Contents:
IPython notebooks are great! Sphinx is cool as well. Let us add the two to have better docs. Let us do a bit of IPython jugglery. This page shows a demo of using some of IPython functionality and embedding it in sphinx docs.

```python
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
```

### 1.1 Creating a dummy Pandas dataframe

```python
df = pd.DataFrame(np.random.randn(50,2))
```

### 1.2 How does the dataframe display render?

```python
df.head()
```

### 1.3 What about plots?

```python
df.plot();
```
1.4 How about maths?

\[ x = \frac{y}{y + 1} \]

Here is the IPython notebook corresponding to this page and here is the github repo corresponding to this minimal example! Many people are already using this scheme. I just documented it for my benefit (and possibly someone else also may find it useful).

– Nipun Batra
IPython notebooks + Sphinx!!

## 2.1 Step I

Do the usual sphinx-quickstart

## 2.2 Step II

In the source folder create an IPython notebook, say hello.ipynb

## 2.3 Step III

Use nbconvert to export the notebook as a rst file.

```bash
$ipython nbconvert hello.ipynb --to rst
```

## 2.4 Step IV

Add the newly generated rst to your toctree. In my case, for demo purposes, I added it to index.rst. So, the contents of my index.rst look as follows:

```
!cat index.rst

.. sphinx_ipynb documentation master file, created by sphinx-quickstart on Thu May 8 11:31:26 2014.
You can adapt this file completely to your liking, but it should at least contain the root toctree directive.

Welcome to sphinx_ipynb’s documentation!
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Contents:

.. toctree::
   :maxdepth: 2
```

2.5 Step V

The usual sphinx stuff for building html. From the main sphinx folder:

$ make html

If everything goes right, you should have your html in build/html

2.6 Step VI (Optional)

Let us install sphinx-bootstrap theme and use it for prettier rendering (non-trivial to use with readthedocs).

$ pip install sphinx_bootstrap_theme

Also, the conf.py needs to be edited as per instructions on this page.

2.7 Step VII (Hosting)

One may host on github pages or on readthe docs. I have used both. I host this repo on readthedocs (and thus commented out sphinx_bootstrap_theme related stuff!

That is it folks!
CHAPTER 3

Indices and tables

• genindex
• modindex
• search