

Wed: snow day

Friday

at 202-20155 W1-Wed

(Pg 1)

Focus
Review
Stemplots
Statcrunch
Homework

Review

Statistics is the science of learning from data

Cases are the objects described by a set of data

A Variable ~~is~~^{is a} characteristic of a case

A label is a variable used to uniquely distinguish cases

Categorical Variable - places a case into one of several groups

Quantitative variable - a variable that takes numerical values for which arithmetic operations are possible (eg adding averaging)

Ordinal categorical variables have a natural order

Nominal categorical variable in name only, no order

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The distribution of a variable tells us what values it takes and how often it takes these values

New

Exploratory data analysis

① when we study a data set we study each variable by itself

Then ② move on to study the relationships among the variables

For each of these steps we

(a) start with a graph ~~or~~ or graphs

(b) Then add numerical summaries
(mean, standard deviation, etc)

Graphs for single categorical variables

* bar graph } Shows
* pie chart } distribution

↳ must represent whole

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Graphs for single quantitative variables

Stem plot } Shows
Histogram } distribution

We will do stem plot today
And we will have time to work
on statCrunch

Handout ^{homework} ~~Lecture~~ 2 and explain example