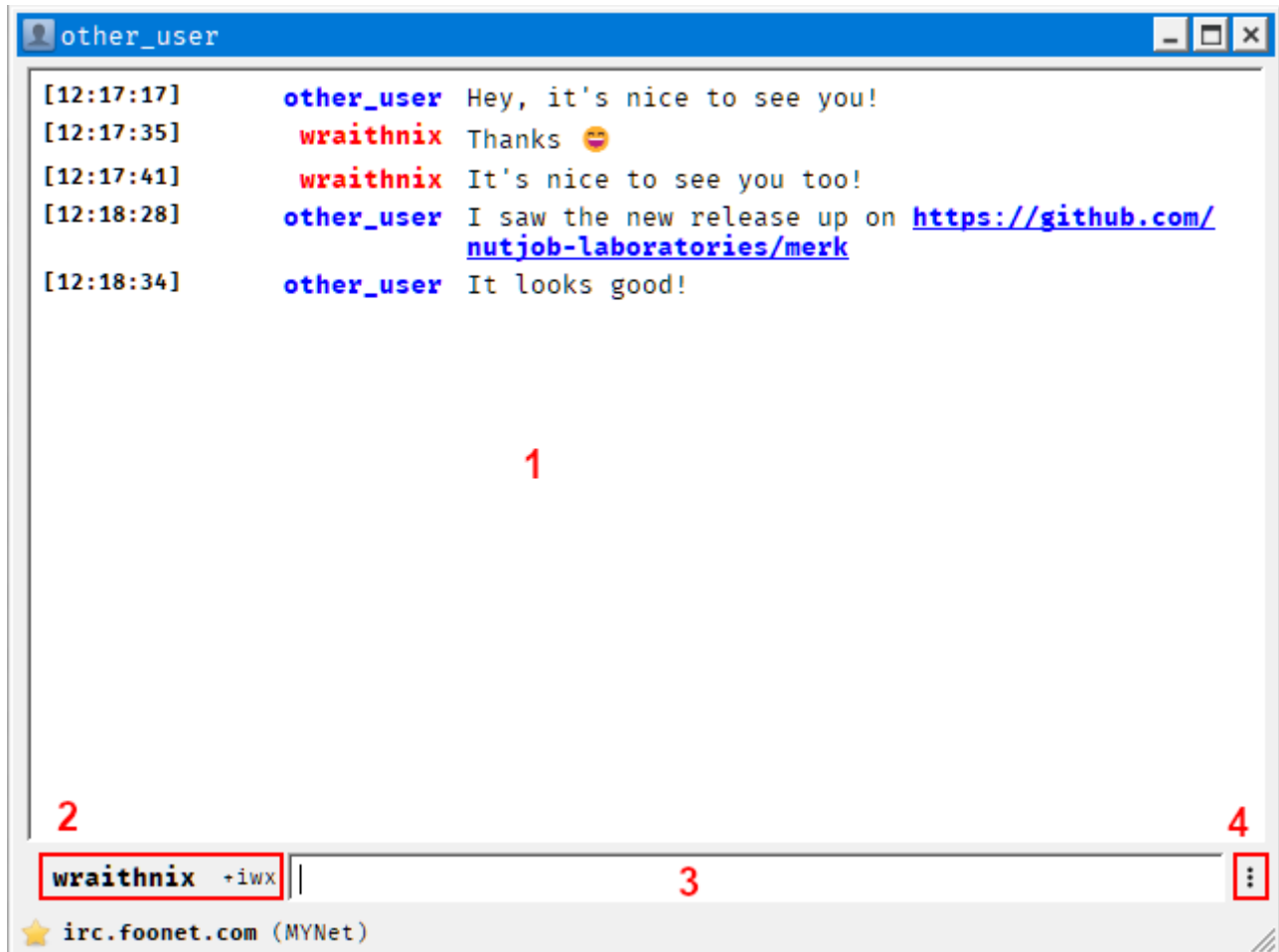
Closing a channel window leaves the channel.



1. **Mode Editor and Banlist.** The mode editor button displays a menu that allows the user to set or remove popular channel modes, if their status allows it; if they are not a privileged enough user, the button is hidden. The banlist displays a list of users that have been banned from the channel; if the banlist is empty, the button is hidden.
2. **Name and mode display.** Here, the channel name and any channel modes are displayed.
3. **Topic.** The channels topic is displayed here. Click on the topic to edit it, and press enter to send any changes to the server.
4. **User count.** How many users are currently in the channel
5. **Chat display.** Channel chat, as well as system messages, are displayed here.
6. **User list.** A list of users in the channel is displayed here. Privileged users have special icons next to their name (green for channel operators, blue for voiced users, etc.), and normal users do not. Nicknames are displayed in bold if the users are present, and in normal weight if they are away. Double click a user's name to open a private chat window.
7. **Nickname.** This displays the currently used nickname, and any user modes set.
8. **Text input widget.** Type your chat or commands here, and press "enter" to send them to the server or client.
9. **Uptime.** This displays how long the client has been connected to the channel.
10. **Input menu.** Clicking on this brings up a menu that allows you to do various tasks, like changing the spellchecker's language.

# Private Chat Windows

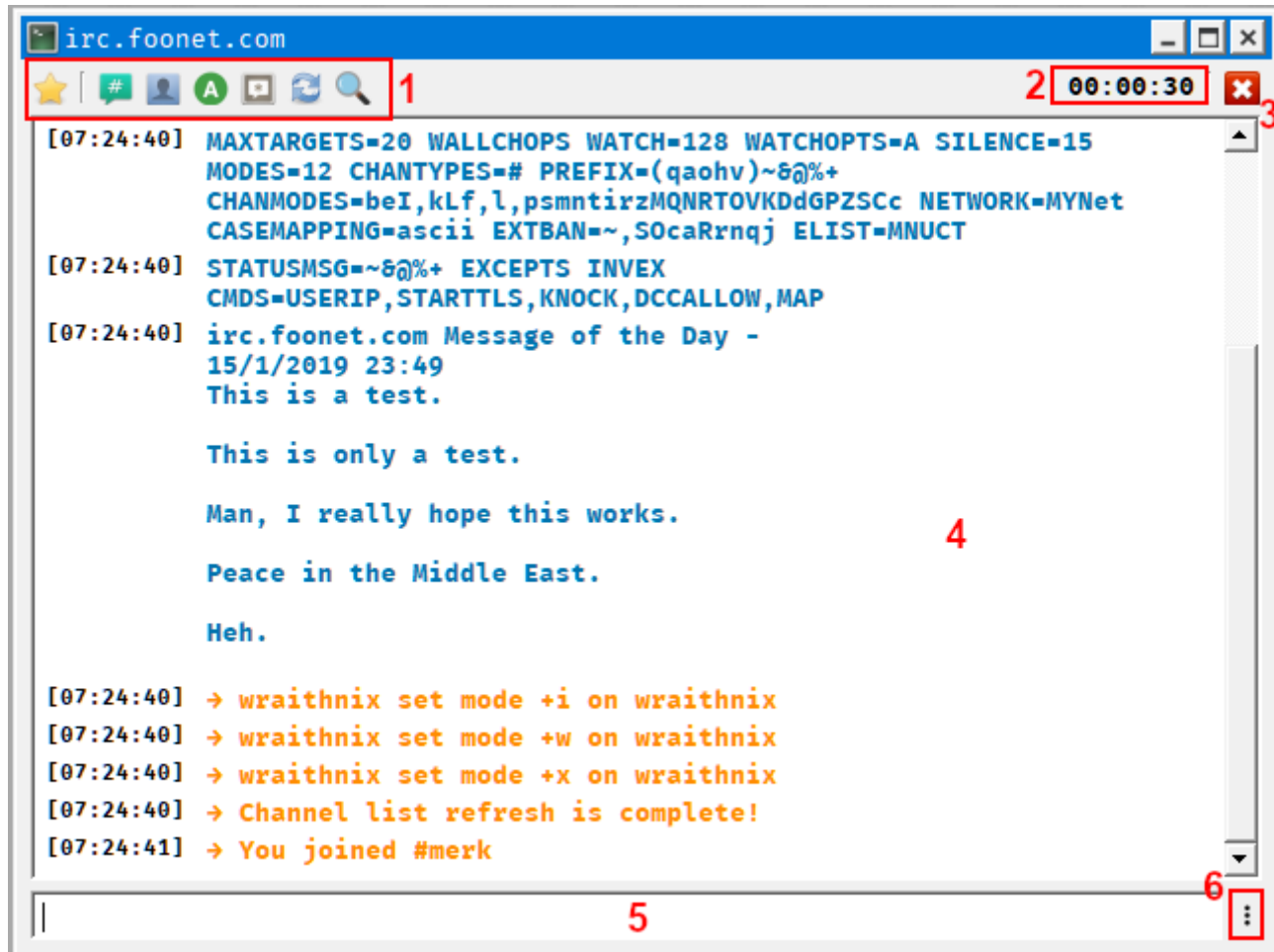
Closing a private chat window does not leave the chat, or block the sender; it only closes the window.



1. **Chat display.** Private chat is displayed here, as well as system messages.
2. **Nickname.** This displays the currently used nickname, and any user modes set.
3. **Text input widget.** Type your chat or commands here, and press "enter" to send them to the server or the client.
4. **Input menu.** Clicking on this brings up a menu that allows you to do various tasks, like changing the spellchecker's language.

# Server Windows

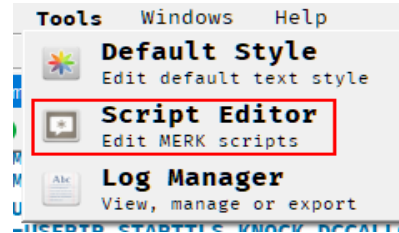
Server windows behave differently from channels or private chat windows: closing a server window does not disconnect from the server, it only hides the window. To view a hidden server window, click on its entry in the "Windows" menu or the system tray menu.



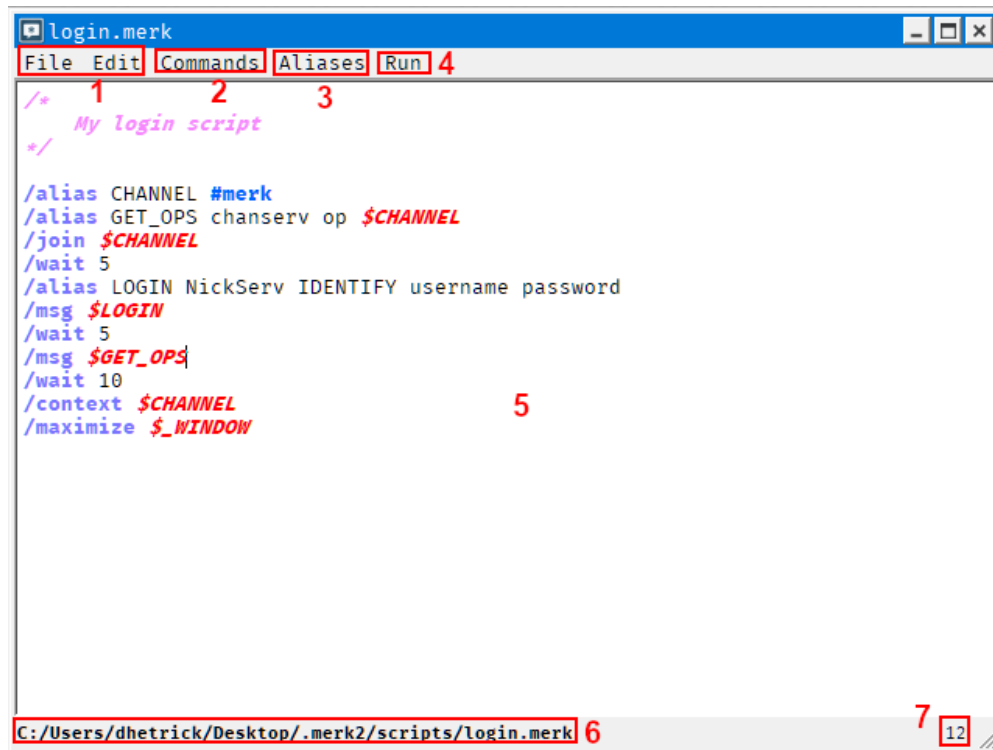
1. **Toolbar.** Buttons that perform basic actions; some on the IRC server, such as joining a channel, changing your nickname, and setting your away status, and others on the client, like selecting a script to run, refreshing the channel list from the server, and opening the channel list dialog.
2. **Connection uptime.** This displays how long MERK has been connected to the server.
3. **Disconnect.** Pressing this button issues a **QUIT** command and quickly disconnects from the IRC server.
4. **Display.** Displays any messages from the server, as well as notices, outgoing private messages, and the like.
5. **Text input widget.** Type commands in here, and press "enter" to execute them.
6. **Input menu.** Clicking on this brings up a menu that allows you to do various tasks, like changing the spellchecker's language. This button is present on channel or private message windows, too.

# Script Editor

To launch the script editor, use the /edit command, or select **Script Editor** from the "Tools" menu:



The script editor is a basic text editor with a few special features:

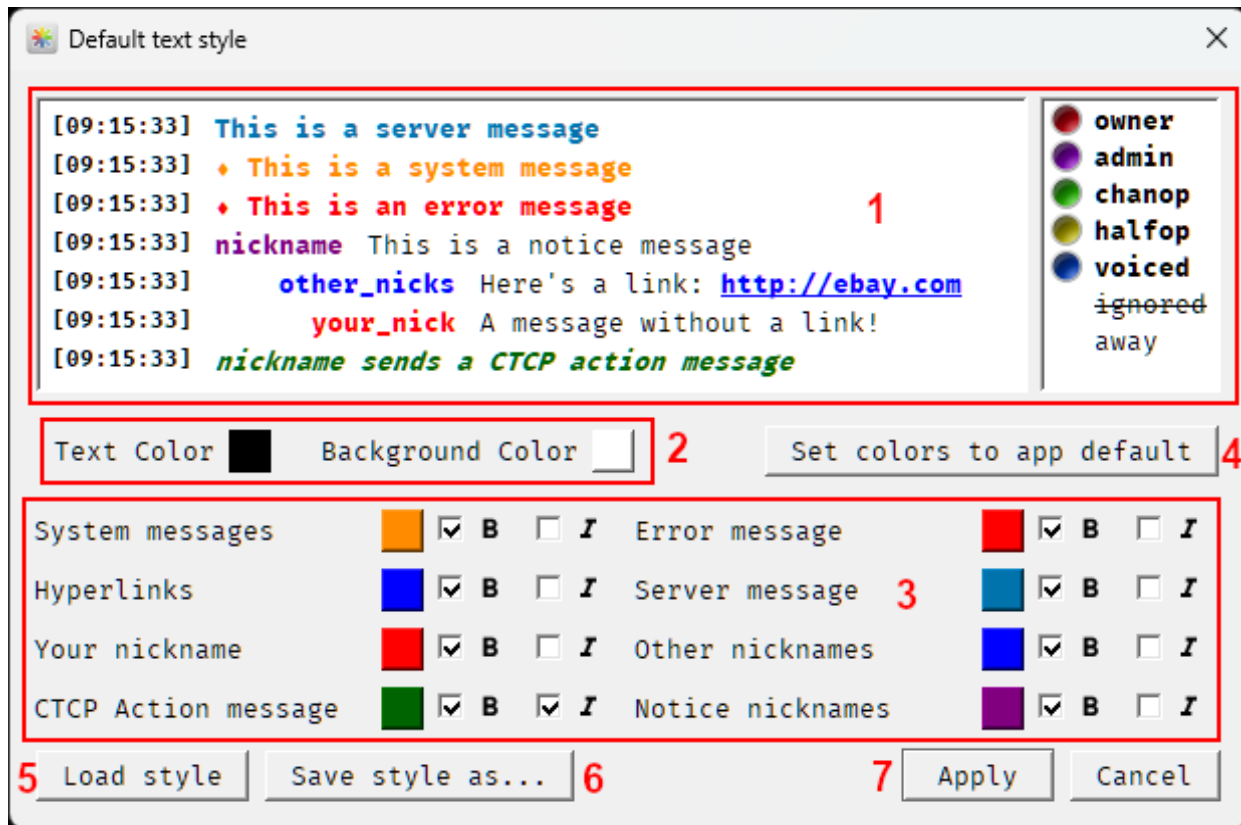


*An example script open in the script editor.*

1. **File and Edit Menus.** All the normal selections of a text editor, like opening and saving files, cut and paste, find and replace, etc. Connection scripts can also be opened for editing, as well as created.
2. **Commands.** Each entry in this menu allows the user to insert a command into the open script. Click the desired command, fill out the entries in the dialog that pops up, if needed, and the command is inserted into the script.
3. **Aliases.** Insert built-in aliases into the script.
4. **Run.** Run the currently open script in any context/window available. The user also can run the script in all contexts/windows simultaneously. Scripts are executed with no arguments and no filename.
5. **Script display.** Features syntax highlighting. Colors used for the display can be set in the settings dialog.
6. **Filename.** The currently open script's filename is displayed here.
7. **Line number.** The line number the cursor is currently on.

# Text Styles

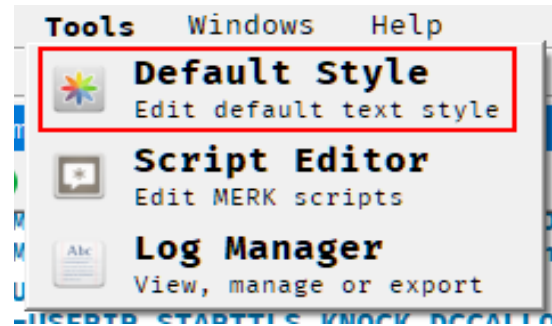
MERK has a text style engine that colors and styles all chat text, and can be edited by users with the style editor.



1. **Display.** This is what the text style will look like in the client. Any changes in color or style will be displayed here instantly. If editing the default text style, or the text style of a channel, an example user list is shown as how it will appear in the client. The example user list is not shown when editing the text style of server windows or private chats.
2. **Background and foreground color.** Set the color of the text and the background color here.
3. **Message styles.** Change the color and style of individual message types here.
4. **Set colors to app default.** Set all colors to the default style that ships with MERK. This is different from the "default" style that is applied to server windows and any windows that do not have a style.
5. **Load style.** Here, you can open any existing MERK style file for editing. Colors and styles will be loaded and displayed.
6. **Save style as....** Save this style to a file. It will not be applied, only saved to a file.
7. **Apply** and **Cancel.** Applying this style automatically saves it. Pressing the "cancel" button closes the dialog, and all changes are discarded.

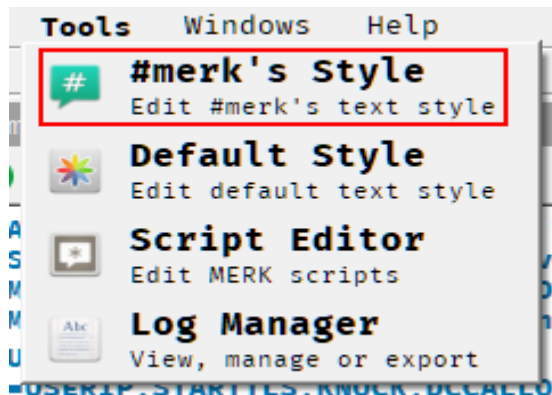
## How Text Styles Are Applied

All chat windows start by using the default style, which can be edited by selecting "Edit default text style" in the "Tools" menu.



All chat windows can have their own styles which can be edited by selecting the "Edit text style" option from the "Tools" menu, the input options menu, or the chat display right click menu. Styles for channel and private chat windows are saved with the IRC network of the channel or private chat in mind, so they will load no matter which server the client is connected to. For example, if the user has set a text style for the **#merk** channel on the EFnet network, it will load and be applied to the **#merk** channel window if the user is connected to **irc.underworld.no** on port 6667, **irc.choopa.net** on port 9999, or **irc.prison.net** on port 6667, as all of these servers are on the EFnet IRC network.

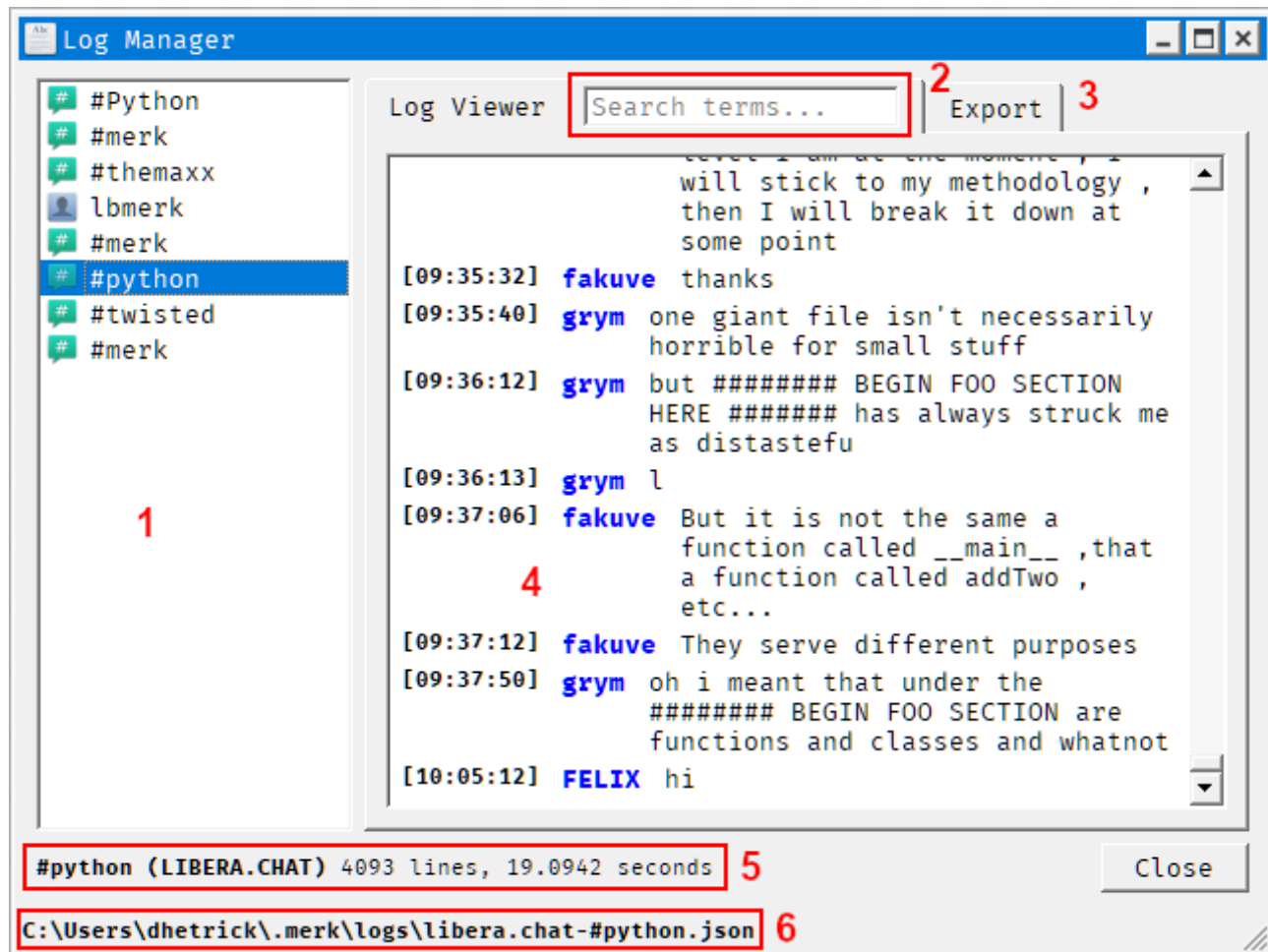
Server window text styles are specific to the server being connected to, regardless of what network the server is on. So, if the user has set a style for **irc.prison.net** on port 6667, the server window text style for that connection will be loaded. If the user connects to **irc.choopa.net** on port 9999, the default style will be loaded; even though both servers on the EFnet network, they are still different servers.



The top entry in the "Tools" menu will be the option to open the text style editor for the current window, if that window's style can be edited. Here, we see the option to edit the style for the **#merk** IRC channel.

# Log Manager

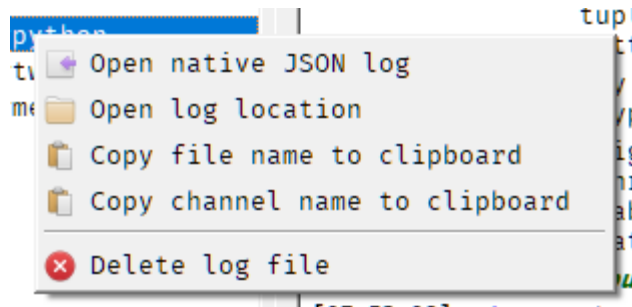
The log manager allows users to view, delete, and export MERK logs.



1. **Logs.** A full list of all logs in MERK. Hover the mouse over the log name to see what IRC network the log is from. Click a log name to view that log in full, as well as use export options.
2. **Search.** Search the log for specific words. Typing in the terms and pressing enter will find the first instance of the term in the log; hitting enter again will find the next, and so on.
3. **Log Viewer and Export Tabs.** Click tabs to switch functions. The **Export** tab has settings and functionality to export MERK logs to JSON or a custom delimited format.
4. **Log display.** Logs are loaded in full for viewing. For longer logs, this may take some time. Logs use the whatever default text style the user has set.
5. **Log information.** Contains the log name, what IRC network the log is from, how many lines of chat the log contains, and how long it took to render the entire log.
6. **Log filename.** The full filename of the current log.

Click the "Close" button to close the log manager.

Additional log options can be seen by right-clicking on the log's name:



If the "Open native JSON log" option is selected, the JSON file that MERK uses will be opened in the default application that the user's operating system to open JSON files. There is additional information in the native log format that tells MERK how to render the log for viewing; to use MERK logs with other applications, the log should be exported to strip this information out.



# Commands and Scripting Guide

## Special Commands

- **/wait** – *Can only be called from scripts*
- **/context** – *Can only be called from scripts*
- **/end** – *Can only be called from scripts*
- **/usage** – *Can only be called from scripts*
- **/restrict** – *Can only be called from scripts*
- **/insert** – *Can only be called from scripts*
- **/style** – *Cannot be called from scripts*
- **/log** – *Cannot be called from scripts*
- **/settings** – *Cannot be called from scripts*
- **/edit** – *Cannot be called from scripts*
- **/focus** – *Cannot be called from scripts; use /context instead*

Most commands can be issued in both the text input widget and scripts. There are six commands, however, that can *only* be issued in scripts: **/wait**, **/context**, **/usage**, **/restrict**, **/insert**, and **/end**. These six commands *cannot* be used in the text input widget. There are five commands that cannot be called by a script, and can only be used in the text input widget: **/edit**, **/style**, **/log**, **/focus**, and **/settings** will display an error and prevent execution if called by a script. To "move" to another window in a script, use **/context** instead of **/focus**.

The **/ignore** command hides chat from a given nickname or user. However, messages from an **/ignored** user are still received and logged, they are just not displayed. That user's chat is hidden from *all* chat displays, no matter what server they are on. You can pass a nickname (which will hide all chat from any user with that nickname) or a hostmask (which will hide chat from only users with that hostmask) to the **/ignore** command. The **/ignore** list is saved to the configuration file, and will be applied universally until the user is **/unignored**.

The **/restrict** command restricts a script's execution to a specific context. The first argument sets what type of context the script will function in: **server** restricts the script's context to server windows or connection scripts, **channel** restricts the script's context to channel windows, and **private** restricts the script's context to private chat windows. A restricted script will *not* execute in another context, and will show an error. Up to two context types can be passed, so **/restrict private channel** would prevent a script from being executed in server windows.

The **/insert** command reads in the contents of any file passed as an argument to it, and "inserts" it into the script where it is called. Any built-in aliases (see [Built-In Aliases](#)) in the inserted script will reference the script where the **/insert** command was issued, including any arguments passed to the calling script. For example, assume you have a script named **stuff.merk**, and it contains:

```
/print Hello from this inserted script!
```

In another script, we use the **/insert** command to insert this file into the scripts:

```
/print This is my main script!  
/insert stuff.merk  
/print And now my script is complete!
```

Once processed, the script that will be executed will look like:

```
/print This is my main script!  
/print Hello from this inserted script!  
/print And now my script is complete!
```

The **/insert** command can be used to insert multiple files into a script; pass each file's name as a separate argument to **/insert**, or issue **/insert** multiple times. Arguments passed to the **/insert** command are tokenized like [script arguments](#), so filenames with spaces in them can be passed to **/insert**, as long as they are contained in quotation marks.

The **/print** command can be used to print text to the current or another window; use the name of the window context as the first argument to print to another window. If this window cannot be found, the text will print to whatever the current window context is.

```
/* This will print to the current window */  
/print Hello world!  
  
/* This will print to the #merk channel window.  
   If the client is not in #merk, it will print to the current  
window. */  
/print #merk Hello world!
```

Most commands require a context to be executed in (see [Context](#)). Commands that can be issued without explicitly specifying a context are **/clear**, **/invite**, **/kick**, **/me**, **/mode**, **/part**, and **/topic**; they will be executed in whatever the current context is, and may not function correctly if the current context does not support that command (for example, calling **/invite** from a server window). The only exception is **/me**: if called from the text input widget of a channel or private chat window, it will send a CTCP action to the current window, using *all* arguments as the text to send in the message. If **/me** is called from a server window,

the first argument specifies the channel or private chat to send the CTCP message to. For example, to send a CTCP message containing "is using MERK" to the **#merk** channel, you could call **/me #merk is using MERK** from a server window. When calling **/me** from a script, *the command will always send to the current chat if running in a channel or private chat window, and must specify the context if running in a server window.*

# Command List

## All Commands

Commands in the list with a gray background are IRC or IRC server related commands, while those with a white background are MERK-specific commands.

Command	Description
<b>/away [MESSAGE]</b>	Sets status as "away"
<b>/back</b>	Sets status as "back"
<b>/ctcp USER REQUEST</b>	Sends a CTCP request to a user. Valid requests are TIME, VERSION, or FINGER
<b>/invite NICKNAME CHANNEL</b>	Sends a channel invitation
<b>/join CHANNEL [KEY]</b>	Joins a channel
<b>/kick CHANNEL NICKNAME [MESSAGE]</b>	Kicks a user from a channel
<b>/knock CHANNEL [MESSAGE]</b>	Requests an invitation to a channel
<b>/list [TERMS]</b>	Lists or searches channels on the server; use "*" for multi-character wildcard and "?" for single character
<b>/me MESSAGE...</b>	Sends a CTCP action message to the current chat
<b>/mode TARGET MODE...</b>	Sets a mode on a channel or user
<b>/msg TARGET MESSAGE...</b>	Sends a message
<b>/nick NEW_NICKNAME</b>	Changes your nickname
<b>/notice TARGET MESSAGE...</b>	Sends a notice
<b>/oper USERNAME PASSWORD</b>	Logs into an operator account
<b>/part CHANNEL [MESSAGE]</b>	Leaves a channel
<b>/ping USER [TEXT]</b>	Sends a CTCP ping to a user
<b>/quit [MESSAGE]</b>	Disconnects from the current IRC server
<b>/raw TEXT...</b>	Sends unprocessed data to the server
<b>/refresh</b>	Requests a new list of channels from the server
<b>/time</b>	Requests server time
<b>/topic CHANNEL NEW_TOPIC</b>	Sets a channel topic
<b>/version [SERVER]</b>	Requests server version
<b>/who NICKNAME [o]</b>	Requests user information from the server
<b>/whois NICKNAME [SERVER]</b>	Requests user information from the server
<b>/whowas NICKNAME [COUNT] [SERVER]</b>	Requests information about previously connected users
<b>/alias</b>	Prints a list of all current aliases
<b>/alias TOKEN TEXT...</b>	Creates an alias that can be referenced by \$TOKEN
<b>/cascade</b>	Cascades all subwindows
<b>/clear [WINDOW]</b>	Clears a window's chat display
<b>/config [SETTING] [VALUE...]</b>	Changes a setting, or searches and displays one or all settings in the configuration file

Command	Description
<b>/connect SERVER [PORT] [PASSWORD]</b>	Connects to an IRC server
<b>/connectssl SERVER [PORT] [PASSWORD]</b>	Connects to an IRC server via SSL
<b>/context WINDOW_NAME</b>	Moves execution of the script to <b>WINDOW_NAME</b> ; can only be called from scripts, and should be used in scripts rather than <b>/focus</b>
<b>/edit [FILENAME]</b>	Opens a script in the editor; if called without an argument, opens an editor window
<b>/end</b>	Immediately ends a script. Can only be called from scripts.
<b>/exit [SECONDS]</b>	Exits the client, with an optional pause of <b>SECONDS</b> before exit
<b>/find [TERMS]</b>	Finds filenames that can be found by other commands, like <b>/script</b> or <b>/edit</b> . If called without any arguments, <b>/find</b> will list all files visible to commands. Can use <b>*</b> for multi-character wildcards and <b>?</b> for single character wildcards.
<b>/focus [SERVER] WINDOW</b>	Switches focus to another window. Cannot be called from scripts (use <b>/context</b> instead)
<b>/help [COMMAND]</b>	Displays command usage information
<b>/ignore USER</b>	Hides a <b>USER</b> 's chat in all chat windows. This can be set to a nickname or hostmask. Capitalization is ignored.
<b>/insert FILE [FILE...]</b>	Inserts the contents of <b>FILE</b> where it appears in the script. <b>FILE</b> should be a MERK script. If a filename contains spaces, put it in quotation marks. Can only be called from scripts.
<b>/log</b>	Opens the log manger. Cannot be called from a script
<b>/maximize [SERVER] WINDOW</b>	Maximizes a window
<b>/minimize [SERVER] WINDOW</b>	Minimizes a window
<b>/play FILENAME</b>	Plays a WAV file
<b>/print [WINDOW] TEXT...</b>	Prints text to a window
<b>/restrict channel server private</b>	Prevents a script from running if it is not being executed in a <b>channel</b> , <b>server</b> , or <b>private</b> chat window. Up to two window types can be set. Can only be called from scripts.
<b>/restore [SERVER] WINDOW</b>	Restores a window
<b>/script FILENAME [ARGUMENTS]</b>	Executes a list of commands in a file. If the script has a file extension of <b>.merk</b> , it may be omitted from <b>FILENAME</b> .
<b>/settings</b>	Opens the settings dialog. Cannot be called from a script
<b>/shell ALIAS COMMAND...</b>	Executes an external program, and stores the output in an alias
<b>/style</b>	Edits the current window's style. Cannot be called from a script

Command	Description
<b>/tile</b>	Tiles all subwindows
<b>/unalias TOKEN</b>	Deletes the alias referenced by <b>\$TOKEN</b>
<b>/unignore USER</b>	Un-hides a <b>USER</b> 's chat in all chat windows. This can be set to a nickname or hostmask. Capitalization is ignored. To un-hide all users, use <b>*</b> as the argument.
<b>/usage NUMBER [MESSAGE...]</b>	Prevents a script from running unless <b>NUMBER</b> arguments are passed to it, and displays <b>MESSAGE</b> . Can only be called from scripts
<b>/wait SECONDS</b>	Pauses script execution for SECONDS; can only be called from scripts
<b>/xconnect SERVER [PORT] [PASSWORD]</b>	Connects to an IRC server & executes connection script
<b>/xconnectssl SERVER [PORT] [PASSWORD]</b>	Connects to an IRC server via SSL & executes connection script

## Script-Only Commands

These commands can only be called from scripts. Attempts to use them in the text input widget will fail and show an error.

Command	Description
<b>/context WINDOW_NAME</b>	Moves execution of the script to <b>WINDOW_NAME</b> ; can only be called from scripts, and should be used in scripts rather than <b>/focus</b>
<b>/end</b>	Immediately ends a script. Can only be called from scripts.
<b>/insert FILE [FILE...]</b>	Inserts the contents of <b>FILE</b> into the script. <b>FILE</b> should be a MERK script. If a filename contains spaces, put it in quotation marks. Can only be called from scripts.
<b>/restrict channel server private</b>	Prevents a script from running if it is not being executed in a <b>channel</b> , <b>server</b> , or <b>private</b> chat window. Up to two window types can be set. Can only be called from scripts.
<b>/usage NUMBER [MESSAGE...]</b>	Prevents a script from running unless <b>NUMBER</b> arguments are passed to it, displaying <b>MESSAGE</b> . Can only be called from scripts.
<b>/wait SECONDS</b>	Pauses script execution for SECONDS; can only be called from scripts

## Non-Script Commands

These commands cannot be called from scripts. Scripts that use these commands will prevent the script from being executed, and show an error.

Command	Description
<b>/edit [FILENAME]</b>	Opens a script in the editor; if called without an argument, opens an editor window. Cannot be called from a script
<b>/focus [SERVER] WINDOW</b>	Switches focus to another window. Cannot be called from a script (use <b>/context</b> instead)
<b>/log</b>	Opens the log manger. Cannot be called from a script
<b>/settings</b>	Opens the settings dialog. Cannot be called from a script
<b>/style</b>	Edits the current window's style. Cannot be called from a script



## Context-less Commands

These commands can be called without specifying the channel, chat, or window they are for. They will run in the current context. Commands with a gray background are IRC specific commands.

Command	Description
<b>/clear</b>	Clears the current window's chat display
<b>/invite NICKNAME</b>	Sends a channel invitation to the current channel
<b>/kick NICKNAME [MESSAGE]</b>	Kicks a user from the channel
<b>/me MESSAGE...</b>	Sends a CTCP action message to the current chat
<b>/mode MODE...</b>	Sets a mode on the current channel
<b>/part [MESSAGE]</b>	Leaves the channel
<b>/topic NEW_TOPIC</b>	Sets the current channel's topic

# Scripting MERK

There are two types of scripts in MERK: connection scripts, and all other scripts.

## Connection Scripts

Connection scripts are the scripts entered into the connection dialog, and are intended to be executed as soon as the client connects to the server. Unlike other scripts, they are stored in the user configuration file, and, outside of connection, can only be executed with the script editor. Connection scripts have the context of the associated server window created when connection begins (see [Context](#) and [Writing Connection Scripts](#)).

## All Other Scripts

All other scripts are, well, *scripts*: a list of commands, one per line, issued in order. Scripts have a context, which is the window that they are called from or executed in. They can be executed in several ways:

- From the "Run" button on a server window's toolbar. The script will be executed in the server window's context.
- From the "Run" entry in a window's input menu. The text in the text input widget will be replaced with a call to the `/script` command to execute the selected file.
- From the "Run" entry in a window's chat display right-click menu. The text in the text input widget will be replaced with a call to the `/script` command to execute the selected file.
- By issuing the `/script` command. The script will be executed in the window that the command was called from's context.
- From the "Run" menu in a script editor window. The user can select which context to run the script in, or optionally select to run the script on *all* windows simultaneously (with each window running that script in the window's context).

When using the `/script` command, scripts are searched for as outlined in [Directories and Configuration Files](#); if the script can be found in this directory search, the path to that script can be omitted. For example, if a script named `example.merk` is in the `/scripts` directory, calling `/script example.merk` will execute that script. If the file extension to the script is `.merk`, then the file extension can be omitted; `/script example` will also execute that script in the previous example.

Scripts can have comments. Comments must begin with `/*` and end with `*/`, and can span multiple lines. Commands issued within comment blocks will be ignored, as will any text inside the comment block:

```
/*  
/msg $_WINDOW This command WILL NOT be executed  
*/  
  
/msg $_WINDOW This command WILL be executed
```

## Errors

For the most part, MERK ignored errors in scripts, and execute in full. However, errors in [script-only commands](#) will prevent execution. If any of the following script-only command errors or conditions are detected, a script will not execute:

- Calling **/wait** with a non-number argument
- Calling **/context** with a window/context that does not exist
- Calling **/usage** with the wrong number of arguments
- Calling **/usage** with a non-number as the first argument
- Calling **/restrict** with the wrong number of arguments
- Calling **/restrict** with an argument that is not server, channel, or private
- Calling **/end** with any arguments
- Calling **/insert** no arguments
- Calling **/insert** with a file that cannot be found or doesn't exist
- Executing a script in a context that is not allowed by **/restrict**
- Calling a [command that cannot be called in scripts](#)

Every other command error will display an error message (if script error messages are turned on in settings), and continue execution of the script. Error messages will be displayed for:

- Lines that do not contain a command
- Lines that start with / and are not followed by a valid command
- Calls to commands with an incorrect number of arguments
- Calls to commands with invalid arguments
- Scripts being executed in the "wrong" context

If an error is encountered, an error message will be displayed. The error message will contain:

- The line number the error occurred on
- A description of the error

After the error is displayed, **the script will continue to execute**. Scripts run in an external process, and cannot be halted (with the only exceptions described above). Please write, read, and test your scripts carefully.

## Aliases

Aliases are tokens that can be created to insert specific strings into your input in the client (if the "Interpolate aliases into input" setting is turned on, which is the default) or into your scripts. They function kind of like variables<sup>3</sup> do in programming languages. As an example, let's create an alias named 'GREETING', and set it to the value 'Hello world!':

```
/alias GREETING Hello world!
```

Now, if you want to insert the string "Hello world!" into a command or any output, you can use the alias interpolation symbol, which is **\$** by default, followed by the aliases name, to insert your alias into the command or output:

```
/msg #mychannel $GREETING
```

This sends a message to `#mychannel` that says "Hello world!" to everyone in the channel!

Alias names *must* start with a letter, and not a number or other symbol. This is to prevent overwriting built-in aliases created for each window's context (see [Built-In Aliases](#)).

To create an alias, use the **/alias** command. To see a list of all aliases set for the current window, issue the **/alias** command with no arguments. To delete an alias, issue the **/unalias** command.

Aliases can also be used as macros, and can contain an entire command. For example, let's say that you like to issue a greeting to everyone that enters a channel, but typing **/msg #mychannel Hello, and welcome!** is a pain to type every time someone joins, you could create this alias:

```
/alias GREETING /msg $_WINDOW Hello, and welcome!
```

Now, whenever someone joins your channel, just type **\$GREETING** into the text input widget to send your message! The above example uses a built-in alias, which is explained in **Built-In Aliases**.

All aliases are *global*; that is, they are available to all and every script executed on the client after they are created. They can also be changed by any script or command. Aliases created by connection scripts will be available and visible to any scripts executed after the connection script (including other connection scripts). Any script can also delete an alias with the **/unalias** command.

Built-in aliases cannot be deleted with the **/unalias** command. The client will display an error that says the alias doesn't exist if attempted.

---

<sup>3</sup> [https://en.wikipedia.org/wiki/Variable\\_\(computer\\_science\)](https://en.wikipedia.org/wiki/Variable_(computer_science))

## Built-In Aliases

Each window has a number of aliases for use that are built-in to the window's context, and do not require the user to create them. Built-in alias names start with an underscore (\_) and are all uppercase. Some built-in aliases (like **\_FILE**, **\_ARGS**, and **\_SCRIPT**) are only created in certain circumstances. Commands shown in the table below with a gray background are usually only created for scripts executed with the **/script** command (see [Script Arguments](#)).

Alias	Value
<b>_ARGS</b>	The number of arguments passed to a script. Only present in scripts that have been executed with the <b>/script</b> command.
<b>_HOST</b>	The reported hostname of the server the window is connected to; if that is not know, then this will be set to the server's address, a colon, and the server's port.
<b>_FILE</b>	The full filename of the currently running script. Only present in scripts that have been executed with the <b>/script</b> command. If called from an <b>/inserted</b> file, this will contain the name of the script being executed, not the <b>/inserted</b> file.
<b>_MODE</b>	Any modes set on the user associated with the window.
<b>_NICKNAME</b>	The user's nickname.
<b>_PORT</b>	The port on the server the window is connected to
<b>_PRESENT</b>	If the window the alias is being used in is a channel window, this will contain a list of users in that channel, separated by commas.
<b>_REALNAME</b>	The user's realname, as set in user settings.
<b>_SCRIPT</b>	The name of the file, without the full path, of the currently running script. Only present in scripts that have been executed with the <b>/script</b> command. If called from an <b>/inserted</b> file, this will contain the name of the script being executed, not the <b>/inserted</b> file.
<b>_SERVER</b>	The server the window is connected to; this will be the address used to connect to the server
<b>_STATUS</b>	If the window is associated with a channel, this will contain the window's channel status ( <b>operator</b> , <b>voiced</b> , etc.); otherwise, this will be set to <b>normal</b> .
<b>_TOPIC</b>	If the window the alias is being used in is a channel window, this will contain the channel's topic, if there is one.
<b>_UPTIME</b>	How long the window the alias is used in has been connected or has been in use, in seconds.
<b>_USERNAME</b>	The user's username, as set in user settings.
<b>_WINDOW</b>	The name of the window the alias is being used in
<b>_WINDOW_TYPE</b>	The type of window the alias is being used in; either <b>server</b> for server windows, <b>channel</b> for channel windows, or <b>private</b> for private chat windows

Built-in aliases can be very useful in scripts, where the script may not "know" what context it is running in:

```
/* This sends a message to the current channel */
/msg $_WINDOW Hello, everybody! My name is $_NICKNAME

/* This sets the current channel's topic */
/topic $_WINDOW We've been around for $_UPTIME seconds!
```

## Context

A script or command's *context* is a reference to the window the script or command is being executed in. Context is, for the most part, only necessary for scripts; the context for any commands issued by a window's text input widget is the window the command is being issued in.

Some commands can ignore an argument if they are for the current context; for example, when issuing the **/part** command, you can ignore the **CHANNEL** argument if the command is intended to be executed in the current window's context:

```
/* This leaves the current channel */
/part

/* This invites a user to the current channel */
/invite my_friend

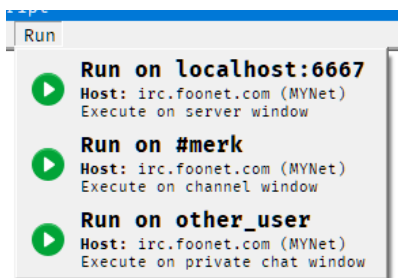
/* This kicks a user from the current channel */
/kick my_enemy

/* This gives a user operator status in the current channel */
/mode +o my_friend

/* This sets the topic in the current channel */
/topic Welcome to my channel!
```

Context-less commands should *not* be issued by scripts, as it can get confusing if you run the script in the wrong context. However, if the script is being ran in a channel's or private chat window's context, context-less commands are available to the script.

When running a script from a window, either through the server window's toolbar, or the input menu, the script is always ran in that window's context. The script editor "Run" menu allows you to choose which context to run the script in. If MERK is connected to more than one server, and in more than one channel or private chat on each server, the "Run" menu will give options to run the script in all of each context; for example, you can run a script in all connected channels.



*An example "Run" menu from the script editor. The client is connected to a server on **localhost:6667**, and is in the channel **#merk** while having a private chat with **other\_user**. Each selection will run the script in the specified context.*

A window's context is "connected" to any other window contexts that share the same network stream. Commands issued from the text input widget in server or chat windows can only effect other windows that share the same server connection. This is called a "shared context".

For example, let's assume that MERK is connected to two servers, **irc.example.com** and **irc.other.net**. On **irc.example.com**, MERK is connected to two channels, **#merk** and **#python**. On **irc.other.net**, MERK is connected to the channel **#qt**. In this example, **#merk** and **#python** have a shared context, while **#qt** doesn't have a shared context with the other two window. Commands issued in **#qt** will not be able to have an effect on **#merk** or **#python**, and vice versa.

Scripts do not have this limitation, because they can use the **/context** command. The **/context** command will search for all windows, no matter what context. The order **/context** looks for windows is:

1. Windows that have a shared context with the context the script was executed in.
2. Windows from all contexts.
3. Server windows.

**/context** will move to the *first* window it finds with the name passed to it. If you are in multiple channels with the same name, this may be problematic.

If a script is intended to only be ran in a specific type of context, the **/restrict** command can be used, in one of three ways:

- **/restrict server** – The script will only run in server windows or connection scripts
- **/restrict channel** – The script will only run in channel windows
- **/restrict private** – The script will only run in private chat windows

A script that has been "restricted" will *only* run in the context specified, and will not execute and show an error if it is ran in another context. Up to two contexts can be passed to **/restrict**. For example, to make sure that a script is ran *only* in chat windows, use **/restrict channel private**.

## Script Arguments

Arguments can be passed to a script with the **/script** command; just pass them as arguments to the command following the script file name. The **/script** command is the *only* way to pass arguments to a script.

Script arguments are tokenized<sup>4</sup> differently than arguments for commands. In arguments for most commands, arguments are considered to consist of either a single word, with no spaces, or a number of words separated by spaces. A channel name, for example, or a nickname may be an argument; the **/msg** command looks for a channel or nickname as the first argument, with all other arguments being the message to be sent. Arguments to scripts can contain spaces, and the number of arguments is important. To use an argument with spaces in it, contain the argument with quotation marks.

```
/* This calls a script with a single argument */
/script myscript.merk "Hello, world!"

/* Here are multiple arguments, with spaces in each */
/script test.merk "First argument!" "Second argument!" "And third!"
```

To access these arguments, a built-in alias is created for each one, and another is created for all arguments. Each built-in alias is named with the number of the argument: **\_1** for the first argument, **\_2** for the second, **\_3** for the third, and so on. The built-in alias **\_0** contains all arguments passed to the script, joined by single spaces.

To make sure your script is called with the right number or arguments, use the **/usage** command. As the first argument to **/usage**, pass the number of arguments your script requires. All arguments after this first will be displayed in the error message if your script is called with an improper number of arguments.

As an example, let's write a script that sends a greeting to someone in the current chat. Our script will require a single argument, a name. When executed with the right number of arguments, it will send the greeting to chat, and if executed with too few arguments, will tell the user how to use the script. Open the script editor, and paste the following code into it, saving the file as **greet.merk**.

```
/*
    This script requires a single argument.
    If none or more than one argument is passed,
    display script usage information.
*/
/usage 1 Usage: /script $_SCRIPT NAME

/msg $_WINDOW Hello there, $_1! Nice to see you!
```

---

4 [https://en.wikipedia.org/wiki/Lexical\\_analysis#Tokenization](https://en.wikipedia.org/wiki/Lexical_analysis#Tokenization)



Let's execute our script! In the text input widget, type the following and hit enter:

```
/script greet other_user
```

Our greeting is sent to the current chat:

```
wraithnix Hello there, other_user! Nice to see you!
```

If we executed our script with no arguments, or more than one argument, an error message is displayed:

```
Usage: /script greet.merk NAME
```

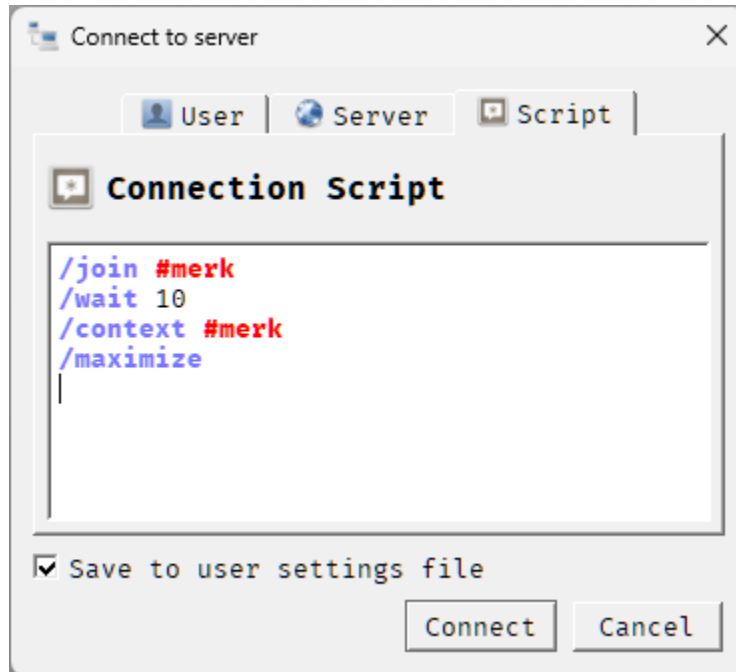
Connection scripts are *never* called with any arguments. Scripts executed by any way other than the **/script** command are *never* called with any arguments.

Several built-in aliases are created for scripts. **\_FILE** contains the full filename of the script (including path) being called, **\_SCRIPT** contains the filename of the script without the path, and **\_ARGS** contains the number of arguments the script was called with. The example above has a use of the **\_SCRIPT** built-in alias.

Scripts executed with the "Run" menu in the editor are *never* called with any arguments (and will not have the **\_ARGS** built-in alias), and will only have the **\_SCRIPT** or **\_FILE** built-in aliases if the script has been saved to or loaded from a filename. Scripts executed with the "Run script" button on server window toolbars will have the **\_SCRIPT** and **\_FILE** built-in aliases, but as they are *never* called with arguments, will not have the **\_ARGS** built-in alias.

Argument built-in aliases can be used with **/inserted** scripts, but they will always reference the script that is being executed, not the **/inserted** script. For example, if an **/inserted** script includes the built-in alias **\$\_1**, that alias will interpolate to the first argument that was passed to the script that is being executed, *not* the **/inserted** file.

## Writing Connection Scripts



Connection scripts are the scripts that can be entered in the connection dialog, and are executed as soon as the client completes connecting to a server. A connection script's context is the server window created when connecting. In fact, calling **/restrict server** to restrict the connection script's execution to a server window will pass successfully, while using **/restrict** with any other context type will cause the connection script to not execute.

To issue commands that will have an effect on another window, use the **/context** command to move the script to that window's context.

Before **/contexting** to another context, be aware that that window (and the context) may "not exist" yet. The channel join may not have completed, the private chat that you intended to start has not started yet, etc. The **/wait** command will help you in these situations, so you can make sure that all the contexts for your script have been created before you issue commands.

For example, let's say that when you connect to your favorite server, automatically join your favorite channel, **#merk**, say hello, and maximize the channel window. Your connection script might look like:

```
/alias FAVORITE #merk
/join $FAVORITE
/msg $FAVORITE Hello, everybody!
/wait 10
/context $FAVORITE
/print $_WINDOW Maximizing $FAVORITE!
/maximize $_WINDOW
```

How long to **/wait** after connection will take some trial and error, due to many factors: the speed of your Internet connection, the speed of your computer, how busy the server is, how big of a log the client is loading for display, among other things. When in doubt, a longer **/wait** is preferable to a shorter one, to make sure that your script executes properly. When first writing a connection script, try **/wait 30** to pause the script for 30 seconds, and tweak from there.

## Example Scripts

### Wave

This is a simple script that sends an emoji to the current chat, and adds a shortcut to executing the script. When executed in a channel or private chat window, it will send the "wave" emoji to the current chat. It also creates an alias, allowing the user to type **\$wave** to send the wave emoji.

```
/*  
    Wave Script  
    By Dan Hetrick  
*/  
  
/restrict channel private  
/msg $_WINDOW :wave:  
/alias wave /script $_FILE
```

What this script does specifically:

1. Restrict the scripts execution to channel and private chat windows.
2. Sends the "wave" emoji to the current chat
3. Creates an alias named "wave" that will re-execute the script

### Greeting

This script sends a greeting to the as a private message to a user. It takes a single argument, the username of the person the greeting is being sent to.

```
/*  
    Greeting Script  
    By Dan Hetrick  
*/  
  
/usage 1 Usage: /script $_SCRIPT nickname  
/msg $_1 Hello! Nice to see you!
```

What this script does specifically:

1. Makes sure the script is called with a single argument
2. Sends a greeting as a private message to the user set in the single argument

## Example Connection Script

This script should be set as a connection script. Upon connection to the server, it will log the user into **NICKSERV**, join a channel the user owns, tell **CHANSERV** to give them operator status in the channel, set the channel topic, maximize the channel's window, and send a greeting to the channel

```
/*  
    Example Server Connection Script  
*/  
  
/restrict server  
/alias USERNAME my_username  
/alias PASSWORD my_password  
/alias CHANNEL #my_channel  
/alias TOPIC Welcome to my channel!  
/alias GREETING $_NICKNAME is here, everybody!  
  
/msg nickserv IDENTIFY $USERNAME $PASSWORD  
/wait 5  
/join $CHANNEL  
/msg chanserv OP $CHANNEL  
/wait 10  
/context $CHANNEL  
/topic $TOPIC  
/maximize  
/wait 1  
/msg $_WINDOW $GREETING
```

What this script does specifically:

1. Restrict the script's execution to server windows
2. Sets an alias for the user's **NICKSERV** username
3. Sets an alias for the user's **NICKSERV** password
4. Sets an alias for the user's channel
5. Sets an alias for the channel's topic
6. Sets an alias for the greeting to send once everything else is done
7. Logs into **NICKSERV** with the set username and password
8. Waits 5 seconds
9. Join the set channel
10. Tells **CHANSERV** to give the user operator status in the set channel
11. Waits 10 seconds
12. Switches contexts to the channel window
13. Sets the current channel's topic
14. Maximizes the current channel window
15. Waits 1 second
16. Sends the greeting to the current channel

## Inserting Files

If there's data or aliases that you want to use in more than one script, the `/insert` command makes that easy. In the last example, a script was used to login to **NICKSERV**. In this example, we're going to store our login information in one script, and use it in another.

login.merk

```
/*  
    NICKSERV Login  
*/  
  
/alias USERNAME my_username  
/alias PASSWORD my_password  
/alias LOGIN_TO_NICKSERV /msg NICKSERV IDENTIFY $USERNAME $PASSWORD
```

Now, to login to **NICKSERV** from another script, use the `/insert` command to insert this file into the script, and issue the full command:

```
/insert login.merk  
$LOGIN_TO_NICKSERV
```

Once all aliases have been interpolated into the script, this will end up being the script that is executed:

```
/msg NICKSERV IDENTIFY my_username my_password
```

## Advanced Settings

The last section in the "Settings" dialog shows a number of settings that can be used to fundamentally change how MERK works. **WARNING:** Changing these settings may break your installation of MERK, break any existing scripts, or fill up your hard drive.

### Resetting MERK to Default Settings

If your installation of MERK becomes unusable or for any other reason, you can reset MERK back to default settings with the following [command-line option](#):

```
python merk.py --reset
```

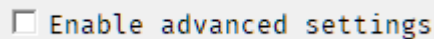
If you are running MERK with the PyInstaller executable, use:

```
merk.exe --reset
```

Changing these settings is not recommended, but may be desired.

### Options

To change any of these settings, advanced settings must be enabled by clicking this checkbox:



Unchecking this checkbox will reset all the advanced settings to the value stored in the configuration file, and no settings will be saved. This *must* be enabled when clicking the "Apply" or "Apply & Restart" buttons for any changes to be saved. When changing any advanced setting, restarting MERK is recommended.

- **Enable aliases.** Unchecking this box will disable aliases in scripts, in user input, and any alias-related commands. This will also disable a number of alias-related settings elsewhere in the "Settings" dialog.
- **Interpolate aliases into input from the text input widget.** If unchecked, aliases will still work in scripts, but cannot be used in the text input widget.
- **Alias interpolation symbol.** Here, you can set the symbol used by MERK to interpolate aliases into input or scripts (by default, \$). This can be a single or multiple-character symbol.
- **Enable text style editor.** Unchecking this option will disable the ability to edit window text styles. Any edited text styles will still be loaded and used.

- **Show error messages when executing scripts.** Unchecking this option will hide any error messages from scripts. Scripts will still be executed normally.
- **Enable /shell command.** Unchecking this option will disable the `/shell` command.
- **Show server pings in server windows.** MERK sends "pings" to the IRC server to keep the network connection active. Checking this box will display whenever the client receives a "ping" reply from the server.
- **Save all system messages to log.** Checking this option will save nearly all messages displayed if logging is turned on. This will drastically increase the size of saved logs.
- **Write all network input and output to STDOUT.** This will show all IRC network traffic in STDOUT, which is normally printed to the console MERK is being ran from. This will not display anything if MERK is being executed with the PyInstaller executable (without using additional software to view STDOUT).
- **Write all network input and output to a file in the user's settings directory.** This will write all network input and output to a file or files in the **settings** directory. Each IRC connection will have its input and output written to a file named **SERVER-PORT.txt**. So, a connection to `irc.libera.chat` on port **6697** would have its input and output written to `irc.libera.chat-6697.txt`. **WARNING!** This will write a lot of data to your hard drive.



