PSC 400 SYRACUSE UNIVERSITY

DATA ANALYTICS FOR POLITICAL SCIENCE

INFERRING POPULATION CHARACTERISTICS

ASSIGNMENTS

- Review Exercise 1 due Thursday
- Problem Set 1 due Friday

ANOTHER "EXPERIMENT"

Variable	Description
chain	name of the fast-food restaurant chain
location	location of the restaurants (centralNJ, northNJ, PA, shoreNJ, southNJ)
wageBefore	wage before the minimum-wage increase
wageAfter	wage after the minimum-wage increase
fullBefore	number of full-time employees before the minimum-wage increase
fullAfter	number of full-time employees after the minimum-wage increase
partBefore	number of part-time employees before the minimum-wage increase
partAfter	number of part-time employees after the minimum-wage increase

- minwage.csv
- Effect of minimum wage increase in NJ (\$4.25 to \$5.05) on employment in fast food restaurants

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partBefore	number of part-time employees before the minimum-wage increase
partAfter	number of part-time employees after the minimum-wage increase

- What is the average wage in PA and NJ before the minimum wage increase?
- What is the average wage in PA and NJ after the minimum wage increase?

ANOTHER "EXPERIMENT"

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wageAfter	wage after the minimum-wage increase
fullBefore	number of full-time employees before the minimum-wage increase
fullAfter	number of full-time employees after the minimum-wage increase
partBefore	number of part-time employees before the minimum-wage increase
partAfter	number of part-time employees after the minimum-wage
	increase

 What is the proportion of full-time employees in PA and NJ before/after the minimum wage increase?

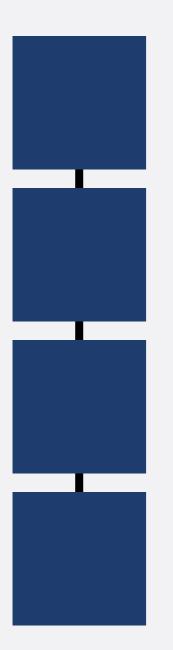
OBSERVATION

Data point



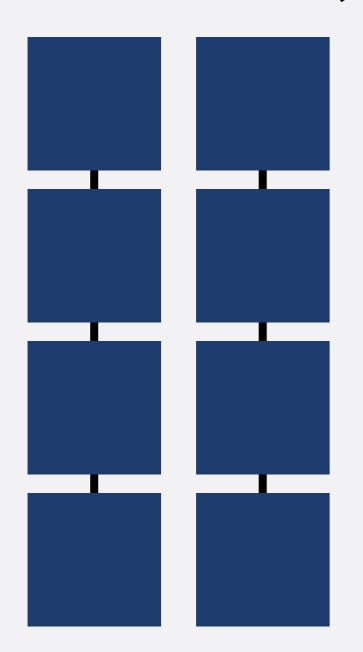
VECTOR

Vector (several data points)



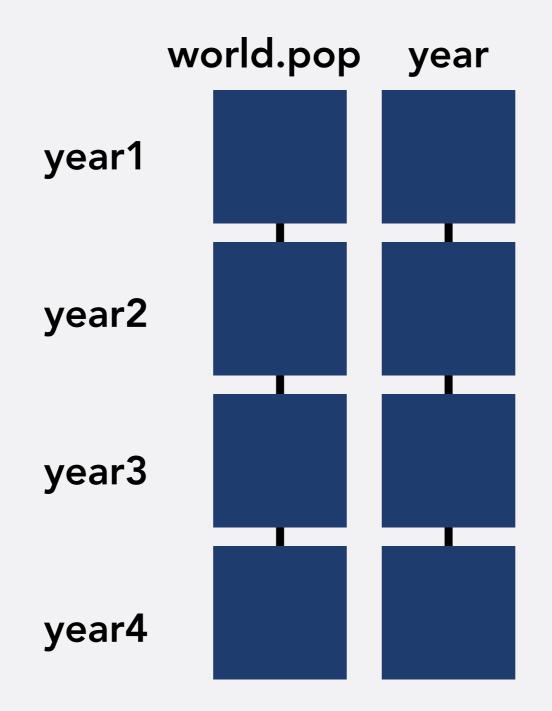
DATA FRAME

Data Frame (several vectors)



DATA FRAME

- Rows: Different observations/cases
- Columns: different variables



BES.CSV

variable	description
vote	respondent's vote intention in the EU referendum: "leave", "stay", "don't know", or "won't vote"
leave	identifies leave voters: 1=intends to vote "leave" or 0=intends to vote "stay"; (NA=either "don't know" or "won't vote")
education	respondent's highest educational qualification: 1=no qualifications, 2=general certificate of sec- ondary education (GCSE), 3=general certificate of education advanced level (GCE A level), 4=un- dergraduate degree, or 5=postgraduate degree; (NA=no answer)
age	respondent's age (in years)