

CENSUS

4.033

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Story 1: Benefits of cultural diversity

What is the story I want to tell?

- Research examining the impacts of being culturally diverse on a society have been generally positive
- Some parts of America are more culturally diverse than others
- Is this a good or a bad thing? How are we going to quantify the answer to this question? What is the trend like over the years?

Does the data exist?

What do I need?

4 Parameters: Income, education, low criminality and family stability

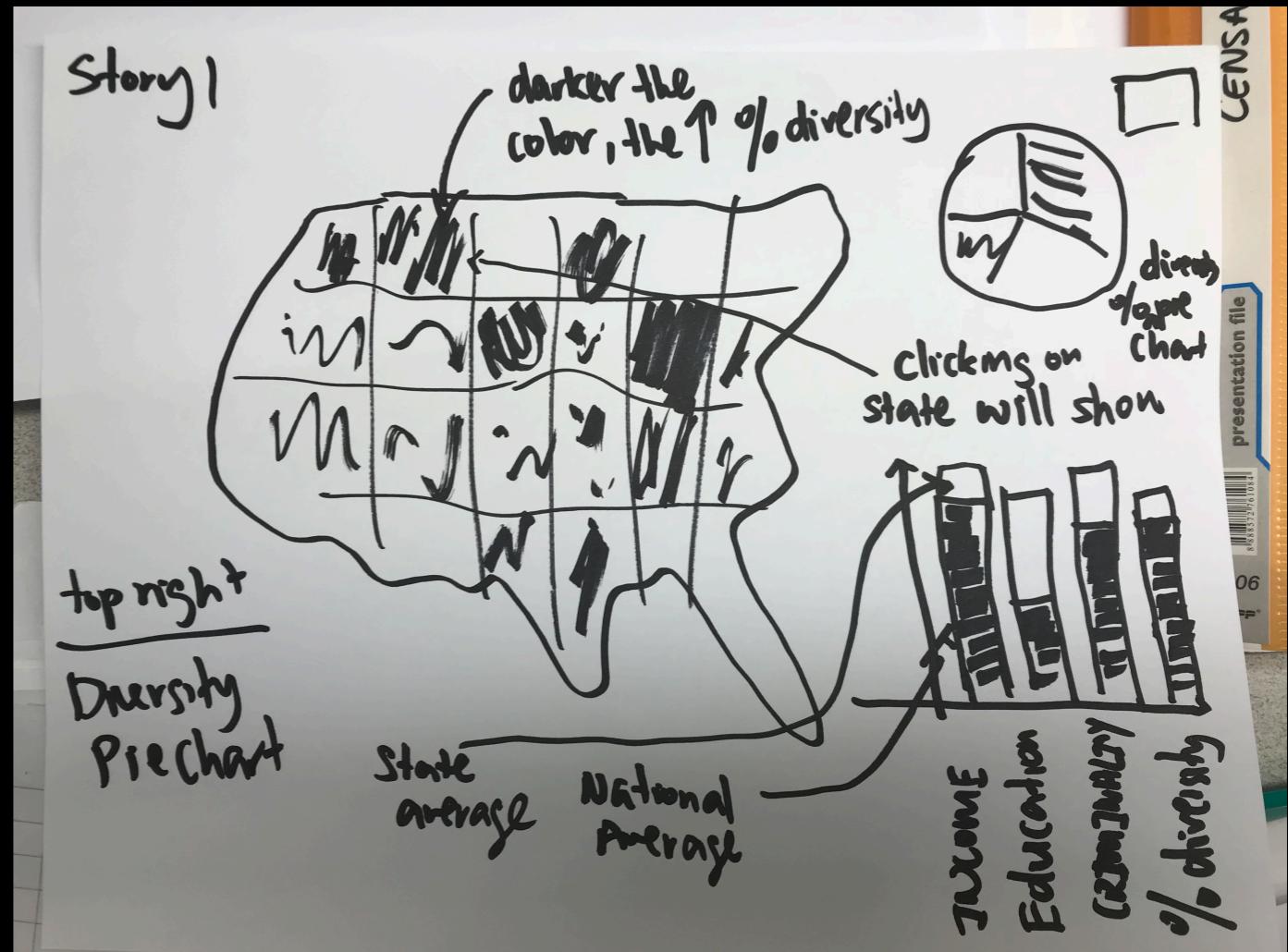
ACS 5 (2013)

- Populations of different ethnicities over a period of 5 years
- Income per capita
- Number of unemployed
- Number of people living in poverty aggregated by ethnicity

Story 1: Benefits of cultural diversity

How can the story be told?

- Intensity of colours on a map shows the extent of diversity in a particular state, aggregated at county level
- Clicking on a particular state (e.g. NY, CA) brings up visualisation of the 4 parameters, each normalised with respect to the general population.
- For example, compares median income of that particular state to America in general
- With state-specific and general % diversity to illustrate the effects of cultural diversity



Story 2: Driving vs walking

What is the story I want to tell?

- Richard McKenzie claimed (2016) that “walking can be more polluting than driving to work”
- Is this true?
- How about other forms of transport?

Does the data exist?

What do I need?

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- Commute time

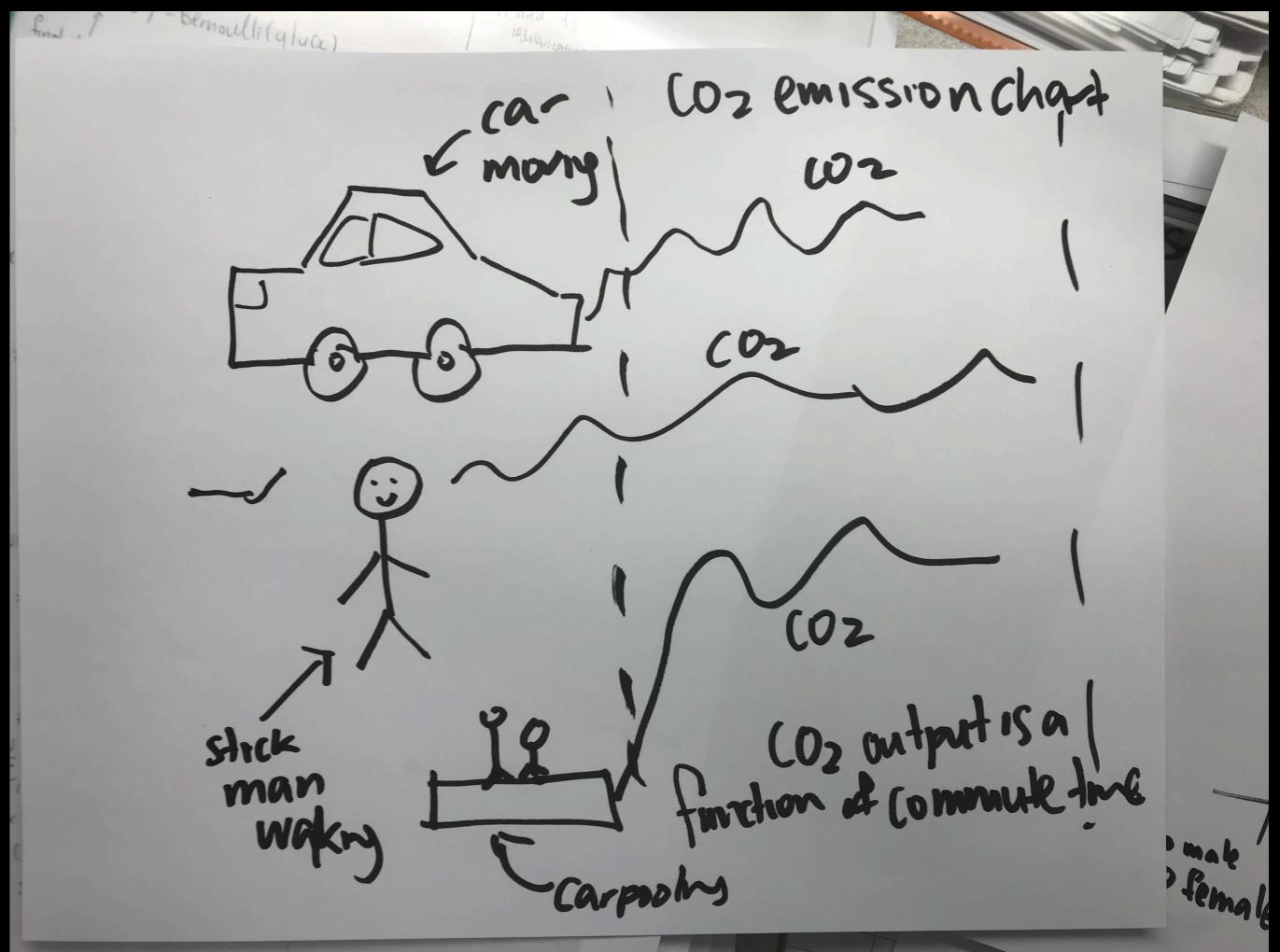
Elsewhere:

- <http://web.mit.edu/2.813/www/readings/DrivingVsWalking.pdf>

Story 2: Driving vs walking

How can the story be told?

- Car, stickman and carpool in motion
- CO₂ as a function of commute time, per Cohen's calculation
- CO₂ chart repeats, to simulate emission of gas



Story 3: Occupational Gender Inequality in America

What is the story I want to tell?

- The disparity in gender for certain occupations
- Example: How likely is an accountant to be male than female
- The extent of the disparity

Does the data exist?

What do I need?

ACS 5 (2013)

- Employment data aggregated by gender

Elsewhere:

- Population of males and females in different states

Story 3: Occupations in America by gender

How can the story be told?

- Lines extending vertically, with dots at either end.
- Solid and hollow dots represents number of males and females
- Line that connects each male/female dots illustrate the extent of the disparity
- Linear regression line to show how some occupations have a disproportioned number of a certain gender
- Each line will be highlighted for 5 seconds, with a short sentence describing the state of disparity for that particular occupation
- E.g. 30% of nurses are most likely to men than women. Something along that line

