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First let’s get some data (in this case 1000 tweets about Donald Trump. I’m using Somecode Twitter Research kit to get the data directly into a pandas dataframe from Twitter API

```python
import somecode as some
df = some.search("trump",100)
```

dataFrame with n=100 for keyword 'trump' created on 2016-11-13 10:45:58 successfully withour errors.
1.1. List of Functions

- Text (e.g. tweets)
- Descriptive Stats
- Bars
- Side-by-side Histogram
- Bubble Chart (4 dimensions)
- Heatmap Correlation (up to 40 variables)
- Kernel Density Estimation
- Swarming
- OLS Regression test
1.2. Common function parameters

Because generally the user is required to spend much time to figure out basic configuration, such as titles, scales etc, astetik is focused on making frequently repeated operations as intuitive accessible as possible.

Example parameters:

- title / string to be used as a title for the graphic
- suptitle / string to be used as subtitle for the graphic
- xscale / for setting the scale of x axis ("linear","symlog","log")
- yscale / see above line
- color / for changing a single color
- palette / for changing a palette of colors (astetik is using Seaborn palettes but you could use any)
2. Examples of text and table presentation

The below examples highlight astetik’s functionality when used at the most basic level.

### 3.1 2.1. Tweets with most retweets

```
astetik.text(df, 'text', 5, sort_by='retweet_count')
```

### 3.2 2.2. Negative tweets sorted by number of retweets

```
astetik.text(df[df.neg > 0.2], 'text', 'Negative tweets with many retweets', 5, sort_by='retweet_count')
```

### 3.3 Descriptive statistics in a table

```
astetik.descriptive(df, ['neg', 'neu', 'pos'], 'Sentiment')
```

### 3.4 OLS Regression Test

```
astetik.ols(df, 'retweet_count', 'neg', 'neu', 'pos')
```
CHAPTER 4

3. Examples of plot presentation

4.1 3.1. Side-by-side histograms

```python
astetik.histogram(df,['quality_score','neu'])
```

4.2 3.2. Horizontal bars for a single dimension of data
4.3 3.3. Bubble chart for displaying 4 dimensions of data

```python
astetik.bubble(df,'influence_score','reach_score','egg_account','retweet_count',
               xscale='symlog', yscale='symlog')
```

4.4 3.4. Correlation heatmap for up to 30 variables

```python
astetik.correlationt(df)
```
4.5 3.5. Kernel Density Estimation

```python
astetik.kde(df.influence_score, df.retweet_count, xscale="symlog", yscale="symlog")
```
4.6 3.6. Swarming

```python
astetik.swarm(df, 'neg', 'retweet_count', yscale="symlog")
```
4.6. 3.6. Swarming
CHAPTER 5

4. Examples of general presentation

5.1 4.1. Toggle for hiding code cells

```python
astetik.toggle()
```

```python
astetik.warning()
```
5. Using astetik in your next research project

```
pip install astetik
```