

---

# **aqtinstall Documentation**

***Release 0.5b2***

**Hiroshi Miura**

**Jan 21, 2021**



---

## Contents

---

<b>1</b>	<b>Command Line Options</b>	<b>3</b>
<b>2</b>	<b>Internals</b>	<b>5</b>
2.1	Archives module . . . . .	5
2.2	Installer module . . . . .	5
2.3	Cli module . . . . .	5
2.4	Helper module . . . . .	5
2.5	QtPatch module . . . . .	5
<b>3</b>	<b>aqtinstall changeLog</b>	<b>7</b>
3.1	Current changes . . . . .	7
<b>4</b>	<b>Contribution guide</b>	<b>9</b>
4.1	Resources . . . . .	9
4.2	Bug triage . . . . .	9
4.3	Send patch . . . . .	9
4.4	CI tests . . . . .	10
<b>5</b>	<b>Authors</b>	<b>11</b>
<b>6</b>	<b>Indices and tables</b>	<b>13</b>
	<b>Index</b>	<b>15</b>



Contents:



---

## 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.

### **list**

list available versions (not implemented yet)

### **help**

show generic help

**install** <Qt version> <target OS> <target variant> <target environment>

install Qt library specified version and target.

### **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 or android

### **target environment**

- gcc\_64 for linux desktop
- clang\_64 for mac desktop
- win64\_msvc2019\_64, win64\_msvc2017\_64, win64\_msvc2015\_64, in32\_msvc2015, win32\_mingw53 for windows desktop
- android\_x86, android\_armv7 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 archvies.

**src** <Qt version> <target OS> <target variant>  
install Qt sources specified version and target.

**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.

**tools** <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/>



#### **2.1 Archives module**

#### **2.2 Installer module**

#### **2.3 Cli module**

#### **2.4 Helper module**

#### **2.5 QtPatch module**



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

### 3.1 Current changes

#### 3.1.1 Unreleased

Added

Changed

Fixed

Deprecated

Removed

Security

#### 3.1.2 v0.11.1 (21, Jan. 2021)

Added

- Add `--timeout` option to specify connection timeout (default 5.0 sec) (#197)

#### 3.1.3 v0.11.0 (21, Jan. 2021)

Added

- Automatically fallback to mirror site when main <https://download.qt.io> down. (#194, #196)

### **3.1.4 v0.10.1 (11, Dec. 2020)**

#### **Added**

- Add LTS vresions as known version.(#188)

#### **Changed**

- Tool: Version comparison by startswith. When specified 4.0 but download server hold 4.0.1, it catch 4.0.1.(related #187)
- README: explicitly show python version requirements.

### **3.1.5 v0.10.0 (25, Nov. 2020)**

#### **Added**

- Add v5.12.2, v6.0.0 as known versions.(#176, #177)
- Support `--archives` option on src installation.

#### **Changed**

- Use multiprocessing.Pool instead of concurrent.futures(#178)
- Refactoring whole modules. (#179)
- Split old changelogs to CHNAGELOG\_prerelease.rst
- Drop an upper limitaion (<0.11) for py7zr.(#183)

#### **Fixed**

- When we used “-m all” to download doc or examples, Qt sources are also downloaded(@Gams0)(#182)

### **3.1.6 v0.9.8 (4, Nov. 2020)**

#### **Added**

- Added new combinations for tools\_ifw

#### **Fixed**

- When we start an installation, all packages are downloaded whatever the specified platform.(#159)

# CHAPTER 4

---

## Contribution guide

---

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

### 4.1 Resources

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

### 4.2 Bug triage

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

### 4.3 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.

## **4.4 CI tests**

The project configured to use Azure Pipelines, Travis-CI and CoverAlls for regression test. You can see test results on badge and see details in a web page linked from badge.

## CHAPTER 5

---

### Authors

---

Aqtinstall is written and maintained by Hiroshi Miura <[miurahr@linux.com](mailto:miurahr@linux.com)>

Original qli-installer is written by Linus Jahn

Contributors, listed alphabetically, are:

- Gamso (improve parsing of update.xml)
- Kyle Altendorf (7z binary path search)
- Martin Delille
- Nelson Chen (CI tests)
- Skycoder42 (Explicit extra module installation)
- Thomas Grainger





## CHAPTER 6

---

### Indices and tables

---

- `genindex`
- `modindex`
- `search`



## Symbols

-archives <list of archives>  
    aqt command line option,4  
-base, -b <base url>  
    aqt command line option,4  
-help, -h  
    aqt command line option,3  
-modules, -m <list of modules>  
    aqt command line option,4  
-outputdir, -O <Output Directory>  
    aqt command line option,3  
-version, -v  
    aqt command line option,3

## A

aqt command line option  
    -archives <list of archives>,4  
    -base, -b <base url>,4  
    -help, -h,3  
    -modules, -m <list of modules>,4  
    -outputdir, -O <Output Directory>,3  
    -version, -v,3  
doc <Qt version> <target OS>  
    <target variant>,4  
examples <Qt version> <target OS>  
    <target variant>,4  
help,3  
install <Qt version> <target  
    OS> <target variant> <target  
    environment>,3  
list,3  
src <Qt version> <target OS>  
    <target variant>,4  
tools <target OS> <target tool  
    name> <target tool version>  
    <tool variant name>,4

## D

doc <Qt version> <target OS> <target  
    variant>

    aqt command line option,4

## E

examples <Qt version> <target OS>  
    <target variant>  
    aqt command line option,4

## H

help  
    aqt command line option,3

## I

install <Qt version> <target OS>  
    <target variant> <target  
    environment>  
    aqt command line option,3

## L

list  
    aqt command line option,3

## S

src <Qt version> <target OS> <target  
    variant>  
    aqt command line option,4

## T

tools <target OS> <target tool name>  
    <target tool version> <tool  
    variant name>  
    aqt command line option,4