Example 2: How strong is the linear relationship between the age of a driver and the distance the driver can see? A research firm (Last Resource, Inc., Bellefonte, PA) collected data on a sample of n = 30 drivers. What can you say about the relationship? what is likely to be X? → Easy to know?

Y? → interest!

$\widehat{Distance}_i = 576.6819 - 3.0068\ Age_i$

for each year old you can see 3.0068 (feet?/meters?/yard?...) less

if you were just born you should be able to see 576.6819 (?)

$Cov(Distance, Age) \doteq -1425.862$

$Cor(Distance, Age) \doteq -0.8012447.$