

Stat 101: Lecture 2

Data

- Information
- Context is important
 - Who? What? When? Where?
 - Why? and How?

1

```
shelby AL 0 1 1 1 92 43 2004 0
sessions AL 1 1 2 1 100 43 2002 1
murkowski AK 1 1 2 1 68 34 2004 0
stevens AK 0 1 1 1 58 34 2002 0
kyl AZ 1 1 2 1 96 47 2000 1
mccain AZ 1 1 2 1 80 47 2004 0
timhutch AR 1 1 2 1 100 54 2002 1
lincoln AR 0 0 0 0 36 54 2004 1
boxer CA 0 0 0 0 0 51 2004 0
feinstei CA 0 0 0 0 4 51 2000 1
allard CO 1 1 2 1 100 44 2002 1
campbell CO 1 1 2 1 72 44 2004 0
dodd CT 0 0 0 0 4 52 2004 0
lieberma CT 0 0 0 0 20 52 2000 0
biden DE 0 0 0 0 16 52 2002 0
roth DE 1 1 2 1 64 52 2000 0
graham FL 0 0 0 0 8 48 2004 0
mack FL 1 1 2 1 88 48 2000 0
cleland GA 0 0 0 0 8 46 2002 1
coverdel GA 1 1 2 1 92 46 2004 0
```

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Who?

- Individual cases
 - Each row of a data table
 - Respondents
 - Subjects
 - Participants
 - Experimental units
 - U.S. Senators in 1999.

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What?

- Variables
 - Categorical variable
 - State
 - Quantitative variable
 - Degree of conservatism
 - Percent of vote

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Why?

- On February 12, 1999 the U.S. Senate voted on whether to remove a President (Clinton) based on articles of impeachment. Why did senators vote the way they did?

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When? Where? How?

- The data are available at www.amstat.org/publications/jse/datasets/impeach.dat
- A description of the when, where and how is given at www.amstat.org/publications/jse/datasets/impeach.txt

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