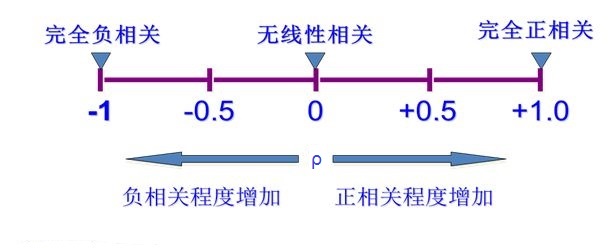
一、皮尔逊相关系数计算公式



编程实现公式：

sum\_xy = 0

sum\_x = 0

sum\_y = 0

sum\_xx = 0

sum\_yy = 0

n = 0

for (x, y) in some\_condition:

n += 1

sum\_xy += x \* y

sum\_x += x

sum\_y += y

sum\_xx += pow(x, 2)

sum\_yy += pow(y, 2)

if n == 0:

return 0

#皮尔逊相关系数计算公式

denominator = sqrt(sum\_xx - pow(sum\_x, 2) / n) \* sqrt(sum\_yy - pow(sum\_y, 2) / n)

if denominator == 0:

return 0

else:

numerator = sum\_xy - (sum\_x \* sum\_y) / n

return numerator / denominator