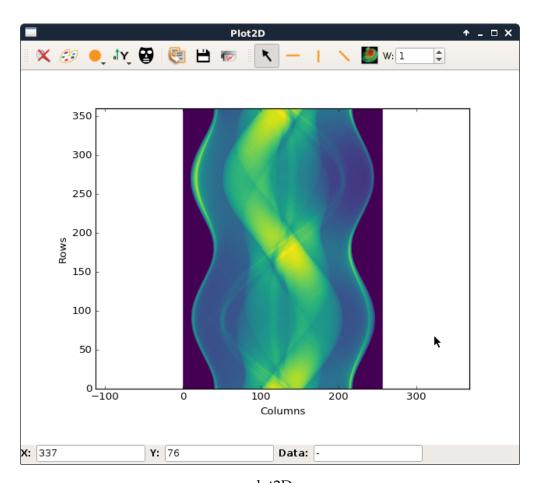
# Plot2DExercise

November 14, 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

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

#### 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

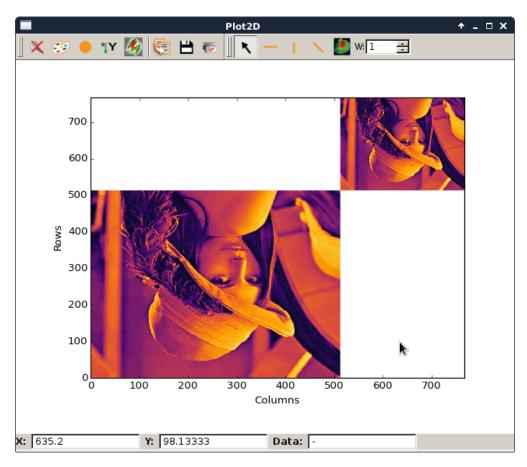
```
In [ ]: ...
```

## 2 multiple image

create the lenas plot (data is in data/lena.hdf5) using only:

- data
- Plot2D functions

#### 2.1 load data



lenas plot

## 2.2 plot data

In [ ]: ...

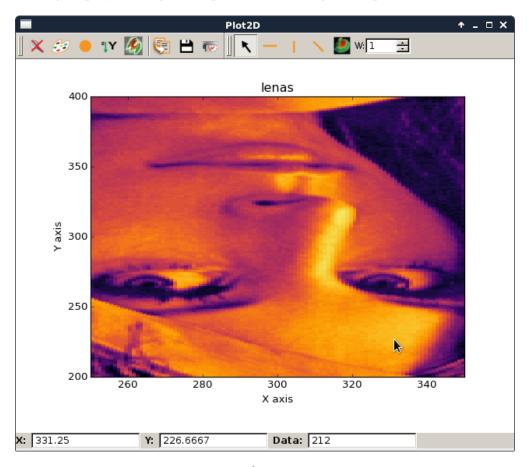
#### 2.3 Control axes

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

In [ ]: ...

### 2.4 x and y limits

get the following display: - using setGraphXLimits - using setGraphYLimits

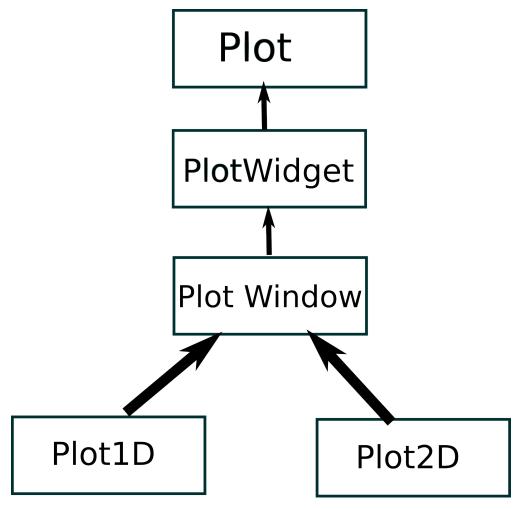


lena

.

In [ ]: ...

Plot class diagram



plot class diagram

In [ ]: