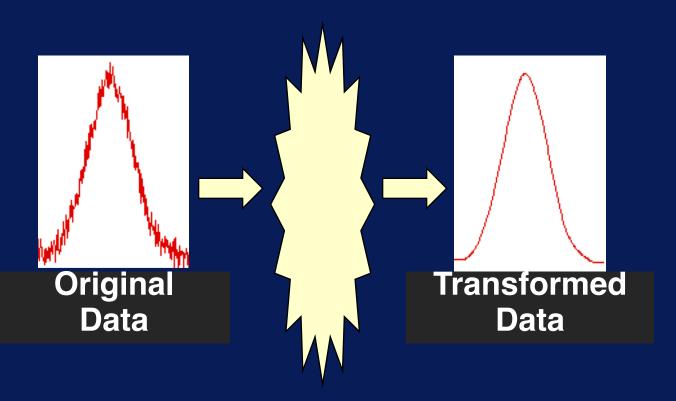
# Feature Transformation

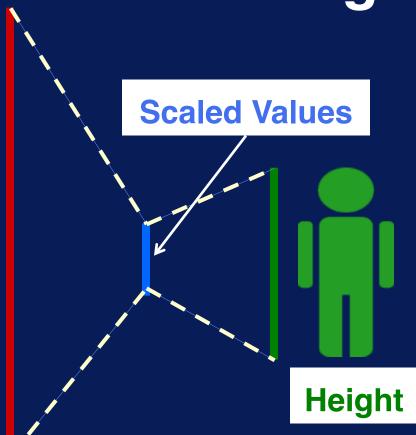
### After this video you will be able to...

- Articulate the purpose of feature transformation
- List three feature transformation operations
- Discuss when scaling is important

### **Feature Transformation**



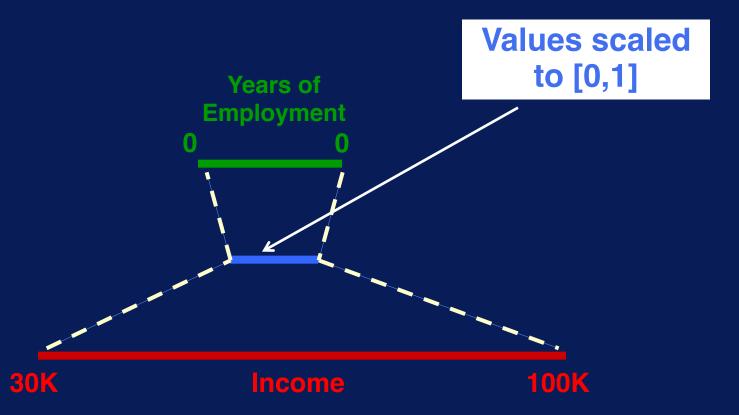
# Scaling



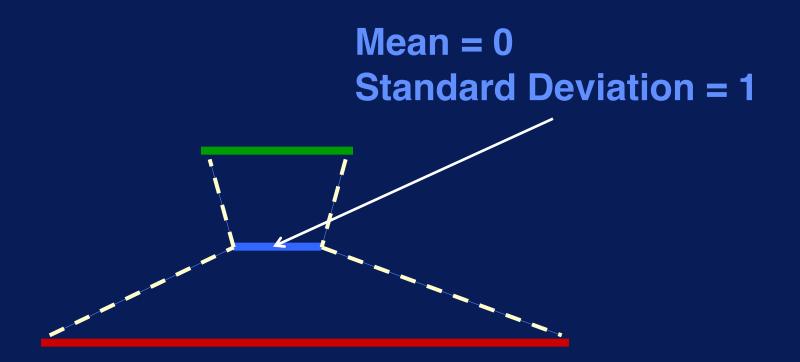


Weight

# Scaling to a Range



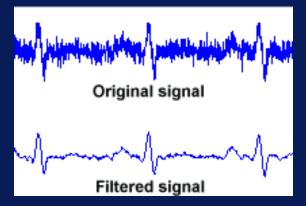
#### Zero-Normalization / Standardization

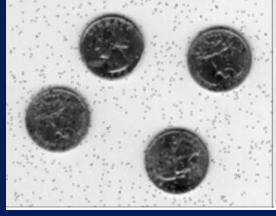


### **Filtering**

#### Filter noise from audio signal

Remove grainy appearance in images

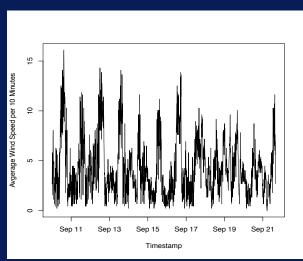




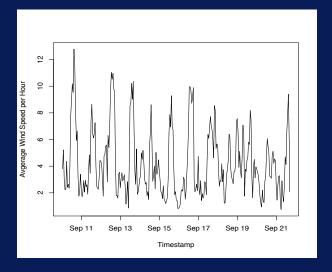


## Aggregation

Avg Wind Speed (every 10 minutes)



Avg Wind Speed (every 60 minutes)



### **Feature Transformation**

- What: Map feature values to new set of values
- Why: Have data in format suitable for analysis
- Caveat: Take care not to filter out important characteristics of data