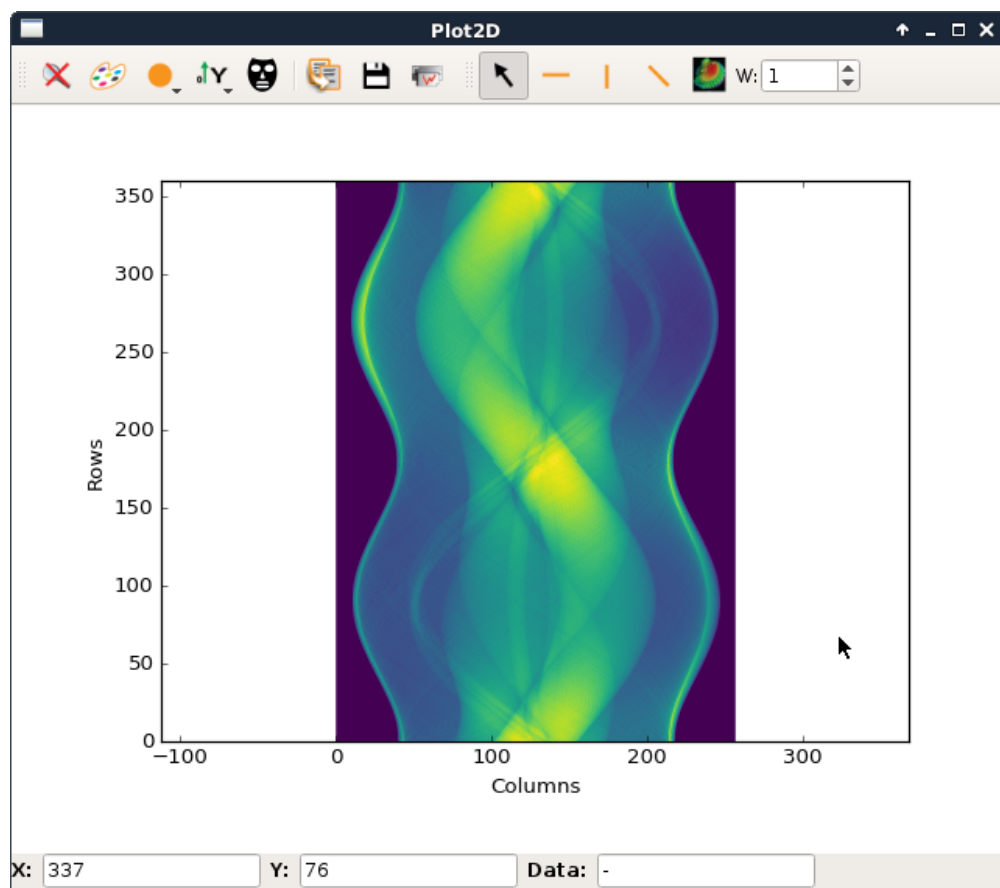


Plot2DExercise

November 11, 2016

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

```
In [ ]: import numpy
        from silx.gui.plot import Plot2D
```

```

from fabio import edfimage
edfReader=edfimage.edfimage().read('data/sinogram.edf')
data=edfReader.getData()

```

1.2 Plot the image

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

1.3 Change the color map

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

1.4 origin keyword

- define the center of the image to (100, 100)

```
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/lena.hdf5) using only :

- data
- Plot2D functions

2.1 load data

```

In [ ]: # input using .hdf5
import h5py
dataPath='data/lena.hdf5'
f=h5py.File(dataPath)
data=data = numpy.array(f['lena'], dtype='float64')

```

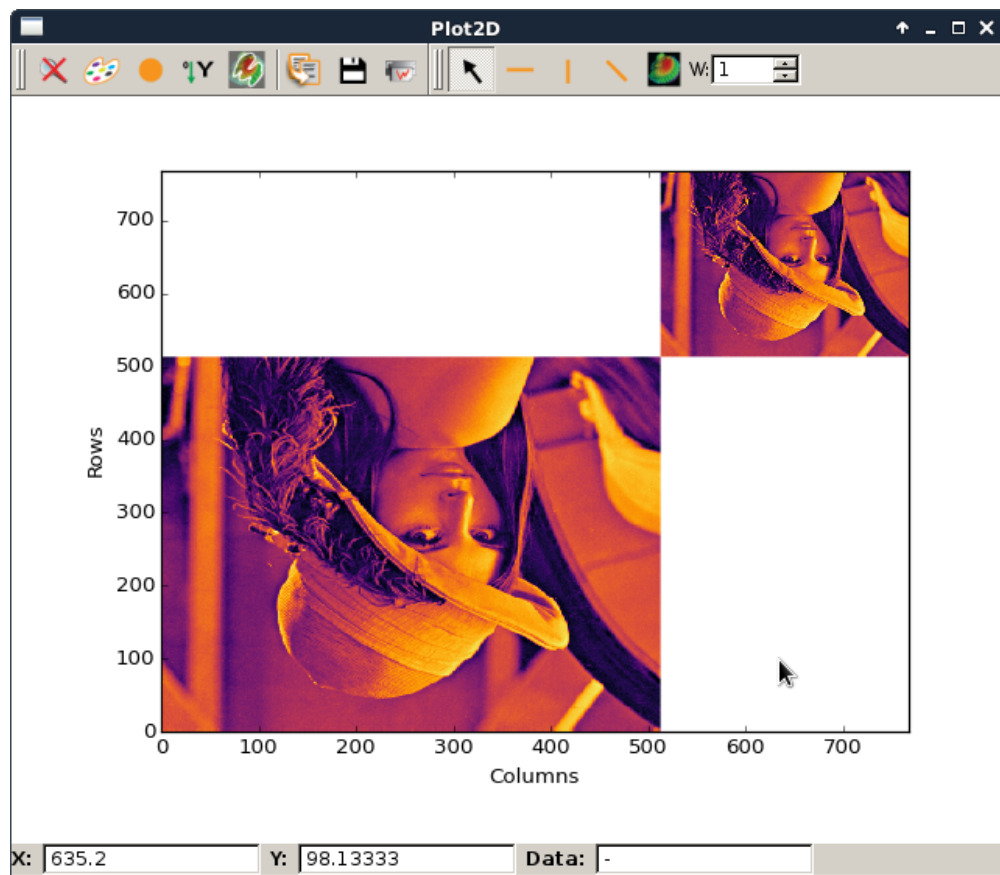
2.2 plot data

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

2.3 Control axes

- change title, X and Y labels

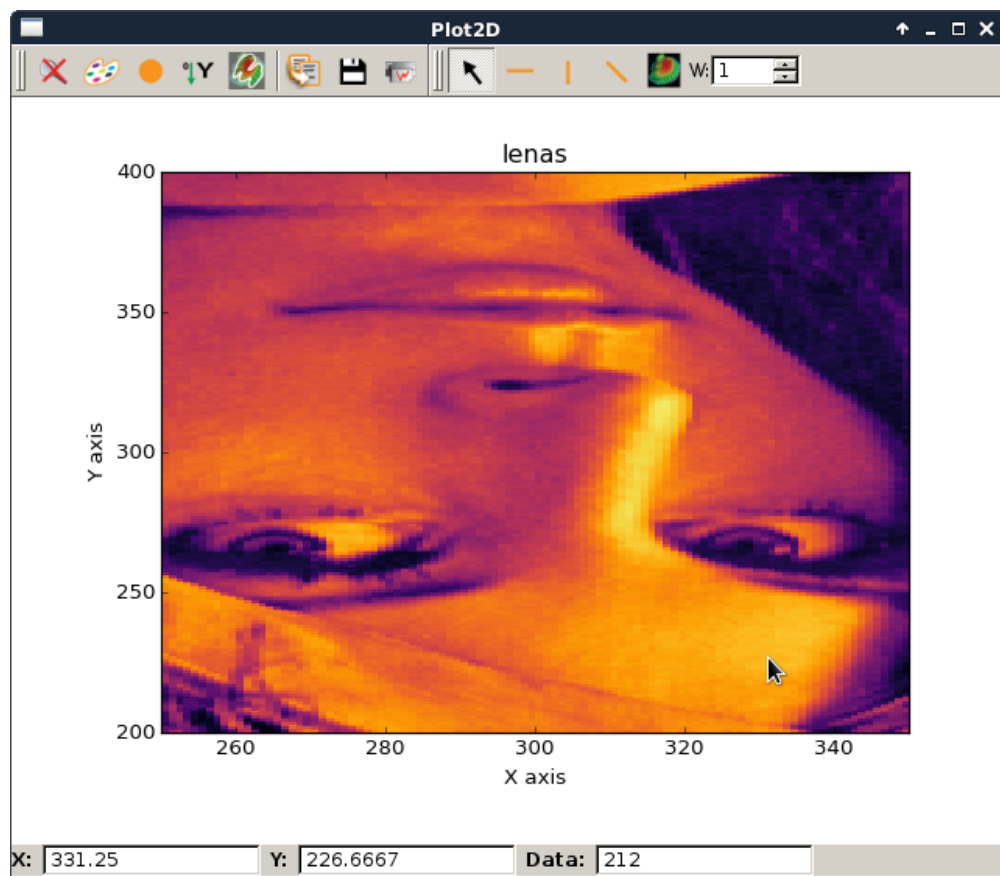
```
In [ ]: ...
```



lenas plot

2.4 x and y limits

get the following display:

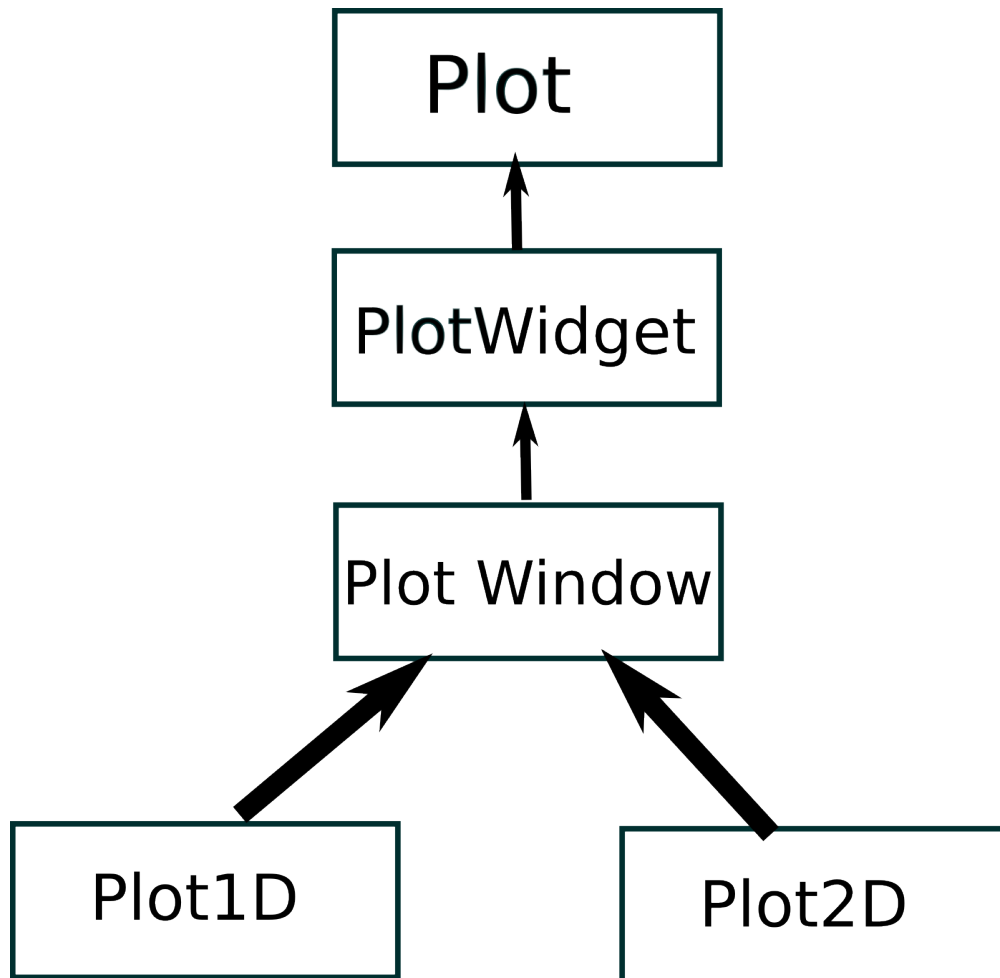


lena

In []: ...

Plot class diagram

In []:



plot class diagram