

1st Code Camp July 4, 2016

THIS TALK

- Introduction
- Status of silx
- Goals of the code camp
 - For users
 - For core developers
- Hands on!



- Read SPEC files using an API similar to the h5py one
- Convert SPEC files to ESRF HDF5 NeXus implementation
- Dump dictionaries to files in several formats

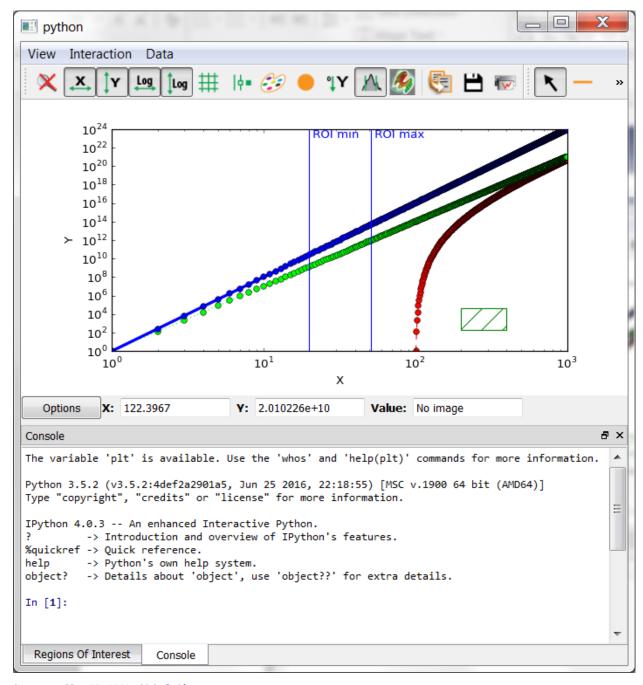


- Weighted n-dimensional histograms
- Fast histogramming using look up tables
- Non-linear least squares fits with constraints



- Visualize 1D data
- Apply ROIs on them
- Control the plot via an interactive console



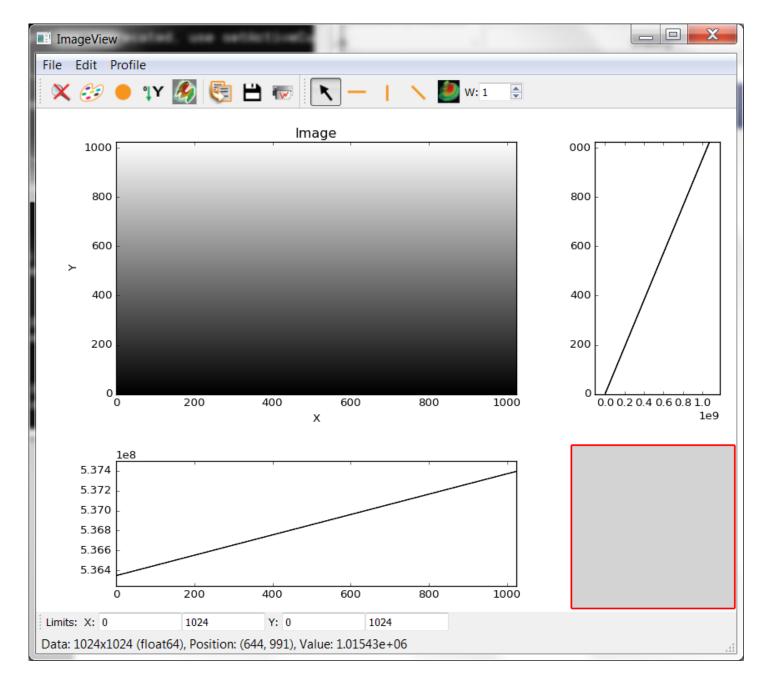






- Visualize 2D data
- Apply Profiles and Masks on them
- Apply different colormaps
- Plot an image with associated histograms









ROLE OF NON-CORE DEVELOPERS

- Identify something you are interested on
- Try to achieve it
- Wow! I can do what I want, what next?
 - Start again
 - Make suggestions
 - Contribute with a demo/recipe
- I cannot do it
 - Ask help



ROLE OF CORE DEVELOPERS

- Help non-core developers
- Create issues
 - Bugs
 - Documentation
 - Desired features
- Fix issues
 - Bugs
 - Documentation
 - Unlikely for new features
- Review pull requests





- Try to start with a single entry point www.silx.org
 - You should be able to install 0.1.0 version
- For this code camp we'll use 0.2.0, you can either:
 - clone the repository (and use your compilation chain)
 - install a nightly built package (debian)
 - use a pre-built binary wheel:
 - http://www.silx.org/pub/wheelhouse/



- Why I cannot dock the mask widget on a side?
- Can I change the color of the plot surroundings?
- Limit the number of labels on ImageView right histogram