xwidgets

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INSTALLATION

The C++ backend for bqplot.

`xplot` is a C++ implementation of backend for the bqplot 2-D plotting library.

`xplot` and its dependencies require a modern C++ compiler supporting C++14. The following C++ compilers are supported:

- On Windows platforms, Visual C++ 2015 Update 2, or more recent
- On Unix platforms, gcc 4.9 or a recent version of Clang

CHAPTER

ONE

LICENSING

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1.1 Installation

xplot is a header-only library but depends on some traditional libraries that need to be installed. On Linux, installation of the dependencies can be done through the package manager, anaconda or manual compilation.

1.1.1 Using the conda package

A package for xplot is available on the conda package manager. The package will also pull all the dependencies.

```
conda install -c QuantStack xplot
```

1.1.2 From source with cmake

You can also install `xplot` from source with cmake. On Unix platforms, from the source directory: However, you need to make sure to have the required libraries available on your machine.

```
mkdir build
cd build
cmake -DCMAKE_INSTALL_PREFIX=/path/to/prefix ..
make install
```

On Windows platforms, from the source directory:

```
mkdir build
cd build
cmake -G "NMake Makefiles" -DCMAKE_INSTALL_PREFIX=/path/to/prefix ..
nmake
nmake install
```

1.2 Releasing xplot

1.2.1 Releasing a new version

From the master branch of xplot

- Make sure that you are in sync with the master branch of the upstream remote.
- In file `xplot_config.hpp`, set the macros for `XPLOT_VERSION_MAJOR`, `XPLOT_VERSION_MINOR` and `XPLOT_VERSION_PATCH` to the desired values.
- Update the readme file w.r.t. dependencies on xplot
- Stage the changes (`git add`), commit the changes (`git commit`) and add a tag of the form `Major.minor.patch`. It is important to not add any other content to the tag name.
- Push the new commit and tag to the main repository. (`git push`, and `git push --tags`)