

```
[13] %matplotlib inline
import matplotlib.pyplot as plt
import numpy as np
```

Lazy, importing from build directory instead of using `pip install -e .`

```
[1] import sys
sys.path.append('/Users/henryiii/git/fitting/goofit/build-py3')
```

```
[2] import goofit
```

```
[3] x = goofit.Variable('x', -10, 10)
```

Make data in Numpy

```
[5] data = np.random.normal(1,2,100000)
data = data[(data > -10) | (data < 10)]
```

```
[6] dataset = goofit.UnbinnedDataSet(x)
dataset.from_numpy([data])
```

```
[7] mean = goofit.Variable('mean', 0, -10, 10)
sigma = goofit.Variable('sigma', 1, 0, 5)
gauss = goofit.GaussianPdf('gauss', x, mean, sigma)
```

```
[8] gauss.fitTo(dataset)
```

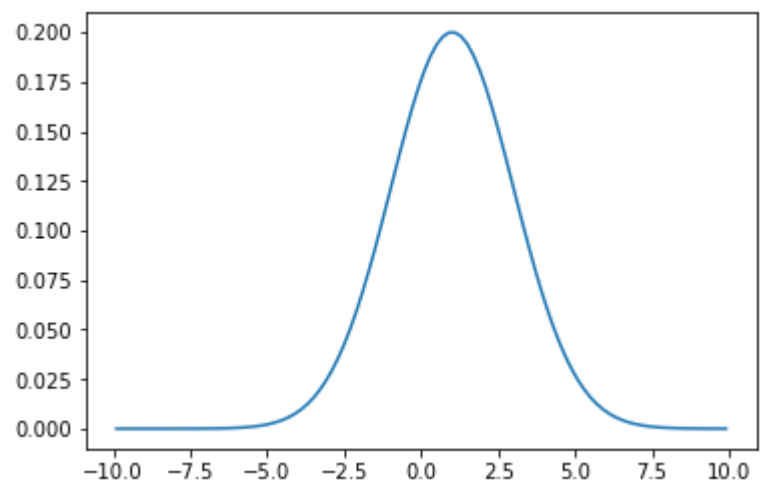
```
[9] print(mean)
print(sigma)
```

```
mean: 1.00494 +/- 0.00445894 [-10, 10] GooFit index: 0 Fitter index: 0
sigma: 1.9941 +/- 0.00315295 [0, 5] GooFit index: 1 Fitter index: 1
```

Plotting

```
[10] gds = gauss.makeGrid()  
      gauss.setData(gds)  
      pts = gauss.evaluateAtPoints(x)
```

```
[14] plt.plot(gds.to_numpy().flatten(), pts);
```



```
[15]
```