GraphLab Cheatsheet

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# Classifiers

## Logistic Classifier

sentiment\_model = graphlab.logistic\_classifier.create(train\_data,

target='sentiment',

features=['word\_count'],

validation\_set=test\_data)

## Show ROC Curve for Classifier

sentiment\_model = graphlab.logistic\_classifier.create(train\_data,

target='sentiment',

features=['word\_count'],

validation\_set=test\_data)

sentiment\_model.evaluate(test\_data, metric='roc\_curve')

sentiment\_model.show(view='Evaluation')

# Environment

## Plot into the iPython notebook

graphlab.canvas.set\_target('ipynb')

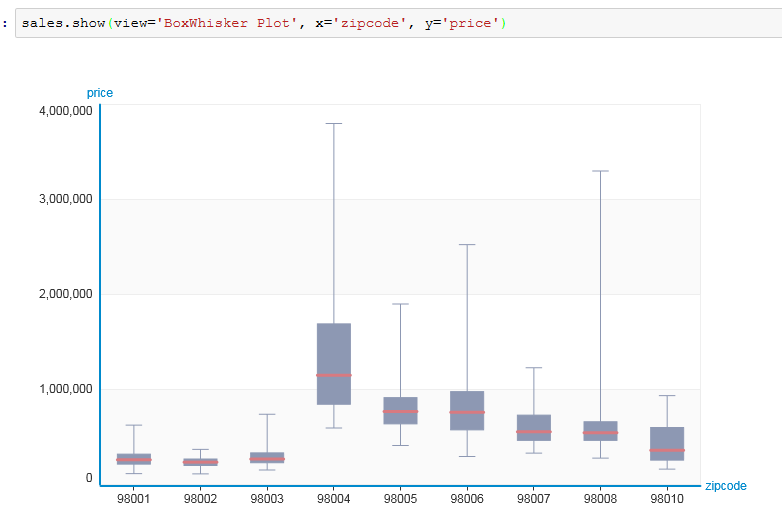
# Images

## Show an image

<img src="house-1925069082.jpg">

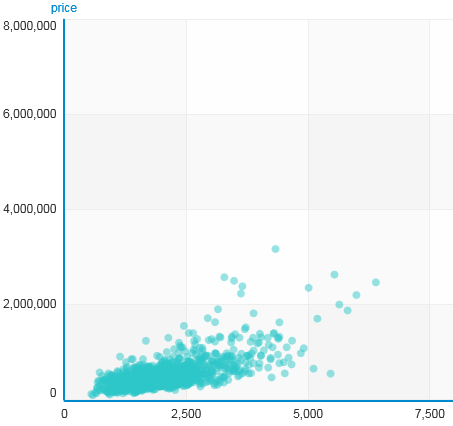
# Plotting

## Box Whisker Plot



## Scatter Plot

sales.show(view="Scatter Plot", x="sqft\_living", y="price")



# Regression

## Create a regression model

sqft\_model = graphlab.linear\_regression.create(train\_data, target='price', features=['sqft\_living'])

## Coefficients of a regression model

sqft\_model.get('coefficients')

# SFrames

## Add a column to an Sframe

sf['Full Name'] = sf['First Name'] + ' ' + sf['Last Name']

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **First Name** | **Last Name** | **Country** | **age** | **Full Name** |
| Bob | Smith | United States | 24 | Bob Smith |
| Alice | Williams | Canada | 23 | Alice Williams |
| Malcolm | Jone | England | 22 | Malcolm Jone |

## Apply a function to an Sframe column

def transform\_country(country):

if country == 'USA':

return 'United States'

else:

return country

sf['Country'] = sf['Country'].apply(transform\_country)

## Max of a column

sf['age'].max()

## Mean of a column

sf['age'].mean()

## Random partition of an Sframe

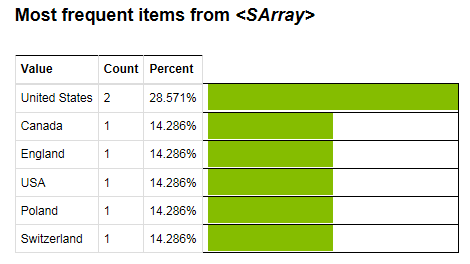
train\_data,test\_data = sales.random\_split(.8,seed=0)

## Sort an SFrame

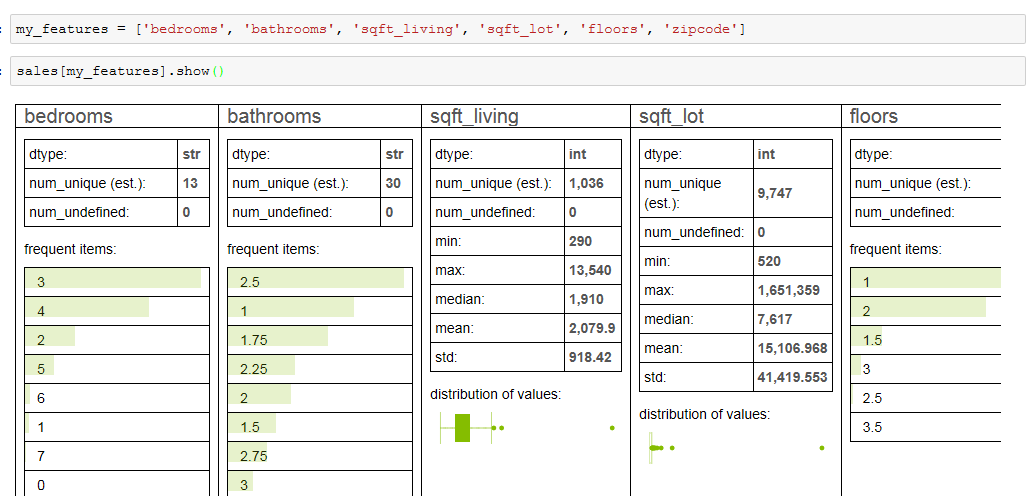
giraffe\_reviews = giraffe\_reviews.sort('predicted\_sentiment', ascending=False)

## Summary of a column

sf['Country'].show()



## Visualize columns



# Text Analytics

## Word Count

products['word\_count'] = graphlab.text\_analytics.count\_words(products['review'])

