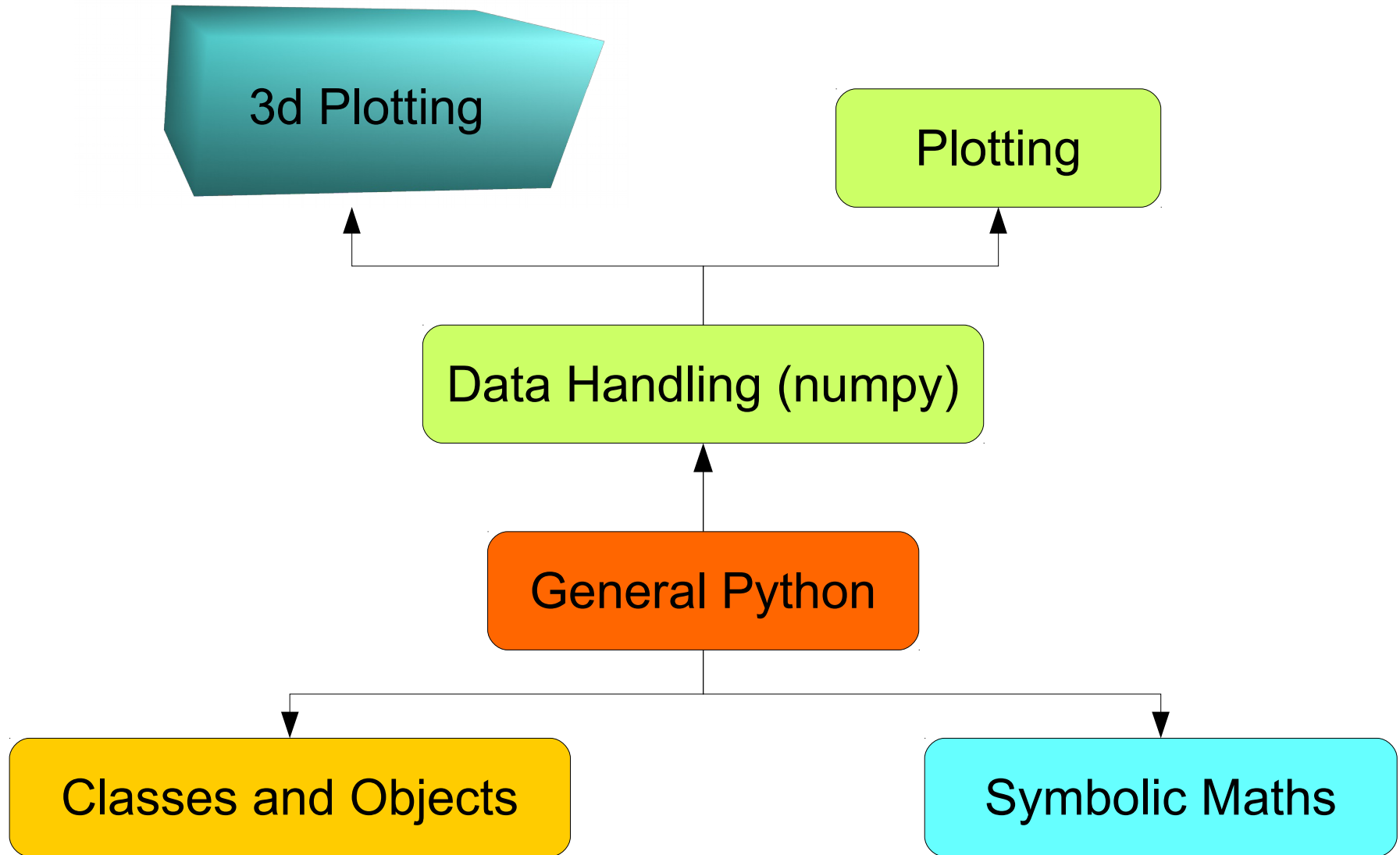




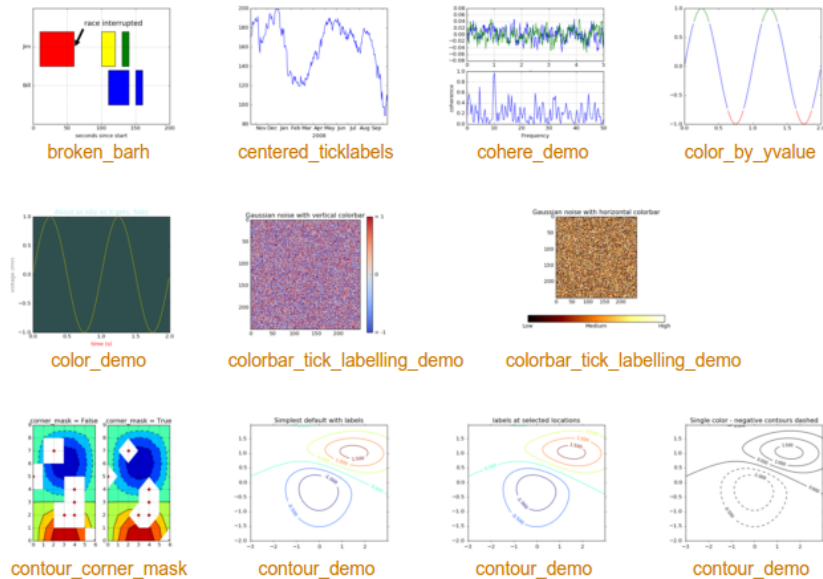
Epilogue

Looking Back



Outlook

Matplotlib Gallery



Scipy Functionalities

Tutorial

Tutorials with worked examples and background information for most SciPy submodules

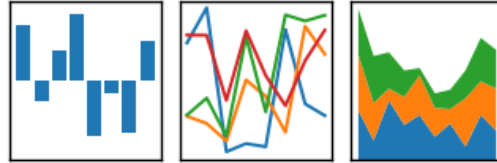
- **SciPy Tutorial**
 - Introduction
 - Basic functions
 - Special functions (**scipy.special**)
 - Integration (**scipy.integrate**)
 - Optimization (**scipy.optimize**)
 - Interpolation (**scipy.interpolate**)
 - Fourier Transforms (**scipy.fftpack**)
 - Signal Processing (**scipy.signal**)
 - Linear Algebra (**scipy.linalg**)
 - Sparse Eigenvalue Problems with ARPACK
 - Compressed Sparse Graph Routines (**scipy.sparse.csgraph**)
 - Spatial data structures and algorithms (**scipy.spatial**)
 - Statistics (**scipy.stats**)
 - Multidimensional image processing (**scipy.ndimage**)
 - File IO (**scipy.io**)
 - Weave (**scipy.weave**)

Outlook

Python Data Analysis Library

pandas

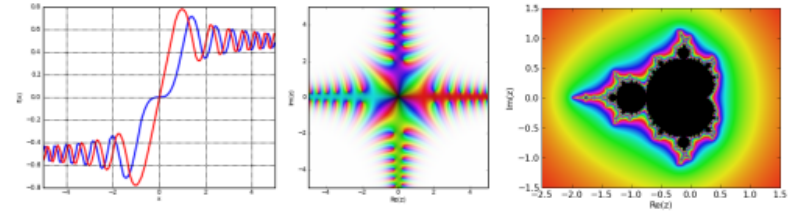
$$y_{it} = \beta' x_{it} + \mu_i + \epsilon_{it}$$



<http://pandas.pydata.org>

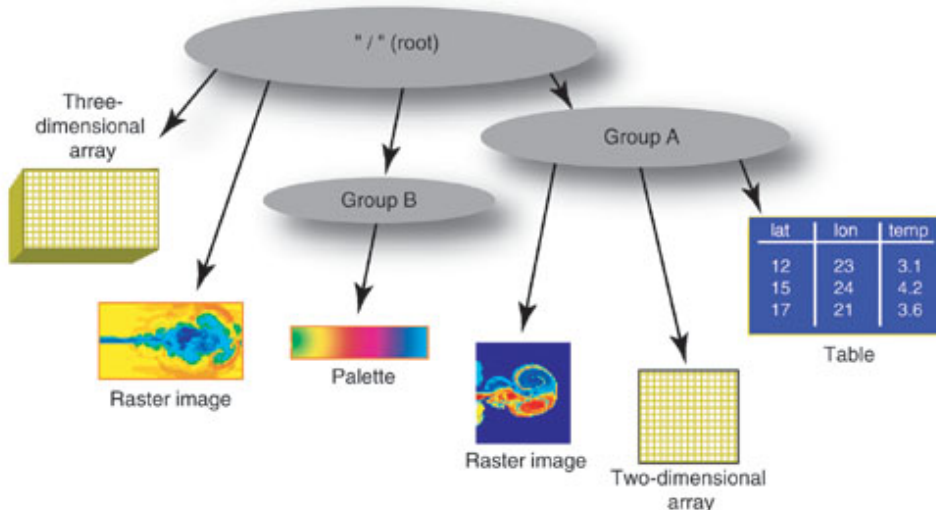
mpmath

floating-point arithmetic with arbitrary precision

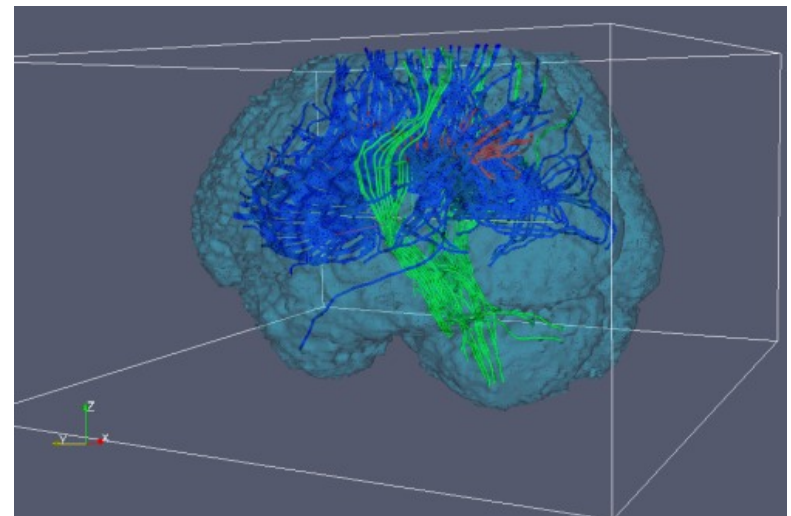


<http://mpmath.org>

Hierarchical Data Format



vtk Data Format



Outlook

SunPy

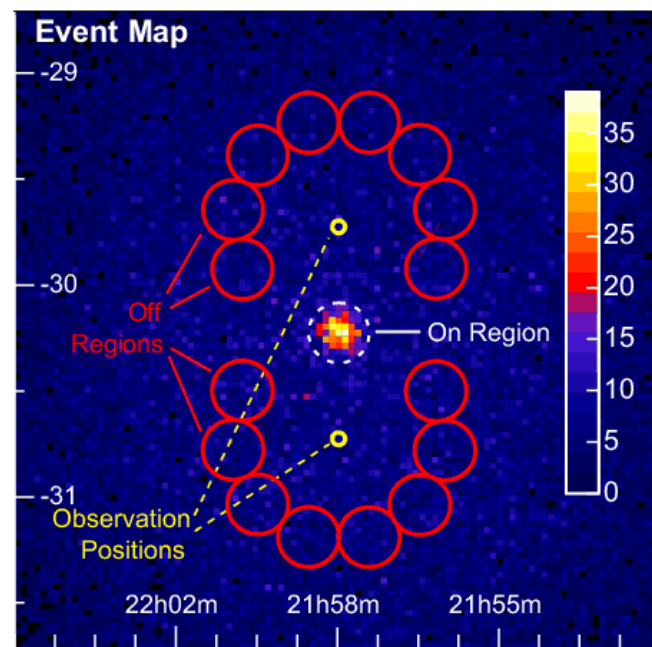
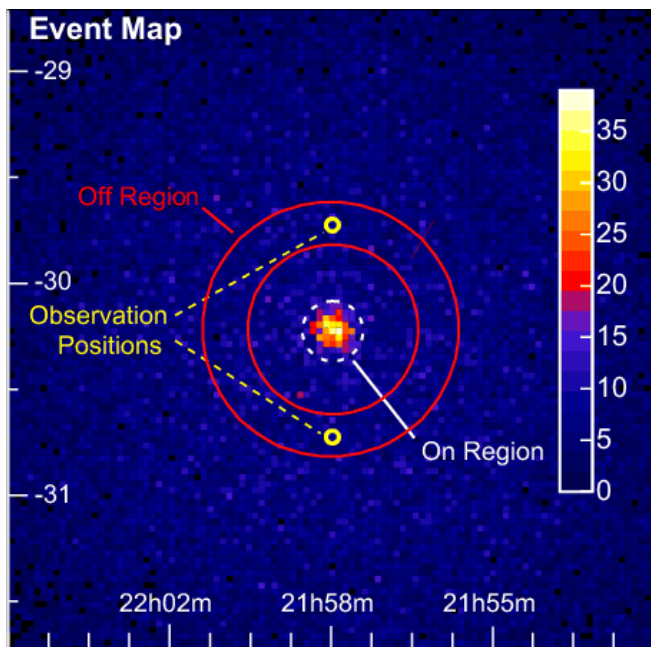


<http://sunpy.org>

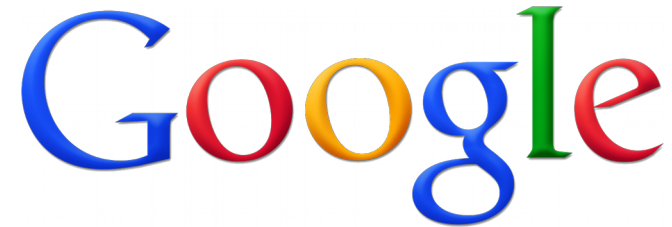
astropy



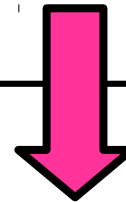
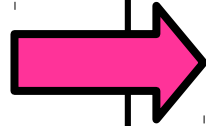
<http://www.astropy.org>



Help!



```
# Python Documentation  
help(plt.plot)  
plt.plot?  
source(plt.plot)  
plt.plot??
```



update U V data for matplotlib streamplot



3



1

After plotting streamlines using 'matplotlib.streamplot' I need to change the U V data and update the plot. For imshow and quiver there are the functions 'set_data' and 'set_UVC', respectively. There does not seem to be any similar function for streamlines. Is there any way to still update/get similar functionality?

[python](#) [matplotlib](#) [scipy](#)

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asked Dec 24 '12 at 10:35



[lomsn](#)
16 ● 2

3 I suspect the answer is no, because if you change the vectors, it would need to re-compute the streamlines. The objects returned by `streamline` are a line and patch collections, which know nothing about the streamlines. To get this functionality would require writing a new class to wrap everything up and finding a sensible way to re-use the existing objects. – [tacaswell](#) Dec 24 '12 at 17:31

1 A dirty workaround would be setting the visibility of the arrows and lines to 0 and then plotting the new streamlines. Will try if that is fast enough, since speed is an issue. – [lomsn](#) Dec 25 '12 at 0:06

Practice!

