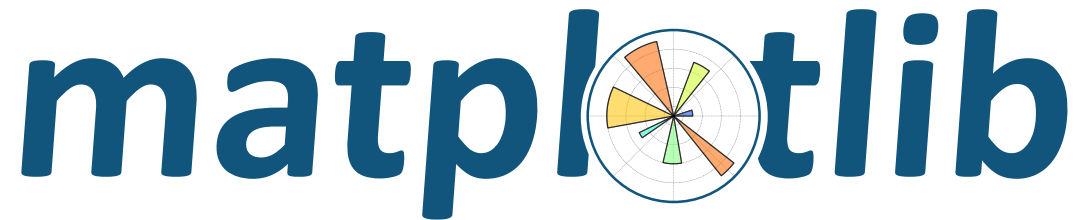**We're updating the default styles for Matplotlib 2.0**

Learn what to expect in the **new updates**

matplotlib

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home | examples | gallery | pyplot | docs » Matplotlib Examples »

mplot3d Examples »

mplot3d example code: scatter3d_demo.py

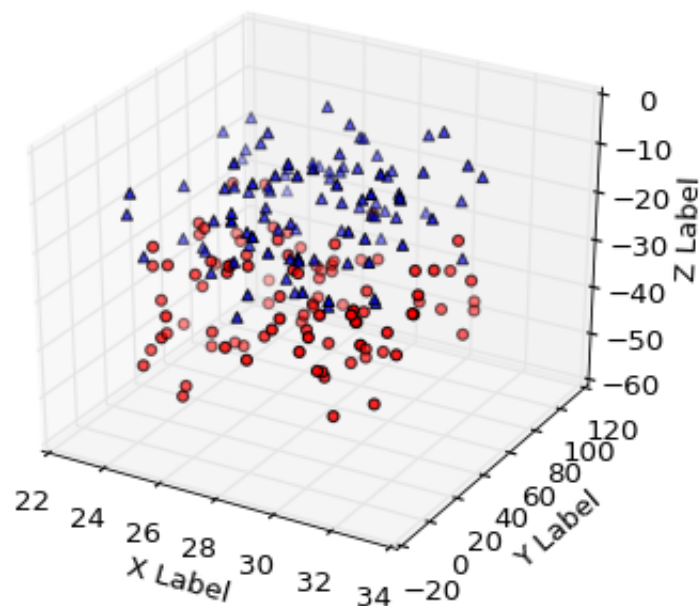(Source code, png, hires.png, pdf)

Depsy | 100th percentile

Travis-CI: build error

Related Topics

Documentation overview

- Matplotlib Examples
  - mplot3d Examples
    - Previous: mplot3d example code: rotate_axes3d_demo.py
    - Next: mplot3d example code: subplot3d_demo.py

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```python
import numpy as np
from mpl_toolkits.mplot3d import Axes3D
import matplotlib.pyplot as plt


def randrange(n, vmin, vmax):
    return (vmax - vmin)*np.random.rand(n) + vmin

fig = plt.figure()
ax = fig.add_subplot(111, projection='3d')
n = 100
for c, m, zl, zh in [('r', 'o', -50, -25), ('b', '^', -30, -5)]:
    xs = randrange(n, 23, 32)
    ys = randrange(n, 0, 100)
    zs = randrange(n, zl, zh)
    ax.scatter(xs, ys, zs, c=c, marker=m)
```

```
ax.set_xlabel('X Label')
ax.set_ylabel('Y Label')
ax.set_zlabel('Z Label')

plt.show()
```

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