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# How to plot a smooth line with Matplotlib in Python

Plotting a smooth line with <u>Matplotlib</u> interpolates data to remove sharp curves and creates a new plot with the interpolated data.

USE scipy.interpolate.make interp spline TO PLOT A SMOOTH LINE

Call  $\underline{\text{numpy.linspace(start, stop, num)}}$  to create an range of  $\underline{\text{num equally-spaced}}$  numbers between start and  $\underline{\text{stop. use }}$   $\underline{\text{scipy.interpolate.make interp }}$   $\underline{\text{spline}}(\underline{x},\underline{y})$  to create a  $\underline{\text{scipy.interpolate.BSpline}}$  object from the data, where  $\underline{x}$  and  $\underline{y}$  are both  $\underline{\text{NumPy arrays}}$ . Call  $\underline{\text{scipy.interpolate.BSpline}}(\underline{\text{new }}\underline{x})$  on this  $\underline{\text{scipy.interpolate.BSpline}}$  object to get an array of  $\underline{y}$ -values that correspond to the  $\underline{\text{new }}\underline{x}$ -values. Use  $\underline{\text{matplotlib.pyplot.plot}}(\underline{x},\underline{y})$  to plot the  $\underline{\text{new data values.}}$ 

```
x = np.array([1, 2, 3, 4])
y = np.array([75, 0, 25, 100])
plt.plot(x, y)
ORIGINAL_PLOT.PNG
```

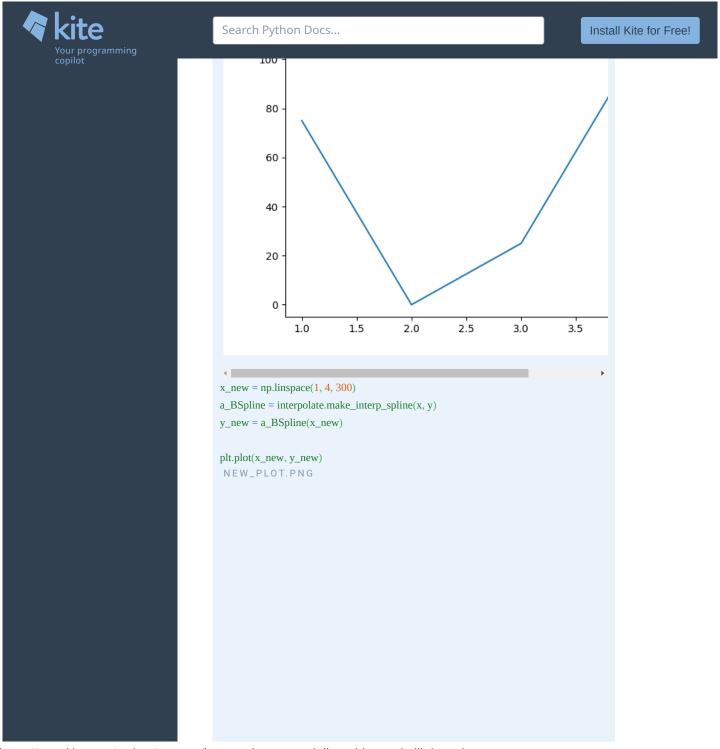
#### WANT TO CODE FASTER?

```
import os
import sys

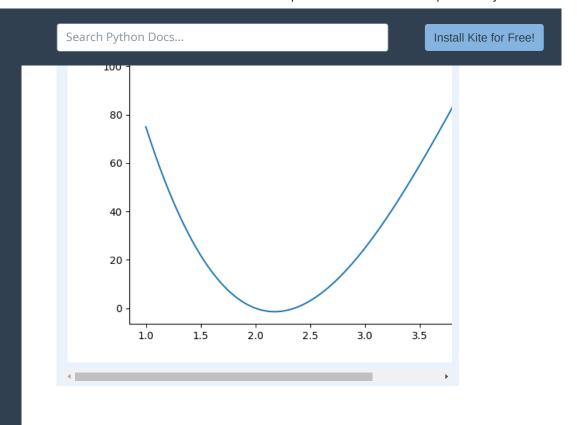
def count_py_files_in_repos(dirname):
    if os.path.exists(os.path.join(dirname, '.git')):
    count = 0
    for root, dirs, files in os.walk(dirname):
        count += len([f for f in files if f.endswith()])
```

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