

# Tutorial and Demo Notebooks

- Tutorial and Demo notebooks can be found at:  
<https://github.com/graphistry/pygraphistry/tree/master/demos>
- Each one of these notebooks is also prepackaged in the Jupiter Notebook container that is provided in the release

### Quickstart: Graphing Les Misérables

This simple example from our [quickstart walkthrough](#) introduces the basics of PyGraphistry. We also have more advanced tutorials available.

You can [download this notebook](#) to run it locally.

```
In [1]: import pandas
import graphistry

graphistry.register(key='Email pygraphistry@graphistry.com to get your API key')
```

```
In [2]: # Parse CSV using Pandas
links = pandas.read_csv('data/lesmiserables.csv')
```

```
In [3]: # Let's have a peak at our data by printing the first three rows
links[:3]
```

	source	target	value
0	Napoleon	Myriel	1
1	Mlle.Baptistine	Myriel	8
2	Mme.Magloire	Myriel	10

```
In [4]: # Plot graph using the source/target columns as source/destination of edges
plotter = graphistry.bind(source='source', destination='target')
plotter.plot(links)
```

```
Out[4]:
```

```
In [5]: # New graph adding the number of encounters to edge labels.
links['label'] = links.value.map(lambda v: 'Num. Encounters: %d' % v)
plotter = plotter.bind(edge_label='label')
plotter.plot(links)
```

# Tutorial and Demo Notebooks

Notebook Name	Description
<b>Deliverable Testing and Tutorial Notebooks</b>	
UploadAPI	REST Data Upload tutorial
Workbook	Demonstrates and tests Graphistry's saving and sharing functionality.
Benchmarking/TestDatasets	Generates test datasets specified in the program plan.
<b>Tutorials and Demos</b>	
MiserablesDemo.ipynb	The 'Hello World' of graph visualization
MarvelTutorial.ipynb	Visualizes social network of super heros based on their coappearances in marvel comics.
BitcoinTutorial.ipynb	Silk Road Bitcoin Embezzling Visualization
BiogridDemo.ipynb	Visualize proteins and their interactions from <a href="https://thebiogrid.org/">https://thebiogrid.org/</a>
TitanDemo.ipynb	Integration with Titan graph database (now Datastax Graph)
Tutorial Part 1 (Honey Pot)	Visualizing Attacks on a Honey Pot
Tutorial Part 2 (Apache Logs)	Visualizing Apache Access Logs
Twitter	How to detect a botnet using visual graph analytics