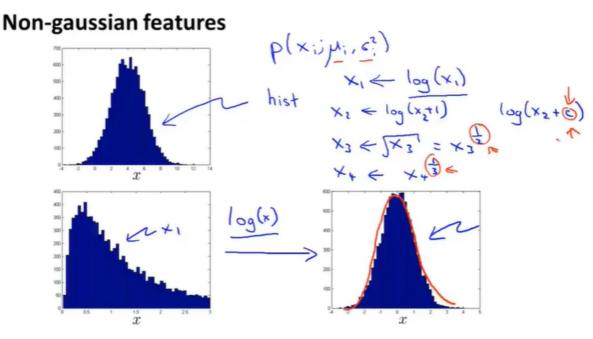
第一步: 先将数据进行一些处理, 让它看起来像是高斯分布。



第二步:进行**误差分析**,先训练出一个模型,然后在一组交叉验证集上找出出错的样本,尝试一些其他特征,看看能否纠正这些错误。

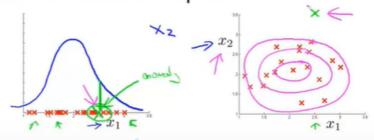
## Error analysis for anomaly detection

Want p(x) large for normal examples x.

p(x) small for anomalous examples x.

Most common problem:

p(x) is comparable (say, both large) for normal and anomalous examples



逐个加入变量,直到降低了异常样本的p(x)值.

## 选择特征明显的特征值

## > Monitoring computers in a data center

- Choose features that might take on unusually large or small values in the event of an anomaly.
  - $\rightarrow x_1$  = memory use of computer
  - $\Rightarrow x_2$  = number of disk accesses/sec
  - $\rightarrow x_3$  = CPU load  $\leftarrow$
  - $\rightarrow x_4$  = network traffic  $\leftarrow$