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# **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

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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.

### **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,winrt,android,ios} target sdk

### **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.

**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.

**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/>

## 3.1 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 5.15.0 windows desktop -m qtcharts qtnetworkauth
C:\> aqt doc 5.15.0 windows desktop -m qtcharts qtnetworkauth
C:\> aqt src 5.15.0 windows desktop
```

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 vcredis:

```
C:\> aqt tool windows tools_vcrist 2019-02-13-1 qt.tools.vcrist_msvc2019_x64
C:\> .\Qt\Tools\vcrist\vcrist_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.

### 4.1 Desktop

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

#### 4.1.1 Linux

Variant	Qt Versions
gcc_64	<ul style="list-style-type: none"> <li>• 6.0.1, 6.0.0, 5.13.0</li> <li>• 5.15.2, 5.15.1, 5.15.0</li> <li>• 5.14.2, 5.14.1, 5.14.0</li> <li>• 5.13.2, 5.13.1</li> <li>• 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</li> <li>• 5.11.3, 5.11.2, 5.11.1, 5.11.0</li> <li>• 5.10.1, 5.10.0</li> <li>• 5.9.9, 5.9.8, 5.9.7, 5.9.6, 5.9.5</li> </ul>
wasm_32	<ul style="list-style-type: none"> <li>• 5.15.2, 5.15.1, 5.15.0</li> <li>• 5.14.2, 5.14.1, 5.14.0</li> <li>• 5.13.2, 5.13.1</li> </ul>

## 4.1.2 mac

Variant	Qt Versions
clang_64	<ul style="list-style-type: none"><li>• 6.0.1, 6.0.0, 5.13.0</li><li>• 5.15.2, 5.15.1, 5.15.0</li><li>• 5.14.2, 5.14.1, 5.14.0</li><li>• 5.13.2, 5.13.1</li><li>• 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</li><li>• 5.11.3, 5.11.2, 5.11.1, 5.11.0</li><li>• 5.10.1, 5.10.0</li><li>• 5.9.9, 5.9.8, 5.9.7, 5.9.6, 5.9.5</li></ul>
wasm_32	<ul style="list-style-type: none"><li>• 5.15.2, 5.15.1, 5.15.0</li><li>• 5.14.2, 5.14.1, 5.14.0</li><li>• 5.13.2, 5.13.1</li></ul>





### 4.1.3 windows

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

## 4.2 Mobile platforms

### 4.2.1 android

android SDK is provided for linux, mac and windows.

Variant	Qt Versions
<ul style="list-style-type: none"> <li>• android_arm64_v8a</li> <li>• android_x86_64</li> </ul>	<ul style="list-style-type: none"> <li>• 6.0.1, 6.0.0</li> </ul>
<ul style="list-style-type: none"> <li>• android_armv7</li> <li>• android_x86</li> </ul>	<ul style="list-style-type: none"> <li>• 6.0.1, 6.0.0</li> <li>• 5.13.2 5.13.1 5.13.0</li> <li>• 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</li> <li>• 5.11.3 5.11.2 5.11.1 5.11.0</li> <li>• 5.10.1 5.10.0</li> <li>• 5.9.9 5.9.8 5.9.7 5.9.6 5.9.5</li> </ul>
<ul style="list-style-type: none"> <li>• android</li> </ul>	<ul style="list-style-type: none"> <li>• 5.15.2 5.15.1 5.15.0</li> <li>• 5.14.2 5.14.1 5.14.0</li> </ul>

### 4.2.2 ios

Qt SDK for ios is provided on mac.

Variant	Qt Versions
ios	<ul style="list-style-type: none"> <li>• 6.0.1, 6.0.0</li> <li>• 5.15.2, 5.15.1, 5.15.0</li> <li>• 5.14.2, 5.14.1, 5.14.0</li> <li>• 5.13.2, 5.13.1, 5.13.0</li> <li>• 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</li> <li>• 5.11.3, 5.11.2, 5.11.1, 5.11.0</li> <li>• 5.10.1, 5.10.0</li> <li>• 5.9.9, 5.9.8, 5.9.7, 5.9.6, 5.9.5</li> </ul>

### 4.2.3 winrt

winrt SDK is provided for windows platform.

Variant	Qt Versions
win64_msvc2019_winrt_x64	<ul style="list-style-type: none"><li>• 5.15.2 5.15.1 5.15.0</li><li>• 5.14.2 5.14.1 5.14.0</li><li>• 5.13.2 5.13.1 5.13.0</li><li>• 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</li></ul>
win64_msvc2019_winrt_armv7	<ul style="list-style-type: none"><li>• 5.15.2 5.15.1 5.15.0</li><li>• 5.14.2 5.14.1 5.14.0</li><li>• 5.13.2 5.13.1 5.13.0</li><li>• 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</li></ul>
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

#### **5.1 Installer module**

#### **5.2 Archives module**

#### **5.3 Updater module**

#### **5.4 Helper module**



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

## 6.1 Unreleased

### 6.1.1 Added

### 6.1.2 Changed

### 6.1.3 Fixed

### 6.1.4 Deprecated

### 6.1.5 Removed

### 6.1.6 Security

## 6.2 'v1.1.5' (8, Apr. 2021)

### 6.2.1 Added

- README: describe advanced installation method.

### 6.2.2 Changed

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

### 6.2.3 Fixed

- Drop dependency for wheel

## 6.3 v1.1.4 (2, Apr. 2021)

### 6.3.1 Changed

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

### 6.3.2 Fixed

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

## 6.4 v1.1.3 (26, Feb. 2021)

### 6.4.1 Fixed

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

## 6.5 v1.1.2 (20, Feb. 2021)

### 6.5.1 Fixed

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

## 6.6 v1.1.1 (13, Feb. 2021)

### 6.6.1 Fixed

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

## 6.7 v1.1.0 (12, Feb. 2021)

### 6.7.1 Added

- Patching android installation for Qt6 - patch target\_qt.conf



### 6.7.2 Changed

- CI test with Qt6
- Docs: update available combinations

### 6.7.3 Fixed

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

## 6.8 v1.0.0 (4, Feb. 2021)

### 6.8.1 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)

### 6.8.2 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.

### 6.8.3 Fixed

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



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

### 7.1 Resources

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

### 7.2 Bug triage

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

### 7.3 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.

## **7.4 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 8

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### Authors

---

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

Original qli-installer is written by Linus Jahn

Utilize for Github Actions recipe and many feedback by Benjamin O

Contributors, listed alphabetically, are:

- Andrei Yankovich (tools ifw installation)
- Aurélien Gâteau (patching to qmake, #100)
- 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)
- Felix Barz (Android, Explicit extra module installation)
- Sztergbaum Roman
- Thomas Grainger (CLI entry point)
- Vadim Peretokin (Version database)
- ypnos (Document)

and many other participants and contributors.



## CHAPTER 9

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### Indices and tables

---

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





## Symbols

-archives <list of archives>  
    aqt command line option,8  
-base, -b <base url>  
    aqt command line option,8  
-help, -h  
    aqt command line option,7  
-modules, -m <list of modules>  
    aqt command line option,8  
-noarchives  
    aqt command line option,8  
-outputdir, -O <Output Directory>  
    aqt command line option,7  
-version, -v  
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## A

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