



Code



In [5]:

```
import numpy as np

def sample_spherical(npoints, ndim=3)
    vec = np.random.randn(ndim, npoin
    vec /= np.linalg.norm(vec, axis=0
    return vec
```

In [6]:

```
from matplotlib import pyplot as plt
from mpl_toolkits.mplot3d import axes

phi = np.linspace(0, np.pi, 20)
theta = np.linspace(0, 2 * np.pi, 40)
x = np.outer(np.sin(theta), np.cos(phi)
y = np.outer(np.sin(theta), np.sin(phi)
z = np.outer(np.cos(theta), np.ones_l

xi, yi, zi = sample_spherical(100)

fig, ax = plt.subplots(1, 1, subplot_
ax.plot_wireframe(x, y, z, color='k',
ax.scatter(xi, yi, zi, s=100, c='r',
plt.show()
```

