moxy Documentation

Release 0.7.3

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Contents

moxy: EPICS GUI support for a set of motor positions

> **see** https://github.com/prjemian/moxy/

2014-05-29, PRJ

This project is being rewritten at this time. The entire infrastructure is being redesigned so do not expect anything here to remain constant.

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moxy (an EPICS GUI tool) provides support for a set of positioners (EPICS motor records or similar) by allowing users to define a table of known positions and providing a one-button click to drive the set of positioners to a specific setting in the table. Also can record current position into a setting.

Several sets of positioners can be configured. (Each set is separate.) In fact, the positioners do not have to be motors, but can be any type of EPICS PV that will accept a numeric value.

moxy requires these Python packages:

package	version	website
PyQt4	>= 4	http://http://www.riverbankcomputing.com/software/pyqt/intro ([1])
PyEpics	>= 3.2	http://cars9.uchicago.edu/software/python/pyepics3/
bcdaqwidgets	>= 2015.0413.0	http://subversion.xray.aps.anl.gov/admin_bcdaext/BcdaQWidgets

And, this tool is useless without: * *EPICS* (http://www.aps.anl.gov/epics) * EPICS *motor* record (http://www.aps.anl.gov/bcda/synApps/motor) * EPICS IOC server running one or more *motor* instances

> (or a set of PVs that emulate the *motor* interface).

In the Graphical User Interface (GUI), tooltips are provided for most items. Moving and pausing the mouse over a widget (GUI component such as a button or a label) will cause a terse description of that widget to be displayed. Moving the mouse away will cause that tooltip to disappear.

For more help, explanations are provided in the documentation.

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[1] this project developed with PyQt4 >= 4.11.3

Contents

Moxy Package: Source Code Documentation

Source code documentation for *Moxy*.

main Module

form_support Module

about Module

Installation

Note: tba

Terse Instructions:

```
pip install moxy
```

CHANGES

2015-04-13 v0.7.3 refactor PySide to PyQt4

2015-01-06 v0.7.2 - add URL button to About box

2014-12-08 v0.7.1 - moved to GitHub

2014-05-29 v0.7 - fresh restart of project with PySide and .ui files

2011-12-20 v0.6 - restart of project, comparing wxPython and PySide

2011-09-11 v0.5 - rebrand project as *moxy*

2009 project *wxmtxy* to support USAXS instrument

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Moxy

Advanced Photon Source, Argonne National Laboratory


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