Objectives: 1. Visualize Describe important aspects (Shape, center, variability, and unusual observations) of categorical and quantitue variables

> 2. Understand how simulation helps us make decisions involving a random process.

Topics Agenda

1. Introduce Project

2. Exploring data (Shipe size, ...) 3. Rindon Processes (Monty Hall problem)

4. Basic R SK.11s

5. Redfin R exercise

Project - Brief introduction:
- Think about topics - Pair up next class

Exploring Data (P.2)

1. Shape - is distribution symmetric, where is it centered, and how many peaks are there.

2. Center - where is the distribution centered on? What is a typical value?

3. Variability - How spread out or concentrated is the data? we often report this variation through standard deviation.

Book definition: Sd > A measure of variability of a guarantive Crude definition: any distance of our data from its mean

4. Unusual observations - Are there outliers which are very different from most observations.

Rundom Processes (P.3)

Random Process & Definitions Probability

Monty Hall Card Game - Boards Monty Hall Applet

Basics of R Redfin in R