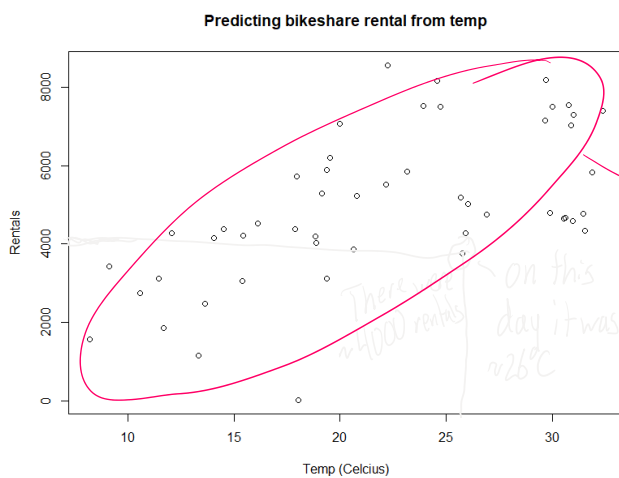


Visualizing Numerical Data - Scatterplots

What if we want to explore the relationship between two numerical variables.

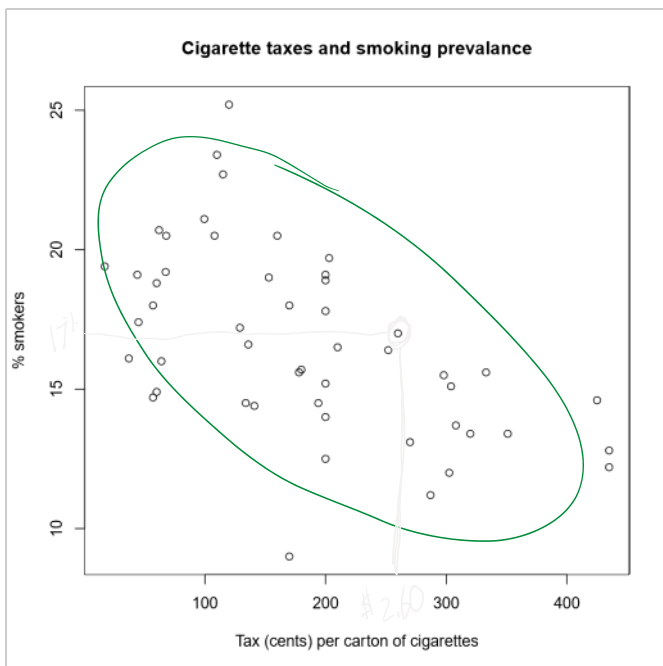
Two variables are correlated if changes in one variable correspond to changes in the other.



Bike share rentals are correlated with temperature.

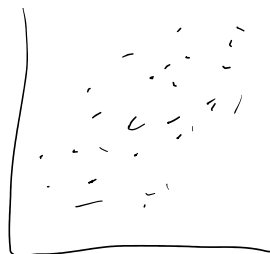
Higher temps correspond to higher bike rentals.
These two variables are positively correlated

Data { Day: 1/24, 2/14, 3/12, 4/21, 5/5, ...
Temp: -5°C 5C 15C 20C 23C
#Rentals: 1812 2424 3614 3248 4, ...

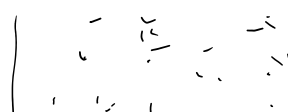


The relationship between % of smokers and the tax rate on cigarettes are negatively correlated.

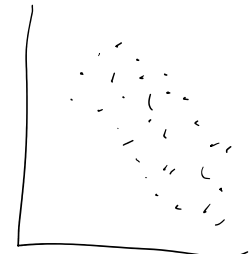
+ Correlation



Correlation near 0



- Correlation



Correlation near -1 or +1

