In [1]:

```
import numpy as np
```

In [2]:

```
data = np.random.normal(0, 0.01, (20000, 3))
```

In [3]:

```
data.shape
```

Out[3]:

```
(20000, 3)
```

In [4]:

```
np.random.shuffle(data)
```

In [5]:

```
num_validation_samples = 10000
```

In [6]:

```
validation_data = data[:num_validation_samples]
```

In [7]:

```
data = data[num_validation_samples:]
```

In [8]:

```
validation_data.shape, data.shape
```

Out[8]:

```
((10000, 3), (10000, 3))
```

In [9]:

```
training_data = data[:]
```

In [10]:

```
training_data.shape
```

Out[10]:

```
(10000, 3)
```

在训练集上训练模型,在验证集上评估模型,调节模型,重新训练并评估,再调节...

In [ ]:

```
# model.train(training_data)
# val_score = model.evaluate(validation_data)
```

在调节好参数后,在训练集从头开始训练最终模型,在测试集上评估最终模型

In [11]:

```
# model.train(np.concatenate([training_data, validation_data]))
# test_score = model.evaluate(test_data)
```

In [ ]:

```

```