
aqtinstall Documentation

Release 1.0.0b2

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1.1 Requirements

- Minimum Python version: 3.6
- Recommended Python version: 3.7.5 or later
- Dependent libraries: requests, py7zr

1.2 Install by pip command

Same as usual, it can be installed with *pip*

```
$ pip install aqtinstall
```


General usage looks like this:

```
aqt [-h] [--help] [-O | --outputdir <directory>] [-b | --base <mirror url>] [-E | --
external <7zip command>] \
    install <qt-version> <host> <target> [<arch>] [-m all | -m [extra module] [extra_
module]...] [--internal]
    [--archives <archive>[ <archive>...]] [--timeout <timeout(sec)>]
```

You can also call with `python -m aqt` syntax as well as command script `aqt`.

- The Qt version is formatted like this: *5.11.3*
- Host is one of: *linux, mac, windows*
- Target is one of: *desktop, android, ios* (iOS only works with mac host)
- **For some platforms you also need to specify an arch:**
 - **For windows, choose one of:**
 - * *win64_msvc2019_64, win32_msvc2019,*
 - * *win64_msvc2017_64, win32_msvc2017,*
 - * *win64_msvc2015_64, win32_msvc2015,*
 - * *win64_mingw81, win32_mingw81,*
 - * *win64_mingw73, win32_mingw73,*
 - * *win64_mingw53, win32_mingw53,*
 - * *win64_msvc2019_winrt_x64, win64_msvc2019_winrt_x86, win64_msvc2019_winrt_armv7*
 - * *win64_msvc2017_winrt_x64, win64_msvc2017_winrt_x86, win64_msvc2017_winrt_armv7*
 - For android and Qt 5.13 or below, choose one of: *android_x86_64, android_arm64_v8a, android_x86, android_armv7*
- You can specify external 7zip command path instead of built-in extractor.

- When specifying *all* for extra modules option *-m* all extra modules are installed.

2.1 Installing tool and utility (Experimental)

You can install tools and utilities using following syntax;

```
python -m aqt [-h] [--help] [-O | --outputdir <directory>] [-b | --base <mirror url>] [-E,
→ | --external <7zip command>] \
    tool <host> <tool_name> <tool-version> <arch> [--timeout <timeout>]
```

- *tool_name* is one of *tools_ifw*, *tools_vcredis*, and *tools_openssl*.
- *arch* is full qualified tool name such as *qt.tools.ifw.31* which values can be seen on Qt [archive_site](#) This is a quite experimental feature, may not work and please use it with your understanding of what you are doing.
- It does not recognize ‘installscript.qs’. When using tools which depends on a qt script, you should do something by yourself.

2.2 Target directory

aqt can take option ‘*--outputdir*’ or ‘*-O*’ that specify a target directory.

The Qt packages are installed under current directory as such *Qt/<ver>/gcc_64/* If you want to install it in *C:Qt* as same as standard gui installer default, run such as follows:

```
C:\> mkdir Qt
C:\> aqt install --outputdir c:\Qt 5.11.3 windows desktop win64_msvc2019_64
```

Command Line Options

The CLI uses argparse to parse the command line options so the short or long versions may be used and the long options may be truncated to the shortest unambiguous abbreviation.

3.1 Generic commands

help

show generic help

list <Qt version> <target OS>

list available variations. positional arguments: qt_version Qt version in the format of “5.X.Y”
{linux,mac,windows} host os name {desktop,wint,android,ios} target sdk

3.2 Installation command

install <Qt version> <target OS> <target variant> <target architecture>

install Qt library specified version and target. There are various combinations to accept according to Qt version.

Qt version

This is a Qt version such as 5.9,7, 5.12.1 etc

target OS

linux, windows or mac

target variant

desktop, ios or android

target architecture

- gcc_64 for linux desktop
- clang_64 for mac desktop

- win64_msvc2019_64, win64_msvc2017_64, win64_msvc2015_64, win32_msvc2015, win32_mingw53 for windows desktop
- android_armv7, android_arm64_v8a, android_x86, android_x86_64 for android

--version, -v
Display version

--help, -h
Display help text

--outputdir, -O <Output Directory>
specify output directory.

--base, -b <base url>
specify mirror site base url such as -b '<https://mirrors.ocf.berkeley.edu/qt/>' where 'online' folder exist.

--modules, -m <list of modules>
specify extra modules to install as a list.

--archives <list of archives>
[Advanced] Specify subset of archives to **limit** installed archives. This is advanced option and not recommended to use for general usage. Main purpose is speed up CI/CD process by limiting installed modules. It can cause broken installation of Qt SDK.

--noarchives
[Advanced] Specify not to install all base packages. This is advanced option and you should use with **--modules** option. This allow you to add modules to existent Qt installation.

3.3 Tool installation commands

src <Qt version> <target OS> <target variant> [--kde] [--archives <archive>]
install Qt sources specified version and target. by adding **--kde** option, KDE patch collection is applied for qtbase tree. It is only applied to Qt 5.15.2. When specified version is other than it, command will abort with error when using **--kde**. You can specify **--archives** option to install only a specified source such as qtbase.

doc <Qt version> <target OS> <target variant>
install Qt documents specified version and target.

examples <Qt version> <target OS> <target variant>
install Qt examples specified version and target.

tool <target OS> <target tool name> <target tool version> <tool variant name>
install tools specified. tool name may be 'tools_openssl_x64', 'tools_ninja', 'tools_ifw', 'tools_cmake' and tool variants name may be 'qt.tools.openssl.gcc_64', 'qt.tools.ninja', 'qt.tools.ifw.32', 'qt.tools.cmake'. You may need to looking for version number at <https://download.qt.io/online/qtsdkrepository/>

CHAPTER 4

Command examples

Example: Installing Qt SDK 5.12.0 for Linux with QtCharts and QtNetworkAuth:

```
pip install aqtinstall
sudo aqt install --outputdir /opt 5.12.0 linux desktop -m qtcharts qtnetworkauth
```

Example: Installing Android (armv7) Qt 5.10.2:

```
aqt install 5.10.2 linux android android_armv7
```

Example: Install examples, doc and source:

```
C:\ aqt examples 5.15.2 windows desktop -m qtcharts qtnetworkauth
C:\ aqt doc 5.15.2 windows desktop -m qtcharts qtnetworkauth
C:\ aqt src 5.15.2 windows desktop --archives qtbases --kde
```

Example: Install Web Assembly

```
aqt install 5.15.0 linux desktop wasm_32
```

Example: Install an Install Framework (IFW):

```
aqt tool linux tools_ifw 4.0 qt.tools.ifw.40
```

Example: Install vcredist:

```
C:\ aqt tool windows tools_vcredist 2019-02-13-1 qt.tools.vcredist_msvc2019_x64
C:\ .\Qt\Tools\vcredist\vcredist_msvc2019_x64.exe /norestart /q
```

Example: Install MinGW on Windows

```
C:\ aqt tool -O c:\Qt windows tools_mingw 8.1.0-1-202004170606 qt.tools.win64_
  ↳ mingw810w
c:\ set PATH=C:\Qt\Tools\mingw810_64\bin
```

Example: Show help message

```
aqt help
```

Available Qt versions

Here is an available combinations of Qt versions and platforms. It is based on contents at <https://download.qt.io/> as in January, 2021.

WARNING: Older versions may be removed and new version will be added, because The Qt Foundation maintains the site and aqtinstall just see there. So there is no guarantee for you to be able to install versions listed here.

5.1 Desktop

Qt SDK for Desktop applications are provided for linux, mac and windows.

5.1.1 Linux

Variant	Qt Versions
gcc_64	<ul style="list-style-type: none">• 6.0.1, 6.0.0, 5.13.0• 5.15.2, 5.15.1, 5.15.0• 5.14.2, 5.14.1, 5.14.0• 5.13.2, 5.13.1• 5.12.9, 5.12.8, 5.12.7, 5.12.6, 5.12.5, 5.12.4, 5.12.3, 5.12.2, 5.12.1, 5.12.0• 5.11.3, 5.11.2, 5.11.1, 5.11.0• 5.10.1, 5.10.0• 5.9.9, 5.9.8, 5.9.7, 5.9.6, 5.9.5
wasm_32	<ul style="list-style-type: none">• 5.15.2, 5.15.1, 5.15.0• 5.14.2, 5.14.1, 5.14.0• 5.13.2, 5.13.1

5.1.2 mac

Variant	Qt Versions
clang_64	<ul style="list-style-type: none">• 6.0.1, 6.0.0, 5.13.0• 5.15.2, 5.15.1, 5.15.0• 5.14.2, 5.14.1, 5.14.0• 5.13.2, 5.13.1• 5.12.9, 5.12.8, 5.12.7, 5.12.6, 5.12.5, 5.12.4, 5.12.3, 5.12.2, 5.12.1, 5.12.0• 5.11.3, 5.11.2, 5.11.1, 5.11.0• 5.10.1, 5.10.0• 5.9.9, 5.9.8, 5.9.7, 5.9.6, 5.9.5
wasm_32	<ul style="list-style-type: none">• 5.15.2, 5.15.1, 5.15.0• 5.14.2, 5.14.1, 5.14.0• 5.13.2, 5.13.1

5.1.3 windows

Variant	Qt Versions
win64_msvc2019_64	<ul style="list-style-type: none">• 6.0.1, 6.0.0• 5.15.2, 5.15.1, 5.15.0
win32_msvc2019	<ul style="list-style-type: none">• 5.15.2 5.15.1 5.15.0
win64_msvc2017_64	<ul style="list-style-type: none">• 5.14.2, 5.14.1, 5.14.0• 5.13.2, 5.13.1, 5.13.0• 5.12.9, 5.12.8, 5.12.7, 5.12.6, 5.12.5, 5.12.4, 5.12.3, 5.12.2, 5.12.1, 5.12.0• 5.11.3, 5.11.2, 5.11.1, 5.11.0• 5.10.1, 5.10.0• 5.9.9, 5.9.8, 5.9.7, 5.9.6, 5.9.5
win32_msvc2017	<ul style="list-style-type: none">• 5.14.2, 5.14.1, 5.14.0• 5.13.2, 5.13.1, 5.13.0
win64_msvc2015_64	<ul style="list-style-type: none">• 5.15.2 5.15.1 5.15.0• 5.14.2 5.14.1 5.14.0• 5.13.2 5.13.1, 5.13.0• 5.12.9, 5.12.8, 5.12.7, 5.12.6, 5.12.5, 5.12.4, 5.12.3, 5.12.2, 5.12.1, 5.12.0• 5.11.3, 5.11.2, 5.11.1, 5.11.0• 5.10.1, 5.10.0• 5.9.9, 5.9.8, 5.9.7, 5.9.6, 5.9.5
win32_msvc2015	<ul style="list-style-type: none">• 5.11.3, 5.11.2, 5.11.1, 5.11.0• 5.10.1, 5.10.0• 5.9.9, 5.9.8, 5.9.7, 5.9.6, 5.9.5
<ul style="list-style-type: none">• win64_mingw81• win32_mingw81	<ul style="list-style-type: none">• 6.0.1, 6.0.0• 5.15.2, 5.15.1, 5.15.0
<ul style="list-style-type: none">• win64_mingw73• win32_mingw73	<ul style="list-style-type: none">• 5.14.2, 5.14.1, 5.14.0• 5.13.2 5.13.1, 5.13.0• 5.12.9, 5.12.8, 5.12.7, 5.12.6, 5.12.5, 5.12.4, 5.12.3, 5.12.2, 5.12.1, 5.12.0
win32_mingw53	<ul style="list-style-type: none">• 5.11.3, 5.11.2, 5.11.1, 5.11.0• 5.10.1, 5.10.0• 5.9.9, 5.9.8, 5.9.7, 5.9.6, 5.9.5
wasm_32	<ul style="list-style-type: none">• 5.15.2 5.15.1 5.15.0• 5.14.2 5.14.1 5.14.0• 5.13.2 5.13.1

5.2 Mobile platforms

5.2.1 android

android SDK is provided for linux, mac and windows.

Variant	Qt Versions
<ul style="list-style-type: none"> • android_arm64_v8a • android_x86_64 	<ul style="list-style-type: none"> • 6.0.1, 6.0.0
<ul style="list-style-type: none"> • android_armv7 • android_x86 	<ul style="list-style-type: none"> • 6.0.1, 6.0.0 • 5.13.2 5.13.1 5.13.0 • 5.12.9 5.12.8 5.12.7 5.12.6 5.12.5 5.12.4 5.12.3 5.12.2 5.12.1 5.12.0 • 5.11.3 5.11.2 5.11.1 5.11.0 • 5.10.1 5.10.0 • 5.9.9 5.9.8 5.9.7 5.9.6 5.9.5
<ul style="list-style-type: none"> • android 	<ul style="list-style-type: none"> • 5.15.2 5.15.1 5.15.0 • 5.14.2 5.14.1 5.14.0

5.2.2 ios

Qt SDK for ios is provided on mac.

Variant	Qt Versions
ios	<ul style="list-style-type: none"> • 6.0.1, 6.0.0 • 5.15.2, 5.15.1, 5.15.0 • 5.14.2, 5.14.1, 5.14.0 • 5.13.2, 5.13.1, 5.13.0 • 5.12.9, 5.12.8, 5.12.7, 5.12.6, 5.12.5 5.12.4, 5.12.3, 5.12.2, 5.12.1, 5.12.0 • 5.11.3, 5.11.2, 5.11.1, 5.11.0 • 5.10.1, 5.10.0 • 5.9.9, 5.9.8, 5.9.7, 5.9.6, 5.9.5

5.2.3 winrt

winrt SDK is provided for windows platform.

Variant	Qt Versions
win64_msvc2019_winrt_x64	<ul style="list-style-type: none">• 5.15.2 5.15.1 5.15.0• 5.14.2 5.14.1 5.14.0• 5.13.2 5.13.1 5.13.0• 5.12.9 5.12.8 5.12.7 5.12.6 5.12.5 5.12.4 5.12.3 5.12.2 5.12.1 5.12.0
win64_msvc2019_winrt_armv7	<ul style="list-style-type: none">• 5.15.2 5.15.1 5.15.0• 5.14.2 5.14.1 5.14.0• 5.13.2 5.13.1 5.13.0• 5.12.9 5.12.8 5.12.7 5.12.6 5.12.5 5.12.4 5.12.3 5.12.2 5.12.1 5.12.0
win64_msvc2019_winrt_x86	5.15.2 5.15.1 5.15.0 5.14.2 5.14.1 5.14.0 5.13.2 5.13.1 5.13.0 5.12.9 5.12.8 5.12.7 5.12.6 5.12.5 5.12.4 5.12.3 5.12.2 5.12.1 5.12.0
win64_msvc2017_winrt_armv7	5.14.2 5.14.1 5.14.0 5.13.2 5.13.1 5.13.0 5.12.9 5.12.8 5.12.7 5.12.6 5.12.5 5.12.4 5.12.3 5.12.2 5.12.1 5.12.0
win64_msvc2017_winrt_x64	5.14.2 5.14.1 5.14.0 5.13.2 5.13.1 5.13.0 5.12.9 5.12.8 5.12.7 5.12.6 5.12.5 5.12.4 5.12.3 5.12.2 5.12.1 5.12.0
win64_msvc2017_winrt_x86	5.14.2 5.14.1 5.14.0 5.13.2 5.13.1 5.13.0 5.12.9 5.12.8 5.12.7 5.12.6 5.12.5 5.12.4 5.12.3 5.12.2 5.12.1 5.12.0
win64_msvc2015_winrt_armv7	5.15.2 5.15.1 5.15.0 5.14.2 5.14.1 5.14.0 5.13.2 5.13.1 5.13.0 5.12.9 5.12.8 5.12.7 5.12.6 5.12.5 5.12.4 5.12.3 5.12.2 5.12.1 5.12.0 5.11.2 5.11.1 5.11.0 5.10.1 5.10.0 5.9.9 5.9.8 5.9.7 5.9.6 5.9.5
win64_msvc2015_winrt_x64	5.14.2 5.14.1 5.14.0 5.13.2 5.13.1 5.13.0 5.12.9 5.12.8 5.12.7 5.12.6 5.12.5 5.12.4 5.12.3 5.12.2 5.12.1 5.12.0
win64_msvc2015_winrt_x86	5.11.2 5.11.1 5.11.0 5.10.1 5.10.0 5.9.9 5.9.8 5.9.7 5.9.6 5.9.5

CHAPTER 6

Configuration

`aqtinstall` can be configured through a configuration file. A default configuration is stored in `aqt/settings.ini` file.

You can specify custom configuration file through `AQT_CONFIG` environment variable or “-c” or “-config” command line option.

A file is like as follows:

6.1 Settings

An `[aqt]` section is a configuration for basic behavior.

concurrency: `concurrency` is a setting how many download concurrently starts. It should be a integer value.

connection_timeout: `connection_timeout` is a timeout in second for connection. It is passed to `requests` library.

response_timeout: `response_timeout` is a timeout in second how much time waiting for response. It is passed to `requests` library.

baseurl: `baseurl` is a URL of Qt download site. When you have your own Qt download site repository, you can set it here. It is as same as `--base` option.

7zcmd: It is a command name of 7-zip. When `aqtinstall` is installed **without** recommended library `py7zr`, it is used to extract archive instead of `py7zr` library. When `--external` option specified, a value is override with option's one.

A `[mirrors]` section is a configuration for mirror handling.

blacklist: It is a list of URL where is a problematic mirror site. Some mirror sites ignore a connection from IP addresses out of their preferred one. It will cause connection error or connection timeout. There are some known mirror sites in default. When you are happy with the default sites, you can override with your custom settings.

fallbacks: It is a list of URL where is a good for access. When mirror site cause an error, `aqt` use fallbacks when possible.

7.1 Installer module

7.2 Archives module

7.3 Updater module

7.4 Helper module

CHAPTER 8

aqtinstall changeLog

All notable changes to this project will be documented in this file.

8.1 Unreleased

v1.2.4 (17, Jul. 2021) =====

8.1.1 Fixed

- Fix crash when installing Qt6.1.2 on mac(#288,#320)

v1.2.3 (14, Jul. 2021) =====

8.1.2 Changed

- helper: set max_retries (#296)

8.1.3 Fixed

- Patching for winrt packages(#311)
- CI: Fix release note script
- CI: bundle jom.zip for test

8.2 v1.2.2 (1, Jul. 2021)

8.2.1 Added

- Create qtenv2.bat file on windows(#279)

8.2.2 Fixed

- Fix list subcommand to retrieve information from web(#280)
- Fix crash when installing Qt6.2.0 on mac(#288,#289)

8.3 v1.2.1 (22, Jun. 2021)

8.3.1 Fixed

- Fix crash when tool subcommand used.(#275,#276)

8.4 v1.2.0 (21, Jun. 2021)

8.4.1 Added

- Add -c/--config option to specify custom settings.ini(#246)
- Document for settings.ini configuration parameters(#246)
- Patching libtool file(.la) on mac(#267)
- CI: Add more blacklist mirrors
- Add -kde option for src subommand(#274)

8.4.2 Changed

- Use spawn multiprocessing on Linux platform.(#273)
- Check MD5 checksum when download(#238)
- Config settings.ini parser and URL list format(#246)
- Refactoring network connection code, consolidated to helper.py(#244)
- Refactoring exceptions, introduce exceptions.py(#244)
- Update known Qt versions combinations.(#243)
- CI: changes azure pipelines test scripts(#250)

8.4.3 Fixed

- Fix logging during subprocess installation on macOS, and Windows(#273)
- Fix patching qmake(#259)
- Prettify help message format(#237)
- Update patching pkgconfig/lib on mac(#267)
- CI: fix check workflow(#248)
- CI: fix error on Azure/Windows(connection error)(#246)

8.5 v1.1.6 (2, May. 2021)

8.5.1 Fixed

- doc subcommand failed in argument parse(#234)

8.6 v1.1.5 (8, Apr. 2021)

8.6.1 Added

- README: describe advanced installation method.

8.6.2 Changed

- Change tox.ini: docs test output folder
- Remove changelog from pypi page

8.6.3 Fixed

- Drop dependency for wheel

8.7 v1.1.4 (2, Apr. 2021)

8.7.1 Changed

- Code reformatting by black and check by black.
- Check linting by github actions.

8.7.2 Fixed

- Fix document error on README(#228, #226).

8.8 v1.1.3 (26, Feb. 2021)

8.8.1 Fixed

- Key error on 3.6.13, 3.7.10, 3.8.8, and 3.9.2(#221)

8.9 v1.1.2 (20, Feb. 2021)

8.9.1 Fixed

- Fix leaked multiprocessing resource(#220)
- Catch both read timeout and connection timeout.

8.10 v1.1.1 (13, Feb. 2021)

8.10.1 Fixed

- Catch timeout error and fallback to mirror (#215,#217)

8.11 v1.1.0 (12, Feb. 2021)

8.11.1 Added

- Patching android installation for Qt6 - patch target_qt.conf

8.11.2 Changed

- CI test with Qt6
- Docs: update available combinations

8.11.3 Fixed

- Skip QtCore patching for 5.14.0 and later(Fix regression)(#211)

8.12 v1.0.0 (4, Feb. 2021)

8.12.1 Added

- Add `--noarchives` option to allow user to add modules to existed installation(#174,#204)
- No patching when it does not install qtbase package by `--noarchives` and `--archives` option.(#204)
- Azure: test with jom build on windows.

- Patch pkgconfig configurations(#199)
- Patch libQt5Core and libQt6Core for linux(#201)

8.12.2 Changed

- Update document to show available Qt versions
- Update README to add more references.
- Suppress debug log and exist silently when specified package not found.

8.12.3 Fixed

- Catch exception on qmake -query execution(#201)
- Fix Qt6/Android installation handling.(#193, #200)

This is contribution guide for aqtnstall project. You are welcome to send a Pull-Request, reporting bugs and ask questions.

9.1 Resources

- Project owner: Hiroshi Miura
- Bug Tracker: Github issue [Tracker](#)
- Status: Beta
- Activity: moderate

9.2 Bug triage

Every report to github issue tracker should be in triage. whether it is bug, question or invalid.

9.3 Send patch

Here is small amount rule when you want to send patch the project;

1. every proposal for modification should send as 'Pull Request'
1. each pull request can consist of multiple commits.
1. you are encourage to split modifications to individual commits that are logical subpart.

9.4 CI tests

The project configured to use Azure Pipelines, Github actions and Coveralls for regression test. You can see test results on badge and see details in a web page linked from badge.

CHAPTER 10

Authors

Aqtinstall is written and maintained by Hiroshi Miura <miurahr@linux.com>

Original qli-installer is written by Linus Jahn

Contributors, listed alphabetically, are:

- Andrei Yankovich (tools ifw installation)
- Aurélien Gâteau (patching to qmake)
- Benjamin O (Github Actions and more)
- David Dalcino (Improve tests and fix patching to qmake)
- Felix Barz (Android, Explicit extra module installation)
- Gamso (improve parsing of update.xml)
- Kyle Altendorf (7z binary path search)
- Martin Delille (Document)
- Mizux Seihax (Qt versions)
- Nelson Chen (CI tests)
- @pylipp (Document)
- Sztergbaum Roman
- Thomas Grainger (CLI entry point)
- @tsteven4 (fix patching to qmake)
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