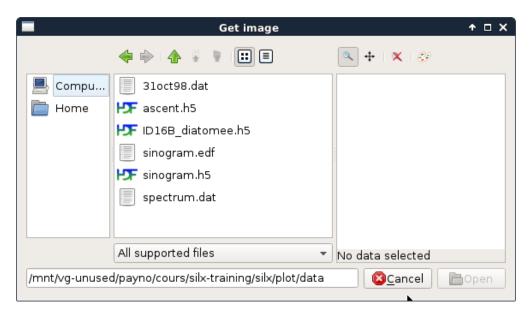
imgCorrectionEx

March 19, 2018

In []: %gui qt

Same exercise, (data, normalization function) as io but with interaction

1 Create two functions



ImageDialog

- getFlatfield: to select the flatfield
- getDark: to select the dark

To do this use the ImageFileDialog class

- see doc: http://www.silx.org/doc/silx/latest/modules/gui/dialog/imagefiledialog.html
- related example: examples/fileDialog.py

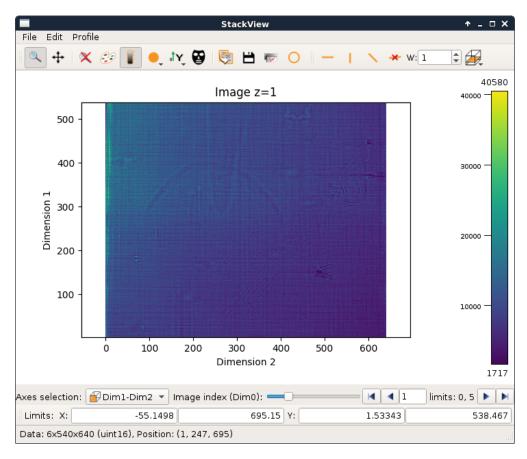
```
In [ ]: from silx.gui.dialog.ImageFileDialog import ImageFileDialog
```

2 Create a function to correct an image from flatfield and dark

take as input an image, dark and flatfield. Return the normalized image

3 Select an image and display it raw and normalized

4 Add an action to apply the correction on a stack of image



ImageDialog

Here is the sample code to plot the stack of image

```
In []: from silx.gui.plot.StackView import StackViewMainWindow
    import h5py
    import numpy

dataFile = h5py.File('data/ID16B_diatomee.h5')

mystack = dataFile['scan1']['instrument']['data'][...]

sv = StackViewMainWindow()
    sv.setStack(mystack)
    sv.show()
```

Here is a function to apply the corection on the stack

To define an action

- heritate from PlotAction
- redefine the triggered function
- See http://www.silx.org/doc/silx/dev/modules/gui/plot/actions/examples.html tutorial
- you can also use the PlotAction tutorial.ipynb

In []: