

# PAn - Projection Analyzer

<http://code.google.com/p/projection-analyzer/>

## Plot Projection 2D Instructions

### Description:

The Python script 'pan\_plotproj2d.py' is part of Projection Analyzer (PAn) and it is used for plotting 2d projections.

### Pre-requisites:

- PAn Libs
- Python 2.6 or later <<http://www.python.org/>>
- NumPy <<http://numpy.scipy.org/>>
- SciPy <<http://www.scipy.org/>>
- Matplotlib <<http://matplotlib.sourceforge.net/>>
- PyLab <<http://www.scipy.org/PyLab>>

### Usage syntax:

```
pan_plotproj2d -infile <projection_file> [-saveim <yes|no>] [-legend <yes|no>]  
[-letext <legend_text>]
```

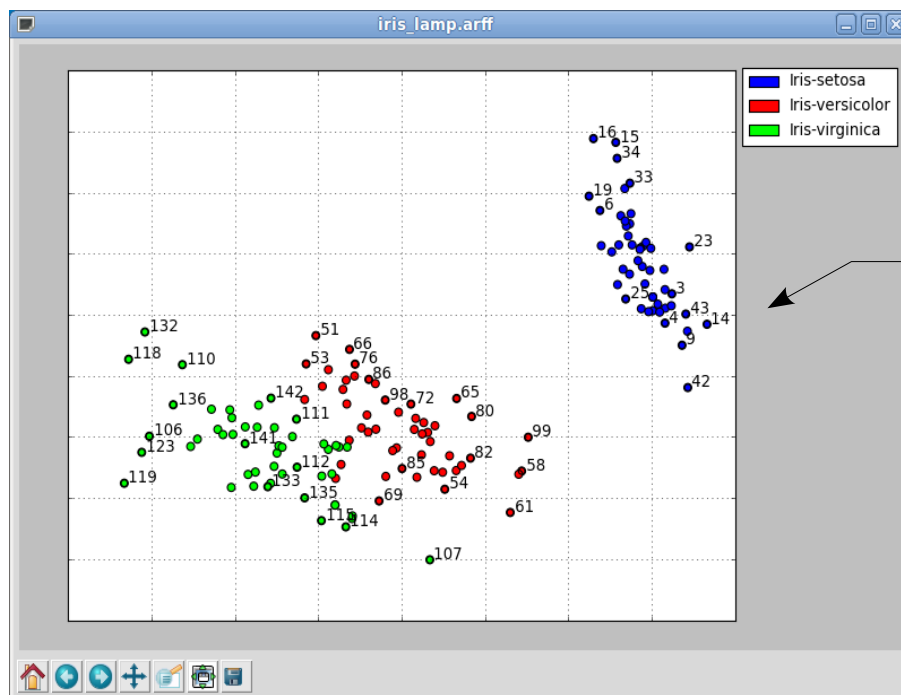
### Parameters explanation:

Parameter	Description	Required	Default Value
-infile	input file name	obligatory	-
-saveim	save image to disk (same path of the input file)	optional	no
-legend	generate legend	optional	no
-letext	legend text as comma separated value <i>Obs: the maximum number of legend elements must be less or equal to number of rows of the colormap file.</i>	optional	class1,class2,...,classM

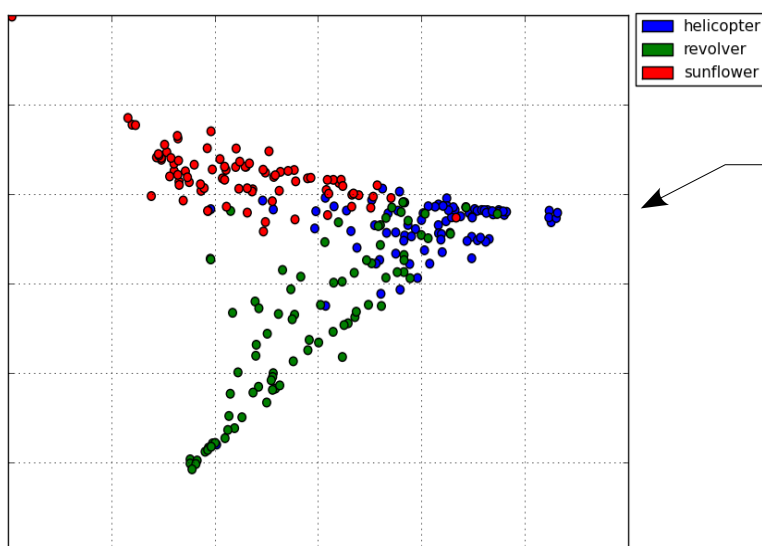
### Examples:

```
./pan_plotproj2d.py -infile ../../data/iris_lamp.arff -saveim no -legend yes  
./pan_plotproj2d.py -infile ../../data/ssurface.prj -saveim yes -legend no  
./pan_plotproj2d.py -infile ../../data/caltech-3classes-normcols.arff -saveim  
yes -legend yes -letext helicopter,revolver,sunflower
```

## Some examples of projection plots:



Dataset: iris  
Dim: 150x4  
Technique: LAMP



Dataset: caltech-3classes-normcols  
Dim: 255x25  
Technique: CSMP

Dataset: mammals20k  
Dim: 20000x72  
Technique: LAMP

