



Py4Science 5 @ UND 2009-07-02



IP[y]:



#! --> Shebang

#!/usr/bin/env python

#!/home/gsever/Desktop/python-repo/python27a0/python

#!/home/gsever/Desktop/python-repo/py3k/python

Built-in functions

In [1]: `len()`, `__len__()`

In [2]: `[1,2,3]`, `list([1,2,3])`
tuple -> list

In [3]: `input()`, `raw_input()`

More IPython

- `ipython ipy1.py ... ipy2.py`
- `ipython ipy3.py`
- `ipython --pylab ipy3.py`
- no need for `import IPython`

Reading netcdf files

[netcdf4-python](#)

[Python/numpy interface to netCDF](#)

```
from netCDF4 import Dataset
```

```
f = Dataset('sau.nc', 'r')
```

```
# List variables --use .keys() method
```

```
f.variables
```

Duration calculation

Read the netcdf file

```
from datetime import datetime
```

Split the time interval

Create datetime objects

Difference is the duration

Matplotlib from its source

```
svn co https://matplotlib.svn.sourceforge.net/svnroot/matplotlib/trunk/matplotlib matplotlib
```

```
python setup.py install
```

---OR---

```
python setupegg.py develop
```

```
svn up
```