In [ ]: NAKIBERU, 2/07/2019

In [1]:
```python
#import libraries
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import cufflinks as cf
import plotly.plotly as py
import plotly.tools as tls
import plotly.graph_objs as go
```

In [2]:
```
! pip install plotly
! pip install cufflinks
```

```
Requirement already satisfied: plotly in c:\users\nakibeda\appdata\local\cont
inuum\anaconda3\lib\site-packages (3.6.0)
Requirement already satisfied: retrying>=1.3.3 in c:\users\nakibeda\appdata\l
ocal\continuum\anaconda3\lib\site-packages (from plotly) (1.3.3)
Requirement already satisfied: six in c:\users\nakibeda\appdata\local\continu
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Requirement already satisfied: jsonschema!=2.5.0,>=2.4 in c:\users\nakibeda\a
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2.0)
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Requirement already satisfied: jedi>=0.10 in c:\users\nakibeda\appdata\local
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Requirement already satisfied: decorator in c:\users\nakibeda\appdata\local\c
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Requirement already satisfied: prompt-toolkit<2.1.0,>=2.0.0 in c:\users\nakib
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Requirement already satisfied: colorama; sys_platform == "win32" in c:\users
\nakibeda\appdata\local\continuum\anaconda3\lib\site-packages (from ipython>=
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ntinuum\anaconda3\lib\site-packages (from plotly>=3.0.0->cufflinks) (2.21.0)
Requirement already satisfied: python-dateutil>=2.5.0 in c:\users\nakibeda\ap
pdata\local\continuum\anaconda3\lib\site-packages (from pandas>=0.19.2->cuffl
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Requirement already satisfied: jsonschema!=2.5.0,>=2.4 in c:\users\nakibeda\a
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Requirement already satisfied: tornado>=4.2 in c:\users\nakibeda\appdata\loca
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Requirement already satisfied: urllib3<1.25,>=1.21.1 in c:\users\nakibeda\app
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Requirement already satisfied: certifi>=2017.4.17 in c:\users\nakibeda\appdat
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cufflinks) (2018.11.29)
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in c:\users\nakibeda\app
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Requirement already satisfied: idna<2.9,>=2.5 in c:\users\nakibeda\appdata\lo
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Requirement already satisfied: pyzmq>=13 in c:\users\nakibeda\appdata\local\c
ontinuum\anaconda3\lib\site-packages (from jupyter-client->ipykernel>=4.5.1->
ipywidgets>=7.0.0->cufflinks) (17.1.2)
Requirement already satisfied: Send2Trash in c:\users\nakibeda\appdata\local
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Requirement already satisfied: nbconvert in c:\users\nakibeda\appdata\local\c
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Requirement already satisfied: prometheus-client in c:\users\nakibeda\appdata
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Requirement already satisfied: jinja2 in c:\users\nakibeda\appdata\local\cont
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Requirement already satisfied: terminado>=0.8.1 in c:\users\nakibeda\appdata
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extension~=3.4.0->ipywidgets>=7.0.0->cufflinks) (0.8.1)
Requirement already satisfied: mistune>=0.8.1 in c:\users\nakibeda\appdata\lo
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Requirement already satisfied: entrypoints>=0.2.2 in c:\users\nakibeda\appdat
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Requirement already satisfied: bleach in c:\users\nakibeda\appdata\local\cont
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extension~=3.4.0->ipywidgets>=7.0.0->cufflinks) (3.0.2)
Requirement already satisfied: pandocfilters>=1.4.1 in c:\users\nakibeda\appd
ata\local\continuum\anaconda3\lib\site-packages (from nbconvert->notebook>=4.
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nbextension~=3.4.0->ipywidgets>=7.0.0->cufflinks) (0.4.2)
Requirement already satisfied: defusedxml in c:\users\nakibeda\appdata\local
\continuum\anaconda3\lib\site-packages (from nbconvert->notebook>=4.4.1->widg
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Requirement already satisfied: MarkupSafe>=0.23 in c:\users\nakibeda\appdata
\local\continuum\anaconda3\lib\site-packages (from jinja2->notebook>=4.4.1->w
idgetsnbextension~=3.4.0->ipywidgets>=7.0.0->cufflinks) (1.1.0)
```

```
Requirement already satisfied: webencodings in c:\users\nakibeda\appdata\loca
l\continuum\anaconda3\lib\site-packages (from bleach->nbconvert->notebook>=4.
4.1->widgetsnbextension~=3.4.0->ipywidgets>=7.0.0->cufflinks) (0.5.1)
```

In [16]: `pd.read_csv("pageviews-day-segement.csv")`

Out[16]:

	# --------------------------------------	Unnamed: 1
0	# 1 Master View	NaN
1	# Audience Overview	NaN
2	# 20190131-20190206	NaN
3	# --------------------------------------	NaN
4	NaN	NaN
5	Day Index	Users
6	1/31/2019	464
7	2/1/2019	398
8	2/2/2019	285
9	2/3/2019	251
10	2/4/2019	653
11	2/5/2019	523
12	2/6/2019	642
13	NaN	3,216

In [17]:
```
#check datatypes
df.dtypes
```

Out[17]:
```
# --------------------------------------          object
Unnamed: 1                                        object
dtype: object
```

In [18]:
```
# wrangle dataset
df.shape
```

Out[18]: `(14, 2)`

In [19]:
```
tls.set_credentials_file(username = 'DaphineR', api_key = 'irBHtEVO7YIfcNO2eg2
L')
```
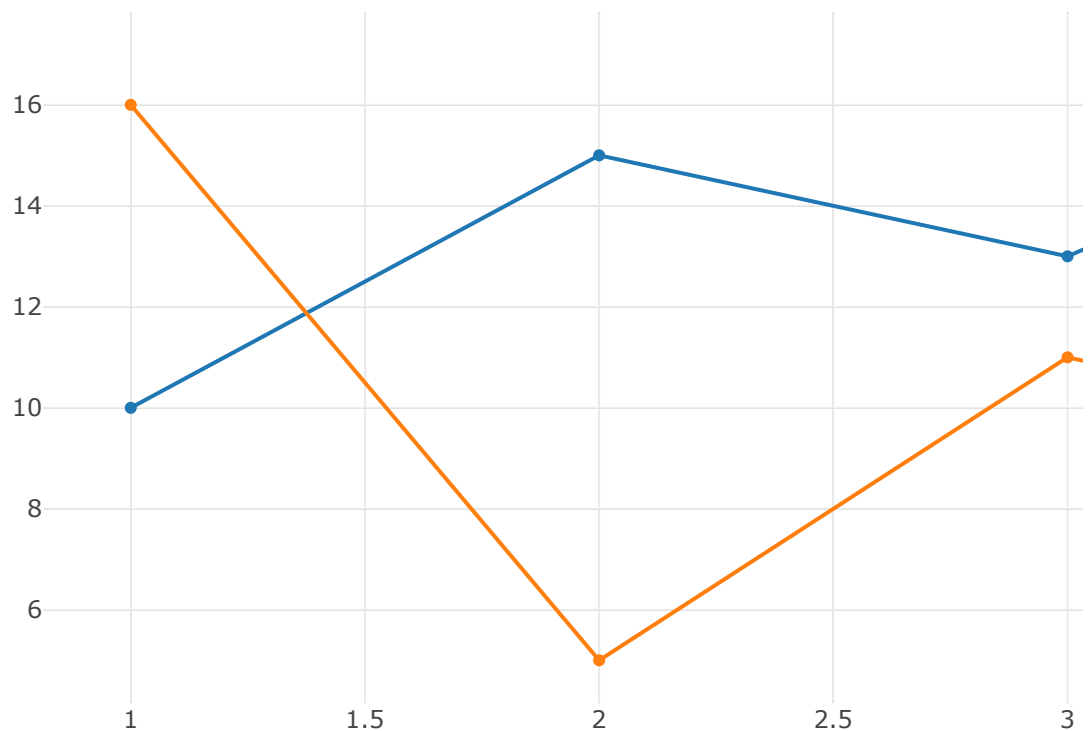
In [20]:
```python
import plotly.plotly as py
import plotly.graph_objs as go

trace0 = go.Scatter(
    x=[1, 2, 3, 4],
    y=[10, 15, 13, 17]
)
trace1 = go.Scatter(
    x=[1, 2, 3, 4],
    y=[16, 5, 11, 9]
)
data = [trace0, trace1]

py.iplot(data, filename = 'basic-line')
```

High five! You successfully sent some data to your account on plotly. View your plot in your browser at https://plot.ly/~DaphineR/0 or inside your plot.ly account where it is named 'basic-line'

Out[20]:

EDIT CHART

In [22]:
```
pd.read_csv("pageviews-week-segement.csv")
```

Out[22]:

	# ------------------------------------	Unnamed: 1
0	# 1 Master View	NaN
1	# Audience Overview	NaN
2	# 20190131-20190206	NaN
3	# ------------------------------------	NaN
4	NaN	NaN
5	Week Index	Users
6	0	1,101
7	1	1,958
8	NaN	3,059

In [24]:
```
#check datatypes
df.dtypes
```

Out[24]:
```
# ---------------------------------------      object
Unnamed: 1                                      object
dtype: object
```
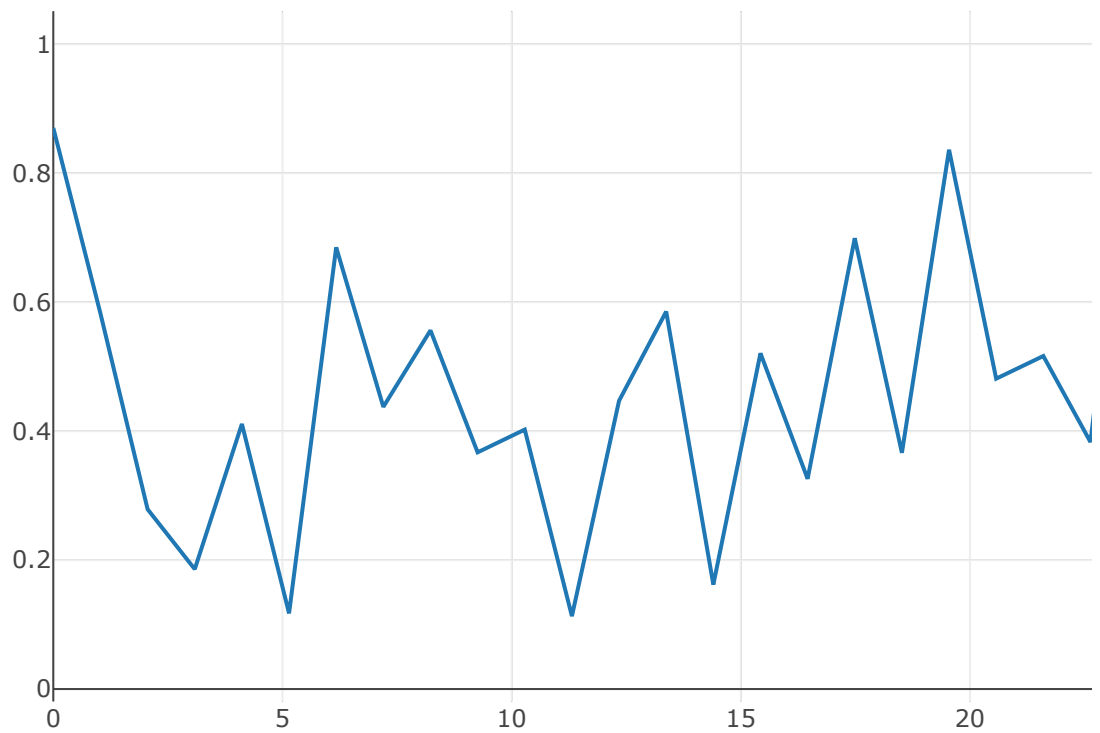
In [26]:
```
# wrangle dataset
df.shape
```

Out[26]:
```
(14, 2)
```

In [27]:
```python
a = np.linspace(start =0,stop =36,num =36)
np.random.seed(25)
b = np.random.uniform(low = 0.0, high = 1.0, size = 36)
trace = go.Scatter(x=a, y=b)
data = [trace]
py.iplot(data,filename='basic-line-chart')
```

Out[27]:

EDIT CHART