basic_plot

July 30, 2021

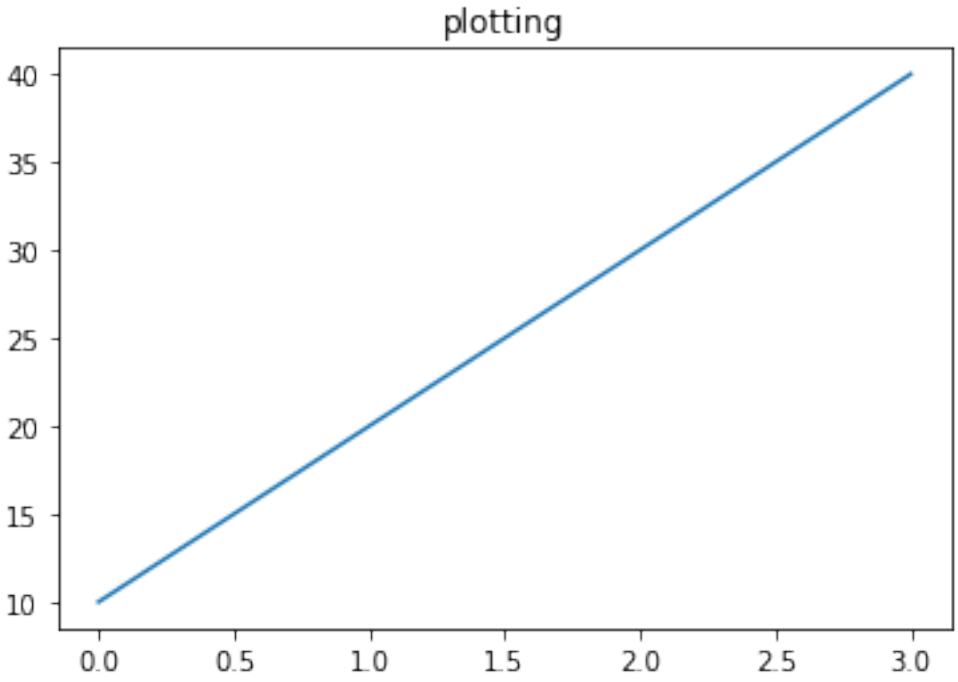
[14]:
```
import matplotlib.pyplot as plt
```

[15]:
```
import random
```

[ ]:
```
from modu.template import ChangedTemperaturesOnMyBirthday
from modu.template.basic_hist import highest_temperature
```

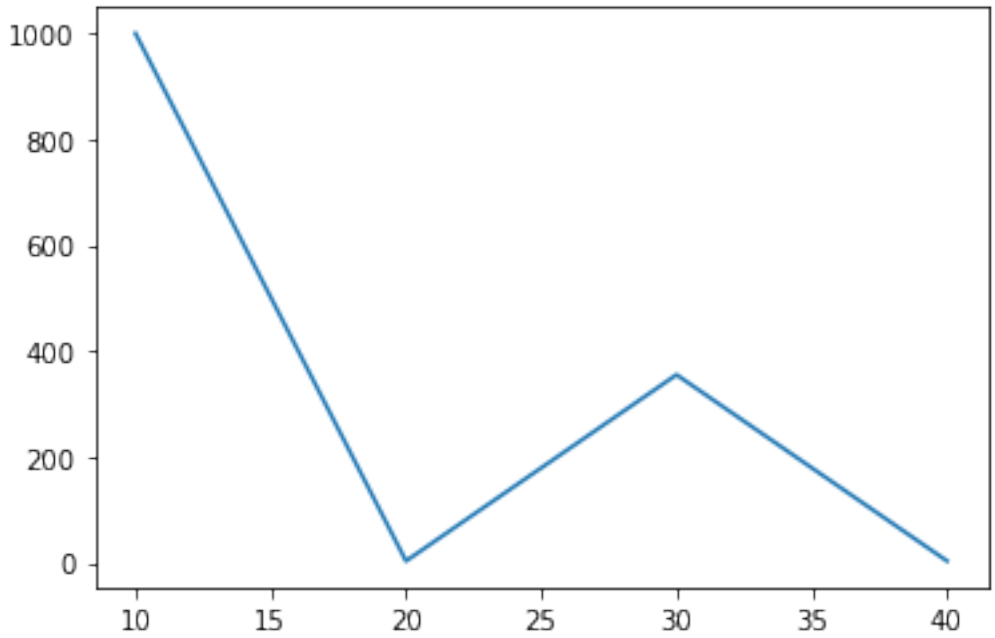
[2]:
```
def plot_show():
    plt.title("plotting")
    plt.plot([10,20,30,40])
    plt.show()
```

[3]:
```
plot_show()
```



[4]:
```
def plot_two_list_show():
    plt.plot([10, 20, 30, 40],[1000, 3 ,355, 3])
    plt.show()
```

[7]:
```
plot_two_list_show()
```



[ ]:
```
def plot_label():
    plt.title("plotting")
    plt.plot([10, 20, 30, 40], label='asc')
    plt.plot([40, 30, 10, 10], label='desc')
    plt.legend()
    plt.show()
```

[11]:
```
plot_label()
```

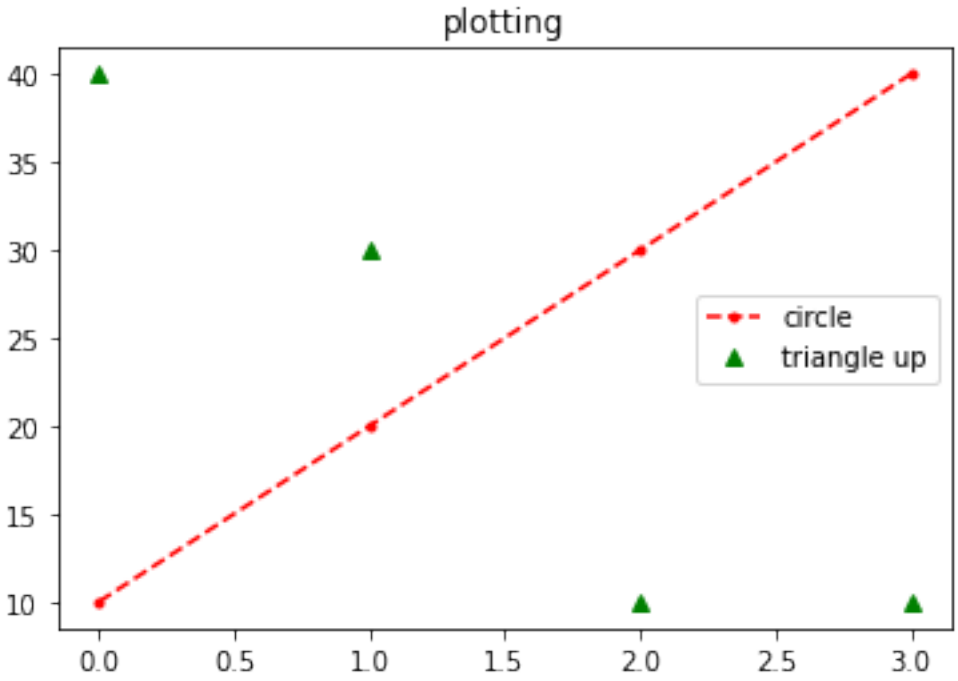
```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-11-74cdd451e6ac> in <module>
----> 1 plot_label()

NameError: name 'plot_label' is not defined
```

[ ]:
```
def plot_marker():
    plt.title("plotting")
    plt.plot([10, 20, 30, 40],'r.--', label='circle')
```

```
    plt.plot([40, 30, 10, 10],'g^' ,label='triangle up')
    plt.legend()
    plt.show()
```

[12]:
```
plot_marker()
```



[ ]:
```
def scatter():
    plt.title("plotting")
    plt.plot([10, 20, 30, 40], 'r.', label='circle')
    plt.plot([40, 30, 10, 10], 'g^', label='triangle up')
    plt.legend()
    plt.show()
```

[13]:
```
scatter()
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-13-a44159f130bf> in <module>
----> 1 scatter()

NameError: name 'scatter' is not defined
```

[ ]:
```
def sorted_random_arr()-> []:
    arr = []
    [arr.append(random.randint(1, 1000)) for i in range(13)]
    return arr

def show_boxplot(arr:[]):
    plt.boxplot(arr)
    plt.show()

def show_boxplot_month(month:str):
    plt.boxplot(highest_temperature(month))
    plt.show()
def show_boxplot_all_month():
    birth = ChangedTemperaturesOnMyBirthday()
    birth.read_data()
    data = birth.data

    #monthls =[]
    #month1 = []
    month = [[],[],[],[],[],[],[],[],[],[],[],[]]
    #for row in data:
      #  if row[-1] !='':
     #       month[int(row[0].split('-')[1])-1].append(float(row[-1]))
    #print(len(month))
    #print(month)
    #[[month1[int(row[0].split('-')[1]) - 1].append(float(row[-1])) for row in␣
↪data if row[-1] != ''] for i in range(12)]
    #month = []
    [[month[int(row[0].split('-')[1])-1].append(float(row[-1])) for row in data␣
↪if row[-1] !=''] for i in range(12)]
    #print(month[4])
    #print(len(month))
    return month

def show_boxplot_per_date(month : str):
    birth = ChangedTemperaturesOnMyBirthday()
    birth.read_data()
    data = birth.data
    day =[]
    [day.append([]) for i in range(31)]
    [day[int(i[0].split('-')[2])-1].append(float(i[-1])) for i in data if i[-1]␣
↪!='' if i[0].split('-')[1]==month]
    plt.style.use('ggplot')
    plt.figure(figsize=(10,5),dpi=300)
    plt.boxplot(day, showfliers=False)
    plt.show()
```

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