Part 2 : Other Interesting Python Packages

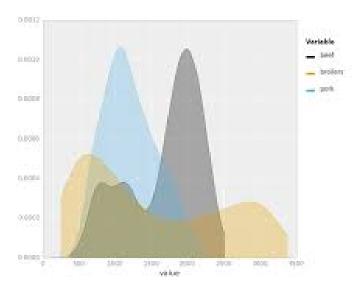
statsmodels

- statsmodels provides a large range of cross-sectional models aswell assometime-series models.
- statsmodels uses a model descriptive language (provided via the Python package patsy) to formulate the model when working with pandas DataFrames.
- Models supported include linear regression, generalized linear models, limited dependent variable models, ARMA and VAR models.

Bokeh Data Visualization



Bokeh Data Visualization



Bokeh Data Visualization

- interactive graphics for the web
- designed for large data sets
- Designed for streaming data
- Native interface in pythin
- Fast javascript components
- DARPA funded
- v.01 relase imminent



Figure:

scikit.learn



- scikit-learn is an open source machine learning library for the Python programming language.
- scikit-learn features various classification, regression and clustering algorithms including support vector machines, logistic regression, naive Bayes, random forests, gradient boosting, k-means and DBSCAN.
- scikit-learn is designed to interoperate with the Python numerical and scientific libraries NumPy and SciPy.

pytz and babel

ptyz and babel provide extended support for time zones and formatting information.

rpy2 provides an interface for calling R 3.0.x in Python, as well as facilities for easily moving data between the two platforms.

PyTables and h5py

PyTables and h5py both provide access to HDF5 files, a flexible data storage format optimized for numeric data.