IPython Notebook and Scientific Stack

Quick Ipython Introdution

Some Imports and Settings

```python
#Some standard stuff. Also see last cell for custom css
import json
s = json.load( open("static/matplotlibrc.json") )
matplotlib.rcParams.update(s)
figsize(18, 4)
```

Notebook Basics

Using Markdown

Notebook Magics

User Input

```python
raw = raw_input("enter your input here >>> ")
print "hallo ", raw
```

```
enter your input here >>> KKKK
hallo  KKKK
```

Linking to Local Files

Adding Figures

Adding Youtube Videos

```python
from IPython.display import YouTubeVideo
YouTubeVideo('iwVvqwLDsJo', width=600, height=400)
```
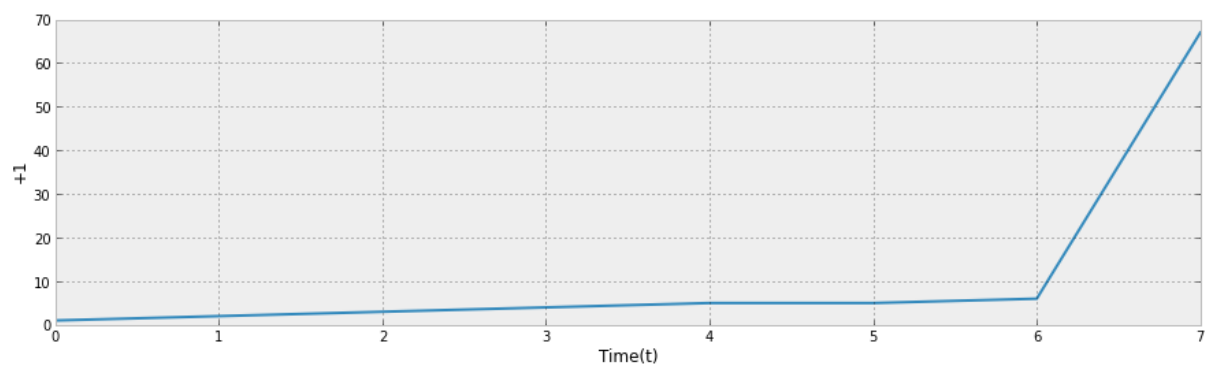
Plotting

custom plot setup

```
%pylab --no-import-all inline
figsize(15, 4)
xlabel('Time(t)')
ylabel('+1')
plot([1,2,3,4,5,5,6,67])
```

```
Populating the interactive namespace from numpy and matplotlib
```

```
[Line2D(_line0)]
```


Symbolic math

Pandas

Typesetting

Loading Code

Saving a Gist

Publish Your Work

Changing the Notebook Layout

```python
from IPython.core.display import HTML
def css_styling():

styles = open("static/custom.css", "r").read()
    return HTML(styles)
css_styling()
```

Some Interesting Notebooks