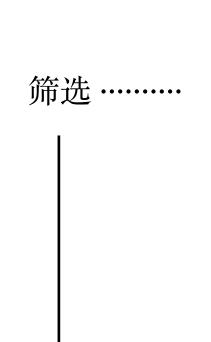
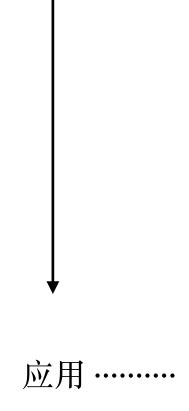
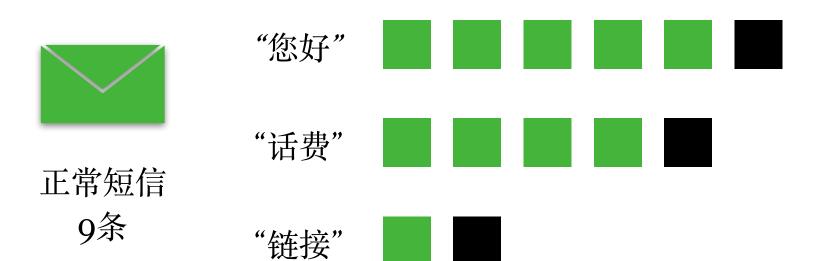
4. 总结



学习





P(正常) = 0.75



$$P("您好"|正常) = \frac{5+1}{16+4} = \frac{6}{20}$$

$$P("话费"|正常) = \frac{4+1}{16+4} = \frac{5}{20}$$

$$P("链接"|正常) = \frac{1+1}{16+4} = \frac{2}{20}$$

$$P("验证码"|正常) = \frac{6+1}{16+4} = \frac{7}{20}$$



垃圾短信 3条

P(垃圾) = 0.25



"验证码"

$$P("您好"|垃圾) = \frac{2+1}{8+4} = \frac{3}{12}$$

$$P("话费"|垃圾) = \frac{1+1}{8+4} = \frac{2}{12}$$

$$P("链接"|垃圾) = \frac{5+1}{8+4} = \frac{6}{12}$$

$$P("验证码"|垃圾) = \frac{0+1}{8+4} = \frac{1}{12}$$

"验证码链接链接链接"



 $P(正常) \times P("验证码"|正常) \times P("链接"|正常)^3 = 0.75 \times \frac{7}{20} \times (\frac{2}{20})^3 = 0.0002625$ "验证码链接链接链接"为正常短信的概率

 $P(垃圾) \times P("验证码"|垃圾) \times P("链接"|垃圾)³ = 0.25 \times \frac{1}{12} \times (\frac{6}{12})^3 = 0.0026$

"验证码链接链接链接"为垃圾短信的概率