

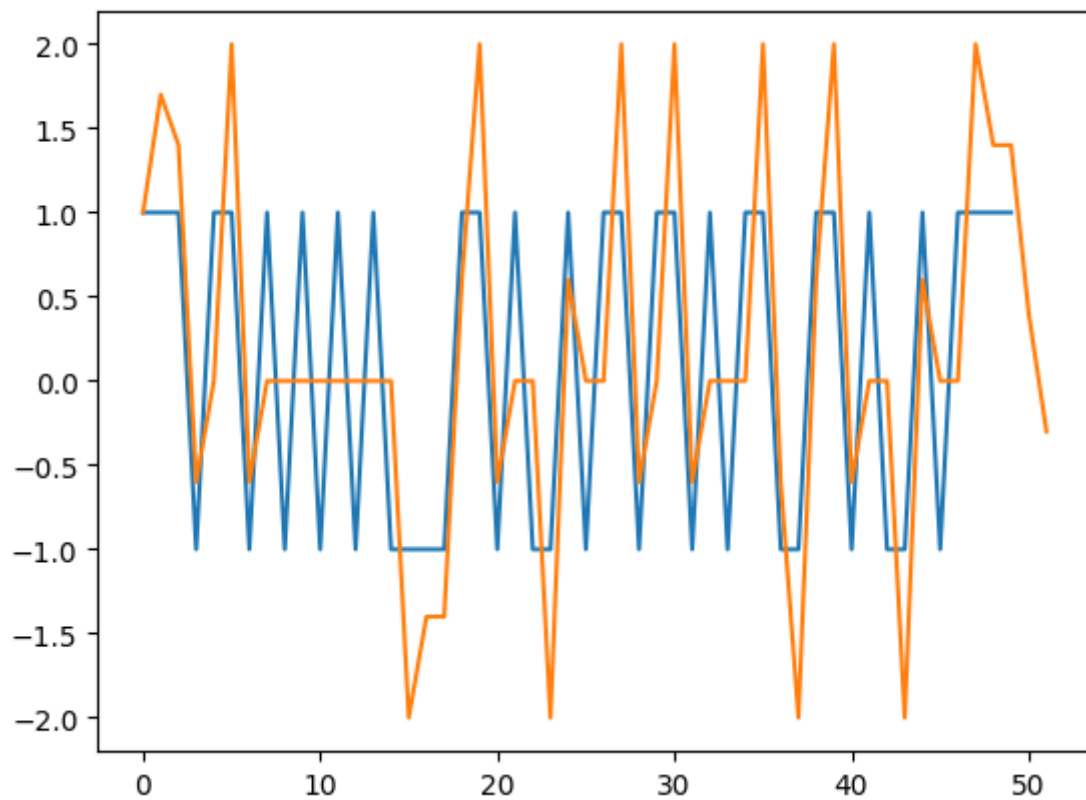
```
In [36]: using DSP
         using PyPlot
```

```
In [37]: # Generate a signal u of length m = 50, with each entry a random value t
         hat is either -1 or +1
         u = rand([1, -1], 50)
```

```
Out[37]: 50-element Array{Int64,1}:
          1
          1
          1
         -1
          1
          1
         -1
          1
         -1
          1
         -1
          1
         -1
          1
          ⋮
          1
          1
         -1
          1
         -1
         -1
          1
         -1
          1
          1
          1
          1
```

```
In [38]: c = [1, 0.7, -0.3]
y = conv(c, u)

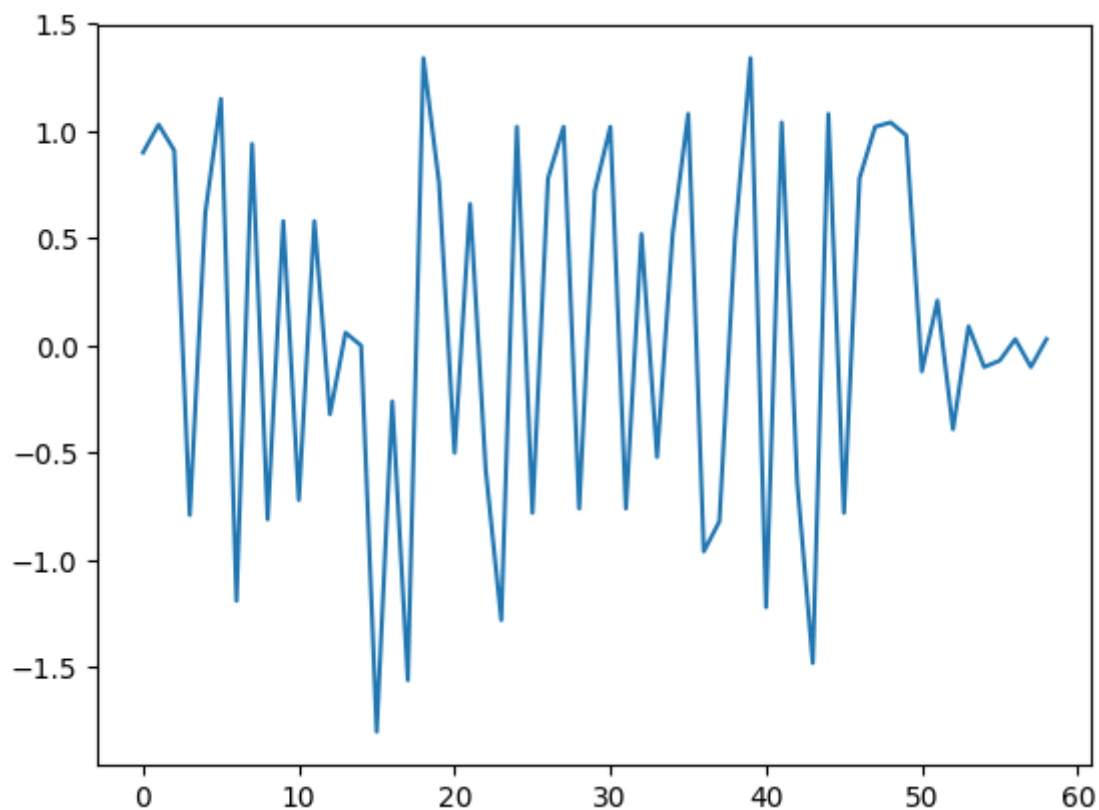
# Plot u and y
plot(u) # Blue Graph
plot(y) # Orange Graph
```



```
Out[38]: 1-element Array{PyCall.PyObject,1}:
PyObject <matplotlib.lines.Line2D object at 0x7f3c0e2cbd90>
```

```
In [39]: h = [0.9, -0.5, 0.5, -0.4, 0.3, -0.3, 0.2, -0.1]
z = conv(h , y)

# Plot for z = h * y
plot(z)
```



```
Out[39]: 1-element Array{PyCall.PyObject,1}:
PyObject <matplotlib.lines.Line2D object at 0x7f3c0e249cd0>
```

```
In [ ]:
```