data-visualizatio

Use the "Run" button to execute the code.

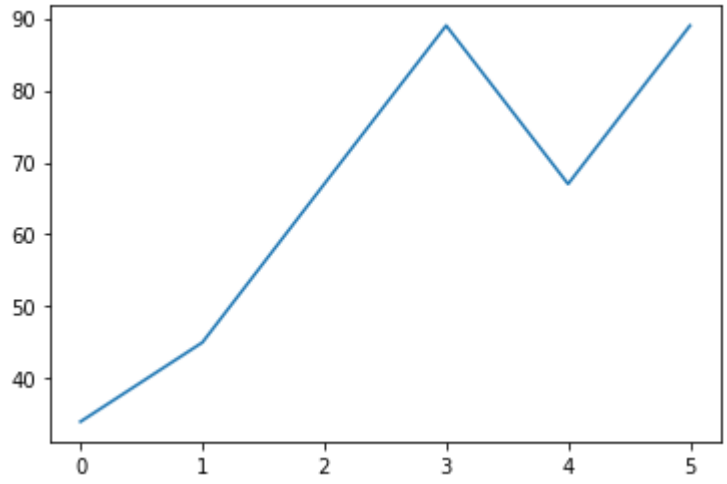
```
print('Hello World')
```

```
Hello World
```

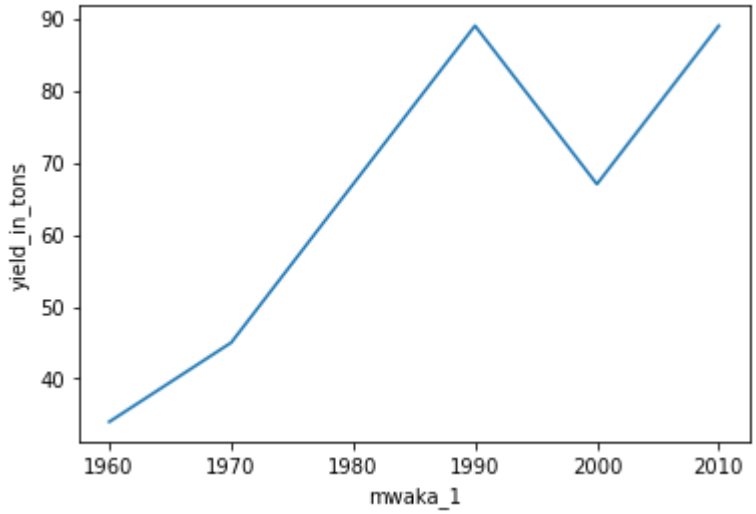
```
import matplotlib.pyplot as pl
import seaborn as sns
%matplotlib inline
```

```
crop=[34,45,67,89,67,89]
```

```
pl.plot(crop);
yea=[1960,1970,1980,1990,2000,2010]
```

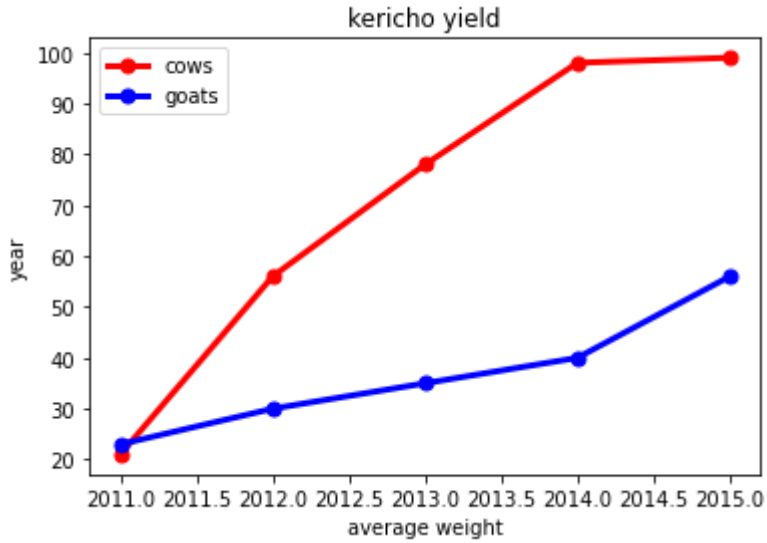



```
pl.plot(yea,crop)
pl.ylabel('yield_in_tons')
pl.xlabel("mwaka_1");
```



```
cows=[21,56,78,98,99]
goats=[23,30,35,40,56]
year=[2011,2012,2013,2014,2015]
```

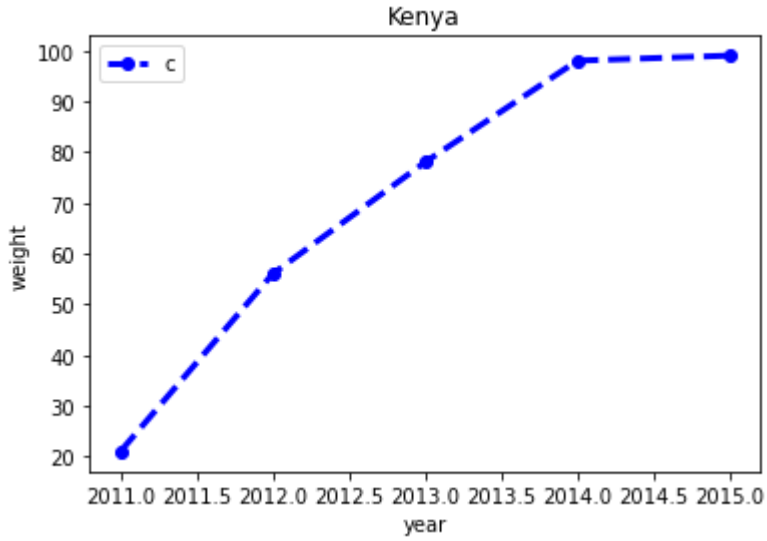
```
pl.plot(year,cows,marker="o",c="red",lw=3,ls="-",ms=7)
pl.plot(year,goats,marker="o",c="blue",lw=3,ls="-",ms=7)
pl.xlabel("average weight")
pl.ylabel("year")
pl.title("kericho yield")
pl.legend(["cows","goats"]);
```




```
pl.plot(year,cows,marker="o",c="red",lw=3,ls="--",ms=7,alpha=.5)# ls means linestyle, l
```

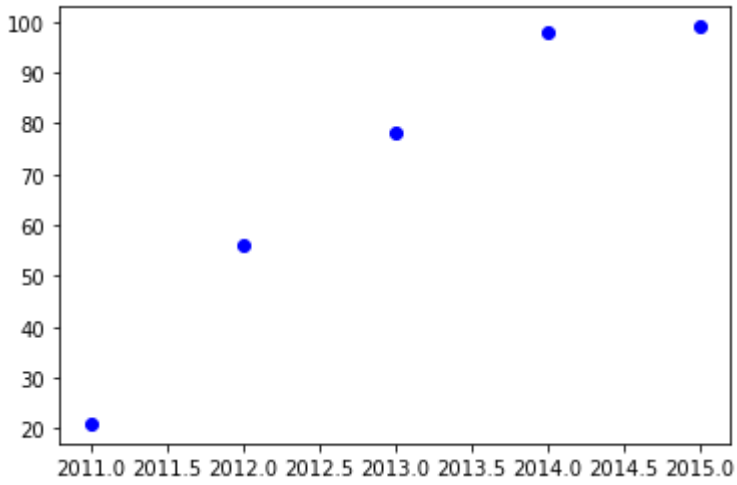
```
[<matplotlib.lines.Line2D at 0x7f2495c1a220>]
```


```
pl.plot(year,cows,"o--b",lw=3,alpha=1)#o means marker, -- means linestyle, b means colo
pl.legend("cow")
pl.title("Kenya")
pl.xlabel("year")
pl.ylabel("weight");
```

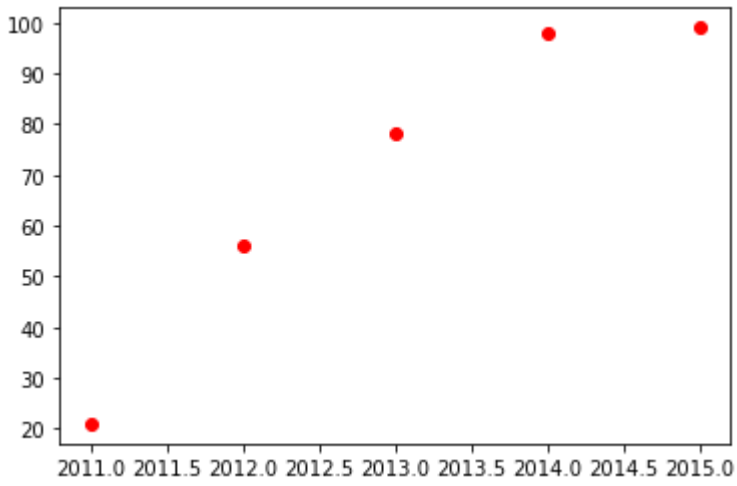



```
pl.plot(year,cows,"ob",lw=3,alpha=1)#no line
```

```
[<matplotlib.lines.Line2D at 0x7f2495d4f970>]
```



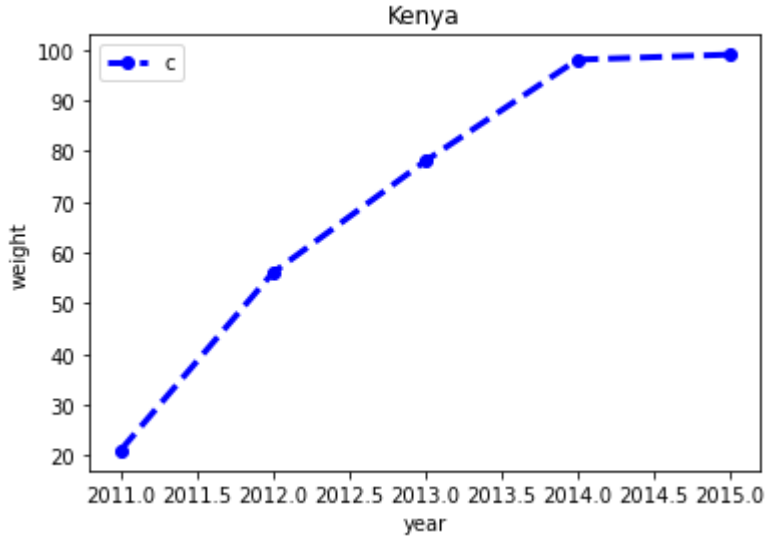

```
pl.plot(year,cows,"or",lw=3,alpha=1)
pl.figure(figsize=[7,10]);#plot size
```




```
<Figure size 504x720 with 0 Axes>
```

```
pl.plot(year,cows,"o--b",lw=3,alpha=1)#o means marker, -- means linestyle, b means colo
pl.legend("cow")
pl.title("Kenya")
```

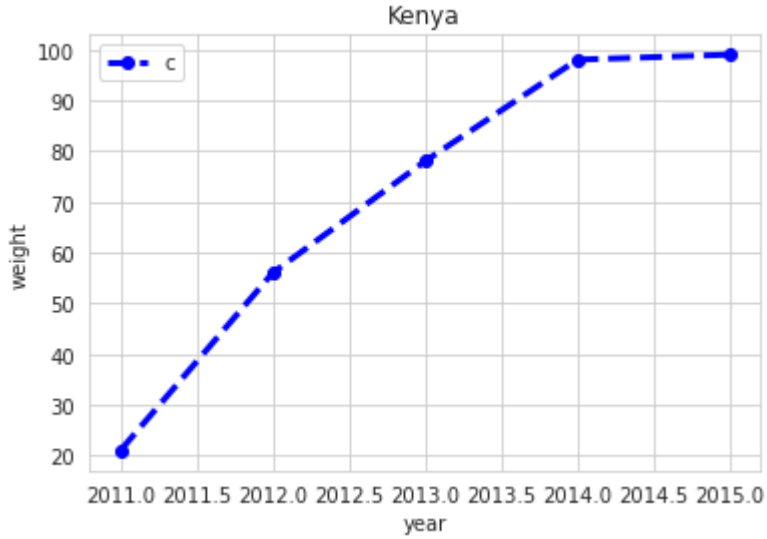
```
pl.xlabel("year")
pl.ylabel("weight")
sns.set_style("whitegrid");
```




```

```

```
pl.plot(year,cows,"o--b",lw=3,alpha=1)#o means marker, -- means linestyle, b means colo
pl.legend("cow")
pl.title("Kenya")
pl.xlabel("year")
pl.ylabel("weight")
sns.set_style("darkgrid");
```

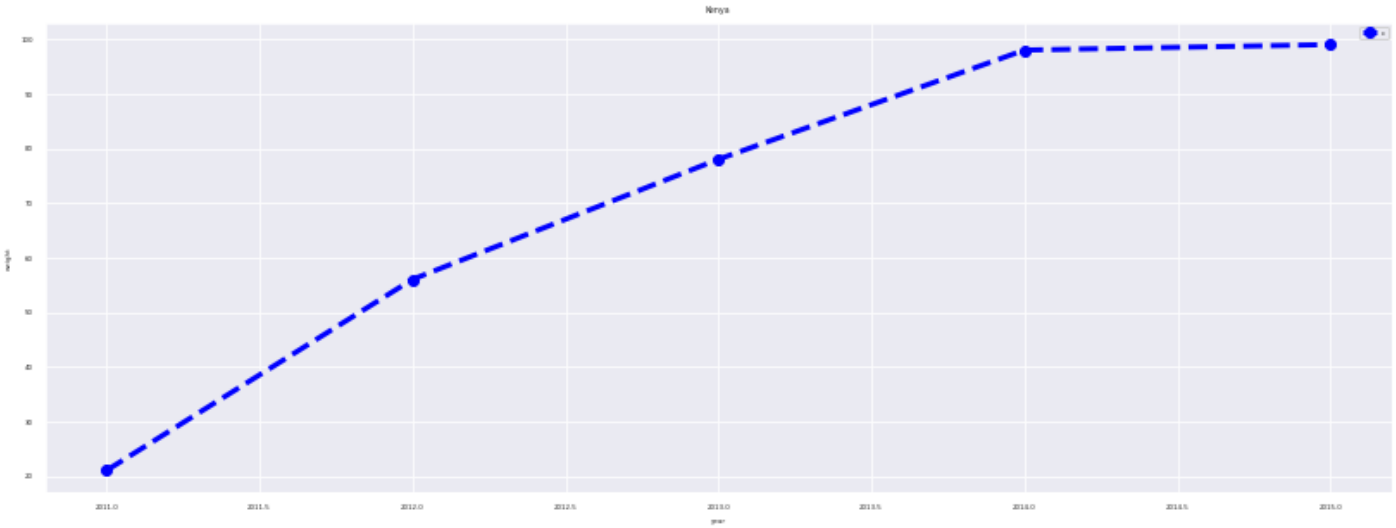



```
import matplotlib
```

```
matplotlib.rcParams["font.size"]=4
matplotlib.rcParams["figure.figsize"]=(14,5)
matplotlib.rcParams["figure.facecolor"]= "#00000000"
```

```
pl.plot(year,cows,"o--b",lw=3,alpha=1)#o means marker, -- means linestyle, b means colo
pl.legend("cow")
```

```
pl.title("Kenya")
pl.xlabel("year")
pl.ylabel("weight")
sns.set_style("darkgrid");
```



```
!pip install jovian
```

```
Requirement already satisfied: jovian in /opt/conda/lib/python3.9/site-packages
(0.2.45)
Requirement already satisfied: requests in /opt/conda/lib/python3.9/site-packages (from
jovian) (2.26.0)
Requirement already satisfied: uuid in /opt/conda/lib/python3.9/site-packages (from
jovian) (1.30)
Requirement already satisfied: click in /opt/conda/lib/python3.9/site-packages (from
jovian) (8.0.3)
Requirement already satisfied: pyyaml in /opt/conda/lib/python3.9/site-packages (from
jovian) (6.0)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in /opt/conda/lib/python3.9/site-
packages (from requests->jovian) (1.26.7)
Requirement already satisfied: charset-normalizer~=2.0.0 in
/opt/conda/lib/python3.9/site-packages (from requests->jovian) (2.0.0)
Requirement already satisfied: idna<4,>=2.5 in /opt/conda/lib/python3.9/site-packages
(from requests->jovian) (3.1)
Requirement already satisfied: certifi>=2017.4.17 in /opt/conda/lib/python3.9/site-
packages (from requests->jovian) (2021.10.8)
```

```
import jovian
```

```
jovian.commit(project="matplotlib data visualization")
```

```
[jovian] Creating a new project "kelvinkipkirui/matplotlib data visualization"
[jovian] Committed successfully! https://jovian.com/kelvinkipkirui/matplotlib-data-
visualization
```

```
'https://jovian.com/kelvinkipkirui/matplotlib-data-visualization'
```

```
```