



IPython Notebooks

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IPython Notebook and Scientific Stack

Quick Ipython Introduction

Some Imports and Settings

```
#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

```
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

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

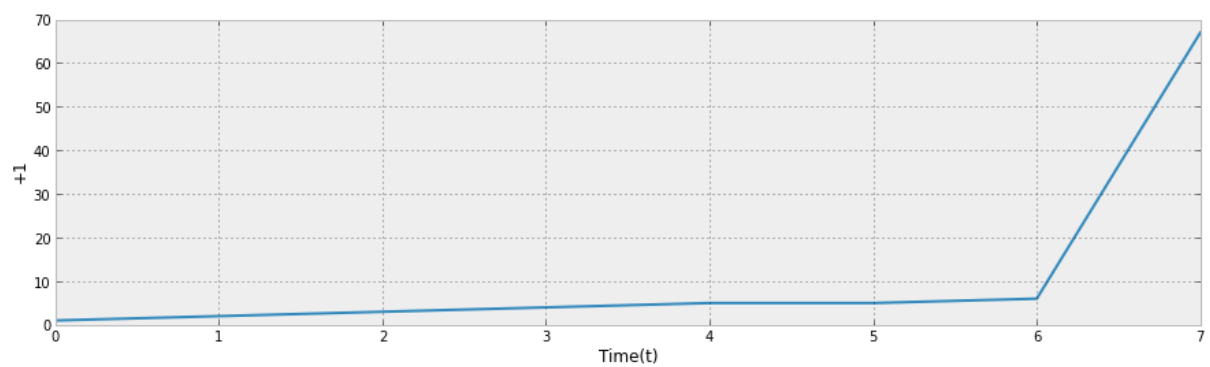
Plotting

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

```
from IPython.core.display import HTML
def css_styling():
    styles = open("static/custom.css", "r").read()
    return HTML(styles)
css_styling()
```

Some Interesting Notebooks