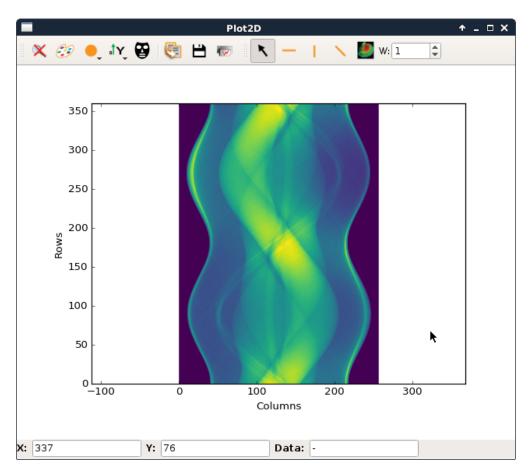
Plot2DExercise

March 13, 2017

1 Simple plot of a 2D image



plot2D

- http://www.silx.org/doc/silx/dev/modules/gui/plot/plotwindow.html
- http://www.silx.org/doc/silx/dev/modules/gui/plot/getting_started.html

1.1 load data from data/lena.hdf5

```
import fabio
data=fabio.open('data/sinogram.edf').data
```

1.2 Plot the image

- using Plot2D class
 - addImage

```
In []: ...
```

1.3 Change the color map

- using setDefaultColormap
 - a colormap id defined by a dictionnary:
 - colormap = {'name': 'inferno', 'normalization': 'linear', 'autoscale': True, 'vmin': 0.0,
 'vmax': 1.0}

```
In []: ...
```

1.4 origin keyword

• define the center of the image to (100, 100) during the call of addImage(..., origin=(...), ...)

```
In [ ]: ...
```

1.5 scale keyword

• scale the image of a factor (0.1, 0.1) during the call of addImage

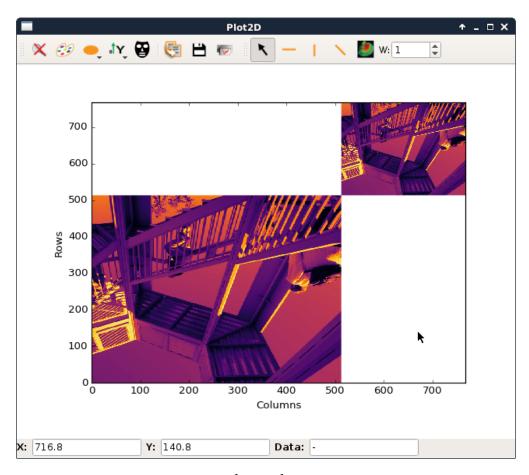
```
In [ ]: ...
```

2 multiple image

create the lenas plot (data is in data/ascent.h5) using only:

- data
- Plot2D functions

2.1 load data



lenas plot

2.2 plot data

In []: ...

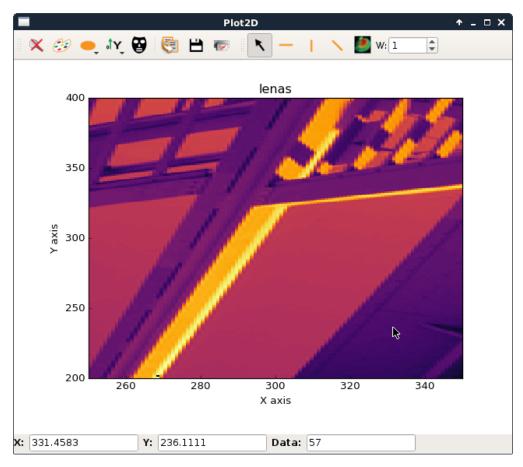
2.3 Control axes

- change title, X and Y labels
 - setGraphTitle
 - setGraphXLabel
 - setGraphYLabel

In []: ...

2.4 x and y limits

get the following display: - using setGraphXLimits - using setGraphYLimits

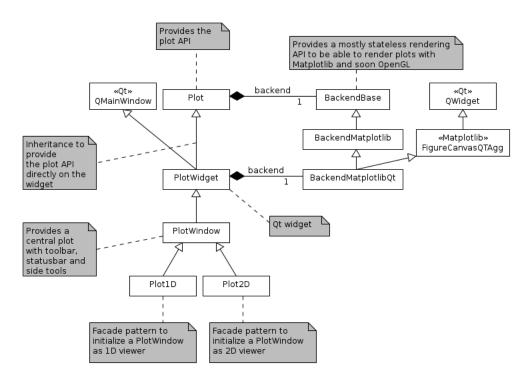


lena

.

In []: ...

Plot class diagram



plot class diagram

In []: