Visualizaci?n de datos

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```
In [4]: import pandas as pd
    import numpy as np
    import matplotlib.pyplot as plt
    import matplotlib.mlab as mlab
    import math
    import seaborn as sns
    from IPython.display import Image
    %matplotlib inline
```

0.1 Visualización de Datos

http://www.slideshare.net/idigdata/data-visualization-best-practices-2013

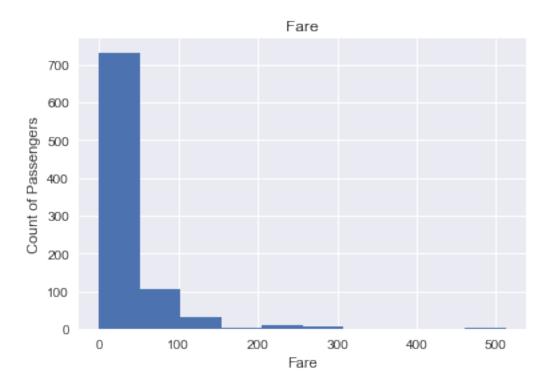
```
In [5]: Image(url="http://istc-bigdata.org/wp-content/uploads/2014/09/ISTC-Blog-Automating-Vis-
Out[5]: <IPython.core.display.Image object>
```

- 0.1.1 Herramientas para la visualización de datos en Python (De Python Awesome List: https://github.com/vinta/awesome-python/blob/master/README.md#data-visualization)
 - matplotlib A Python 2D plotting library.
 - bokeh Interactive Web Plotting for Python.
 - ggplot Same API as ggplot2 for R.
 - plotly Collaborative web plotting for Python and matplotlib.
 - pygal A Python SVG Charts Creator.
 - orange Data mining, data visualization, analysis and machine learning through visual programming or Python scripting.
 - pygraphviz Python interface to Graphviz.
 - PyQtGraph Interactive and realtime 2D/3D/Image plotting and science/engineering widgets.
 - SnakeViz A browser based graphical viewer for the output of Python's cProfile module.
 - vincent A Python to Vega translator.
 - VisPy High-performance scientific visualization based on OpenGL.

0.1.2 The grammar of graphics

http://ggplot2.org/resources/2007-past-present-future.pdf

skewness: 4.78731651967 kurtosis: 33.3981408809



0.1.3 Herramientas externas para la visualización de datos

- Tableau
- raw.io (http://app.raw.densitydesign.org/)
- easil.ly

0.1.4 D3.js

0.1.5 Actividad: Elige cualquiera de los métodos que vimos, y visualiza el resultado del análisis que hicimos durante el workshop

0.1.6 Recursos:

- http://www.cs171.org/2016/index.html
- https://github.com/rodowi/geo-is-osm
- http://blog.hubspot.com/marketing/excel-graph-tricks-list