Nan	eDate	
	LAB 1B: Get the Picture? Response Sheet	
Dire	ctions: Record your responses to the lab questions in the spaces provided.	
Who	re'd we leave off	
Vari	able Types	
•	Is height a numerical or categorical variable? Why?	
•	Is gender a numerical or categorical variable? Why?	
•	List either the different categories or what you think the measured units are for height and	i
	gender.	
Whi	ch is which?	
	Use the code's output to help you complete the following:	
•	Write down 3 variables that you think are <i>categorical</i> variables and why.	

Data Structures

• What information does the str function output?

Write down 3 variables that you think are *numerical* variables and why.

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•	Were you able to correctly guess which variables were categorical and numeric? Which ones
	did you mislabel?

Visualizing data

Which function, either bargraph or histogram, is better at visualizing categorical variables?
 Which is better at visualizing numerical variables?

We have options

 Describe the distribution of weight. Make sure to describe the shape, center and spread of the distribution.

- How did including the option nint = 3 change the histogram?
- Does setting nint = 3 impact how you would describe the shape, center and spread?
- Try other values for nint. What value produced the best graph? Why?

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How often do people text & drive?

Make a graph that shows how often people in our data texted while driving	Make a g	graph tha	at shows	how often	people i	in our	data	texted	while	driving
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- What does the y-axis represent?
- What does the x-axis tell us?
- Would you say that *most* people *never* texted while driving? What does the word *most* mean?

• Approximately what percent of the people texted while driving for 20 or more days? (Hint: There's 13677 students in our data.)

Does texting and driving differ by gender?

• Write a sentence explaining how boys and girls differ when it comes to texting while driving.

• Would you say that most girls never text and drive? Would you say that most boys never text and drive?

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•	How did including the groups argument in your code change the graph?
Do n	nales and females have similar heights? Can you use this graphic to answer the question at the top of the slide? Why or why not?
•	Is grouping numeric values, such as heights, as helpful as grouping categorical variables, such as texting & driving?
Do n	nales and females have similar heights?, continued Do you think males and females have similar heights? Use the plot you create to justify you answer.
On y	our own: Choose one variable from the cdc data, make a graph, and use the graph to describe how drive_text use differs with this variable.