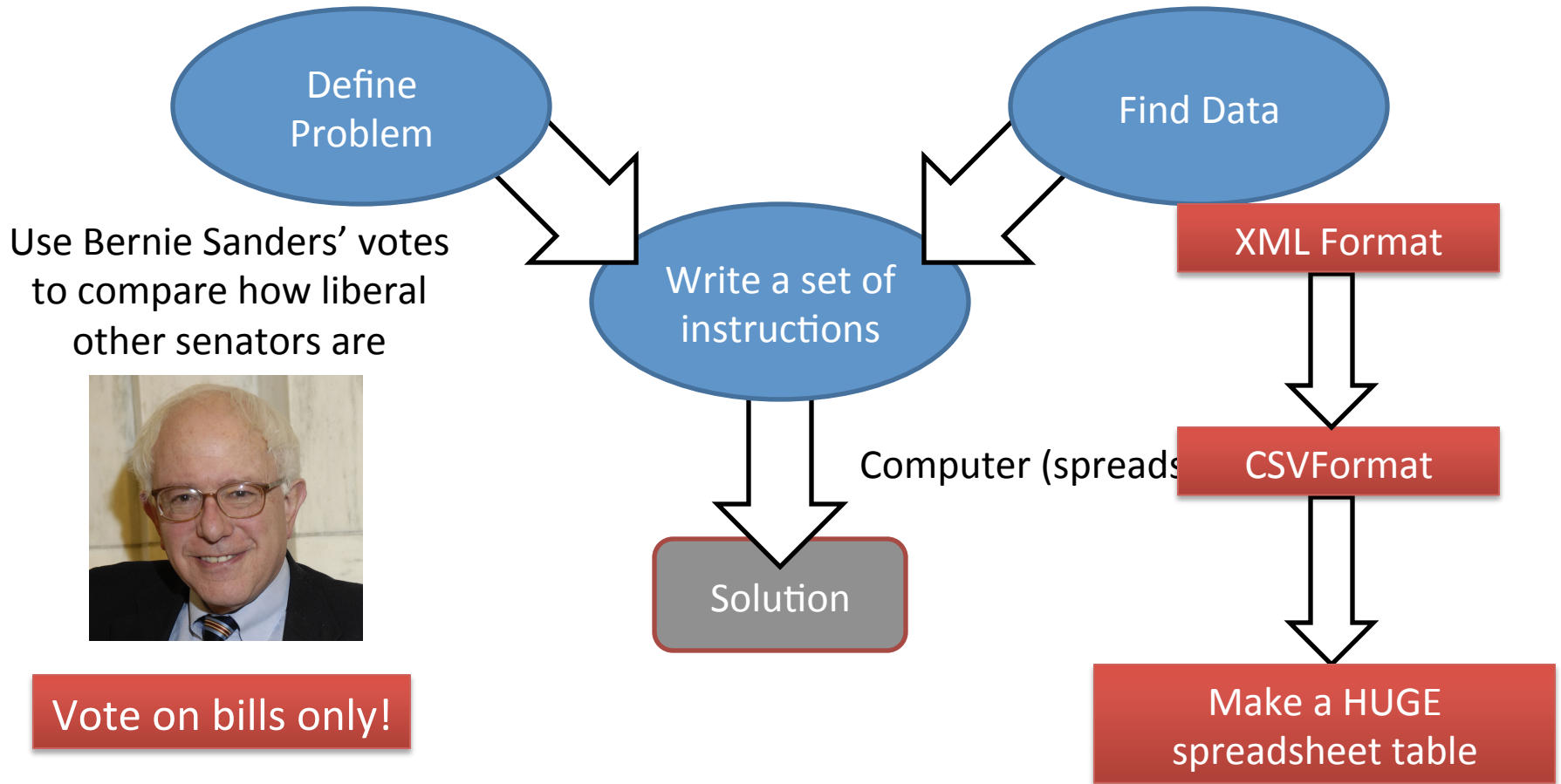


Ranking Senators w/ Bernie Sanders' Votes

Sep 22 2015

We've done this



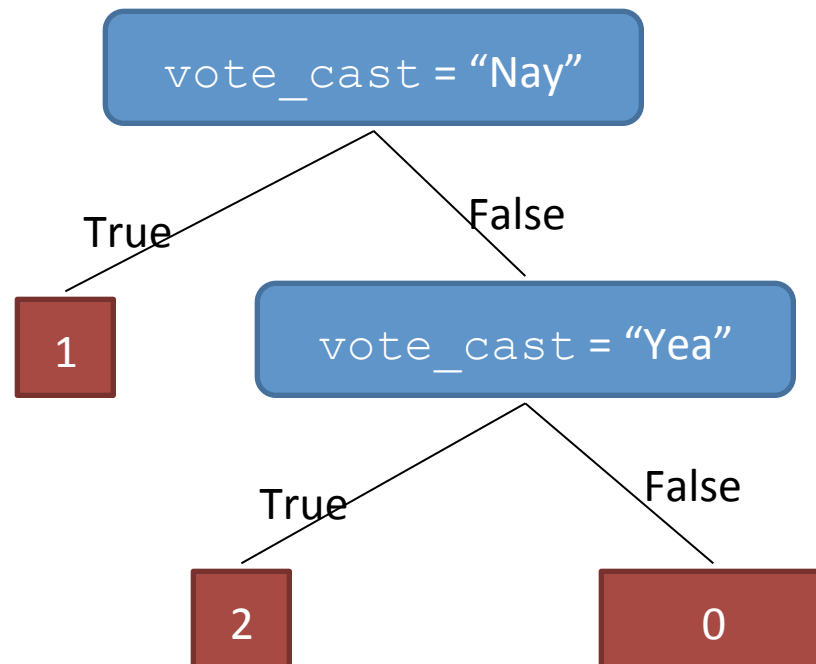
Last Class: Completed So Far

1. Open the spreadsheet from last class.
2. You should have 2401 rows (Task 3.7)
3. You should have columns through E.
4. You should have added `vote_id` column

Encoding data numerically: easier to process, esp. in spreadsheets

- Add a `numerical_vote` column in cell G1.
- Write a formula to output:
 - 1 if the senator voted `Nay`
 - 2 if the senator voted `Yea`
 - 0 for anything else

Decision Trees



1 if the senator voted Nay
2 if the senator voted Yea
0 otherwise

This Class: Summarize data

- For each senator
 - For each vote
 - What was vote?
- Organize in a table whose rows are senators and columns are vote-names
 - Row-column entry is a senator's vote
 - Row = all votes by senator
 - Column = all votes on this bill
- Do this with a pivot table

What is a pivot table good for?

Pivot table uses

- Restructure data (our use)
- Summarize data (more common use)
 - If our data was
salesperson, customer, itemSold, itemCount
 - A “salesperson x itemSold” table could show the **sum** of all sales of this item, or the **max** sale of this item, etc.

We did these things!

Find out what CSV is

XML Format

CSV Format

Make HUGE Table

Import the data we want into spreadsheet

Format the table to get what we want

See anything odd in the pivot table?

- Use `Format...Conditional Formatting` to color all blank cells **red**

See anything odd in the pivot table?

- Use `Format...Conditional Formatting` to color all blank cells **red**
- What happened to Booker, Chiesa, and Lautenberg?
- What about Kerry and Markey?

See anything odd in the pivot table?

- Use Home...Conditional Formatting to color all blank cells red
- Name csv_output RawData
- Name Sheet2 PivotTable

Now what?

Compare senators to Bernie



Activity 1-2

- Do Tasks 0 and 1

Are we done?

- We've got the similarity between any senator's voting record and Bernie's record...
- Isn't that what we were hoping to produce?
- Who is the least Bernie-like?
- What if we compared to *that* person instead?
- Homework suggests that there could be surprises...