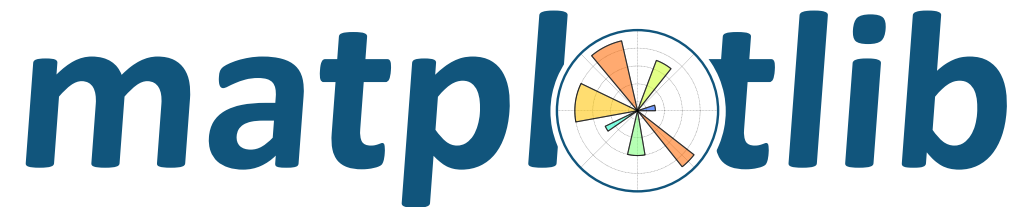


We're updating the default styles for Matplotlib 2.0

Learn what to expect in the [new updates](#)



Fork me on GitHub

[home](#) | [examples](#) | [gallery](#) | [pyplot](#) | [docs](#) » [Matplotlib Examples](#) » [mplot3d Examples](#) »

[previous](#) | [next](#) | [modules](#) | [index](#)

mplot3d example code: subplot3d_demo.py

([Source code](#), [png](#), [hires.png](#), [pdf](#))

Depsy 100th percentile

Travis-CI: build passing

Related Topics

Documentation overview

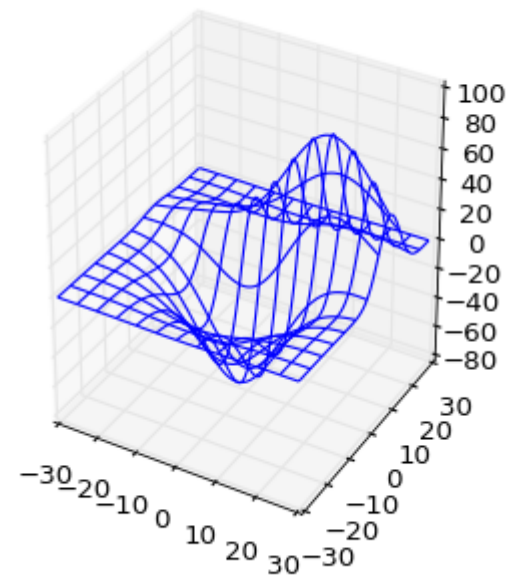
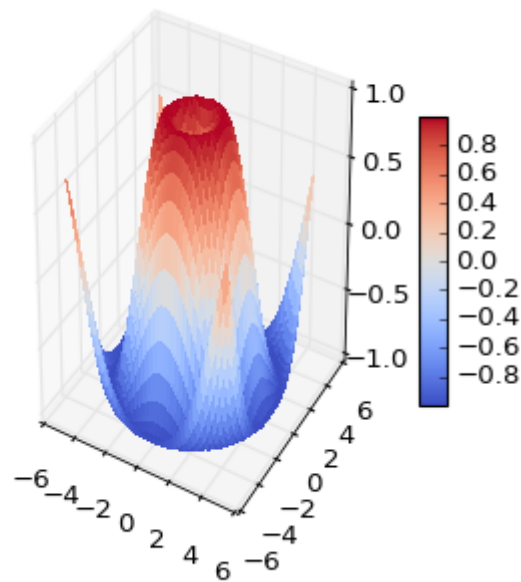
- [Matplotlib Examples](#)
 - [mplot3d Examples](#)
 - Previous: [mplot3d example code: scatter3d_demo.py](#)
 - Next: [mplot3d example code: surface3d_demo.py](#)

This Page

[Show Source](#)

Quick search

forms or a module, class
ne.



```
from mpl_toolkits.mplot3d.axes3d import Axes3D
import matplotlib.pyplot as plt

# imports specific to the plots in this example
import numpy as np
from matplotlib import cm
from mpl_toolkits.mplot3d.axes3d import get_test_data

# Twice as wide as it is tall.
fig = plt.figure(figsize=plt.figaspect(0.5))

#---- First subplot
ax = fig.add_subplot(1, 2, 1, projection='3d')
X = np.arange(-5, 5, 0.25)
Y = np.arange(-5, 5, 0.25)
X, Y = np.meshgrid(X, Y)
R = np.sqrt(X**2 + Y**2)
Z = np.sin(R)
```

```
surf = ax.plot_surface(X, Y, Z, rstride=1, cstride=1, cmap=cm.coolwarm,  
                      linewidth=0, antialiased=False)  
ax.set_zlim3d(-1.01, 1.01)  
  
fig.colorbar(surf, shrink=0.5, aspect=10)  
  
#---- Second subplot  
ax = fig.add_subplot(1, 2, 2, projection='3d')  
X, Y, Z = get_test_data(0.05)  
ax.plot_wireframe(X, Y, Z, rstride=10, cstride=10)  
  
plt.show()
```

Keywords: python, matplotlib, pylab, example, codex (see [Search examples](#))

© Copyright 2002 - 2012 John Hunter, Darren Dale, Eric Firing, Michael Droettboom and the matplotlib development team; 2012 - 2014 The matplotlib development team. Last updated on Jun 18, 2016. Created using [Sphinx](#) 1.3.5.