What is need for Visualization

* Data
* Algorithm
  + Data mining
  + Data analytics
* Computer
  + Run those algorithm
  + Data storage
* Humans
  + With a purpose/need to understand their data
  + Endowed with cognitive faculties, creative thought, intuition
  + Domain expertise
* Understanding of humans
  + Perception, cognitions, HCI issues
  + Experimentation with humans

Visualization

* Better understanding
* Explains
* Discover pattern