Voter Turnout Project (Part I)

Aim: How do we write and use table methods and functions in order to analyze data about Voter Turnout?

Do Now

Click on the link for the Spreadsheet:

Voter Data 2020

Write two statements for each of the following:

I wonder....

I notice....

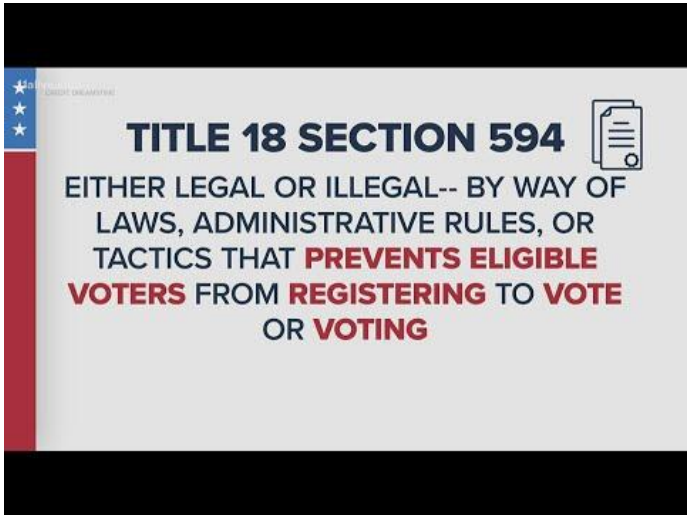
*This dataset is modified from US census website.

What is Voter Suppression?

Voter suppression is the act of preventing eligible people from voting or making it harder for them to vote or to register to vote.

In recent years, more than 400 anti-voter laws have been proposed in 48 states.

Why do you think these laws have been proposed?

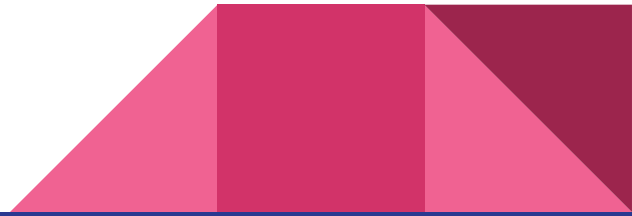


Voter Suppression 2020

Analyzing Data

In this project, we will be analyzing voter data from the US Census Bureau in order to investigate differences in voter turnout of people of different races in different states. We will use our investigations to make conclusions about possible instances of voter suppression and the need for laws and actions to prevent future voter suppression.

In Part I of the project, you will practice writing functions and applying table methods using the “voter-table.” This review of concepts will help you perform your own analysis in Part II.



Voter Turnout Code

Go to code.pyret.org and log in.

Then click on the link for the “Voter Turnout Project.”

Save a copy of the file and add your name to the file name.

Run the file.

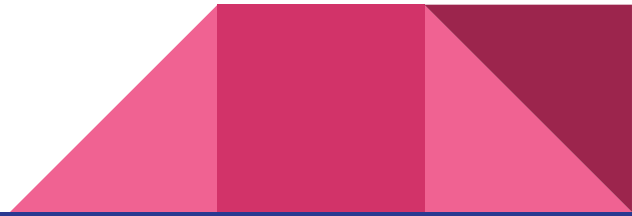
Enter the code for voter-table in the interactions area. What do you see?

Voter Turnout Project: Part I

In today's lesson, we will practice writing functions and applying table methods using the voter-table.

Follow the prompts for each section. Each student will create and submit their own code, but feel free to discuss the prompts with each other.

If you need help, refer to the code on the next few slides.



Reference List of Table Methods

<Table>.row-n(index)

<Table>.order-by(“Column”, Boolean)

<Table>.filter(Boolean function)

<Table>.build-column(“Column”, function)

Reference List of Data Displays

pie-chart(Table, “column”)

bar-chart(Table, “column”)

histogram(Table, “column”, bin width)

scatter-plot(Table, “label”, “column 1”, “column 2”)

Other Reference

random-rows(<Table>, sample size)

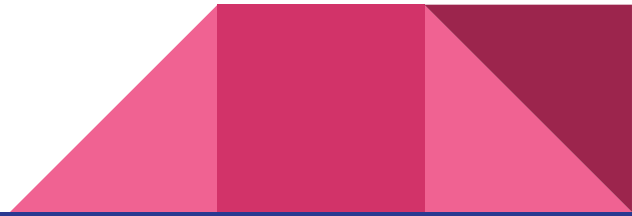
num-round(number)

Design Recipe for Writing Functions*

The design recipe has three parts:

1) Write a contract and purpose statement.
2) Write examples (on paper or in code)
3) Write the function.

* From bootstrapworld.com



Part II (Time Permitting)

In this part, you will analyze the data from the table to see if there are differences between voter turnout rates of people of different races in different states. You should look at different groups of states individually, smaller samples of states or all of the states.

Write your code in the definitions area. You can save different tables or comment out the code when not required. Refer to the google slides for specific directions.

Submit Your Code

Submit the link to your code.

- Go to **Publish** in your Pyret editor and copy the link.
  - Ctrl + C (PC) or ⌘ + C (Apple)
- Submit your link for your code on the form:

Voter Turnout Pyret Code Submission Form

Summary

In the next lesson, we will be investigating differences between voter turnout of different races in different states.

List at least two things you would like to investigate based on your data.