

tmp

July 29, 2020

```
import ipywidgets as widgets
from ipywidgets import interact, interact_manual
```

```
x = np.random.randn(1000)

@interact
def f(n=50):
    return x[:n]
```

```
↳ -----
↳ last)

NameError                                Traceback (most recent call↳
<ipython-input-2-923abab785a8> in <module>
----> 1 x = np.random.randn(1000)
      2
      3 @interact
      4 def f(n=50):
      5     return x[:n]

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

```
import numpy as np
```

```
x = np.random.randn(1000)

@interact
def f(n=50):
    return x[:n]
```

```
interactive(children=(IntSlider(value=50, description='n', max=150, min=-50), Output()), _dom_
```

```
import matplotlib.pyplot as plt
```

```
x = np.random.randn(1000)
```

```
@interact
```

```
def f(n=50):  
    plt.figure()  
    plt.plot(x[:n])  
    plt.show()
```

```
interactive(children=(IntSlider(value=50, description='n', max=150, min=-50), Output()), _dom_
```

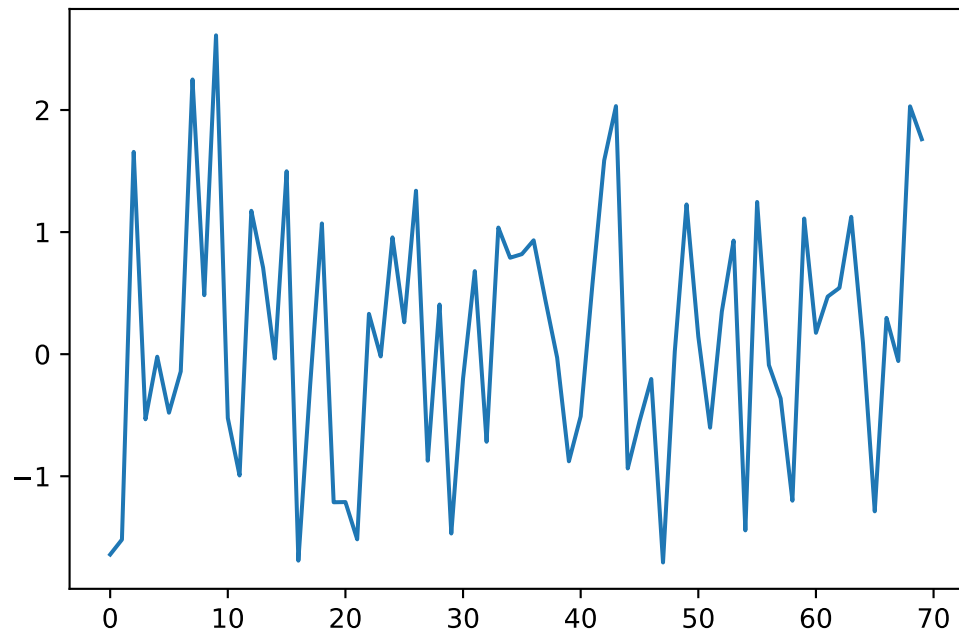
```
x = np.random.randn(1000)
```

```
@interact
```

```
def f(n=50):  
    plt.figure()  
    plt.plot(x[:n])  
    plt.show()  
    return
```

```
interactive(children=(IntSlider(value=50, description='n', max=150, min=-50), Output()), _dom_
```

```
f(70)
```



```
import matplotlib.pyplot as plt
```

```
%matplotlib widget
```

```
plt.plot([4, 2, 6])
```

Canvas(toolbar=Toolbar(toolitems=[('Home', 'Reset original view', 'home', 'home'), ('Back', 'B

[<matplotlib.lines.Line2D at 0x7f8fcb1ee820>]

```
%matplotlib notebook
from ipywidgets import *
import numpy as np
import matplotlib.pyplot as plt

x = np.linspace(0, 2 * np.pi)
fig = plt.figure()
ax = fig.add_subplot(1, 1, 1)
line, = ax.plot(x, np.sin(x))

def update(w = 1.0):
    line.set_ydata(np.sin(w * x))
    fig.canvas.draw_idle()

interact(update);
```

Warning: Cannot change to a different GUI toolkit: notebook. Using widget instead.

Canvas(toolbar=Toolbar(toolitems=[('Home', 'Reset original view', 'home', 'home'), ('Back', 'B

interactive(children=(FloatSlider(value=1.0, description='w', max=3.0, min=-1.0), Output()), _c

```
pass
```

```
%matplotlib widget
from ipywidgets import *
import numpy as np
import matplotlib.pyplot as plt

x = np.linspace(0, 2 * np.pi)
fig = plt.figure()
ax = fig.add_subplot(1, 1, 1)
line, = ax.plot(x, np.sin(x))
```

```
def update(w = 1.0):
    line.set_ydata(np.sin(w * x))
    fig.canvas.draw_idle()
```

```
interact(update);
```

```
Canvas(toolbar=Toolbar(toolitems=[('Home', 'Reset original view', 'home', 'home'), ('Back', 'B
```

```
interactive(children=(FloatSlider(value=1.0, description='w', max=3.0, min=-1.0), Output()), _c
```

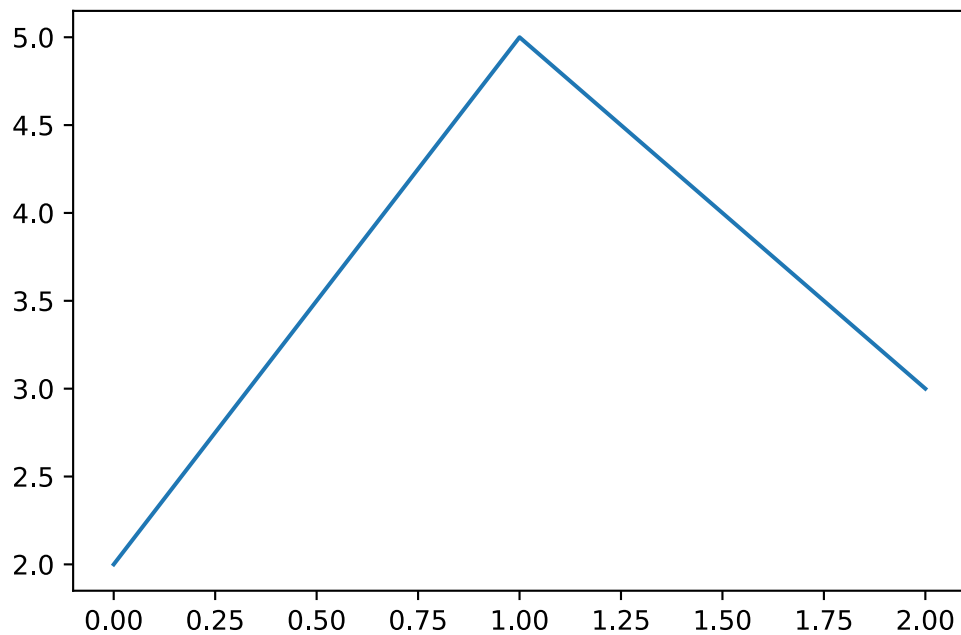
```
%matplotlib widget
plt.figure()
plt.plot([2, 5, 3])
plt.show()
```

```
Canvas(toolbar=Toolbar(toolitems=[('Home', 'Reset original view', 'home', 'home'), ('Back', 'B
```

```
!jupyter lab --version
```

2.2.2

```
%matplotlib inline
plt.figure()
plt.plot([2, 5, 3])
plt.show()
```



```
%matplotlib widget
plt.figure()
plt.plot([2, 6, 5, 4, 3])
plt.show()
```

Canvas(toolbar=Toolbar(toolitems=[('Home', 'Reset original view', 'home', 'home'), ('Back', 'B

```
from bokeh.plotting import figure, output_file, output_notebook, show, save

#output_file('test.html')
output_notebook
plot = figure()
plot.line([1, 2, 3, 4, 5], [6, 7, 2, 4, 5], line_width=2)
show(plot)
```