



deeplearning.ai

Basics of Neural Network Programming

A note on python/
numpy vectors

Python Demo

Python / numpy vectors

```
import numpy as np
```

```
a = np.random.randn(5)
```

这里说的是：np.random.randn(5)是一个很奇怪的rank one array
不要用它：
因为a的transpose = a
所以：a*a.T = 一个数字（而不是一个向量）

```
a = np.random.randn((5,1))
```

column vector
a.shape = (5,1)

```
a = np.random.randn((1,5))
```

row vector
a.shape=(1,5)

```
assert(a.shape == (5,1))
```

确认一致