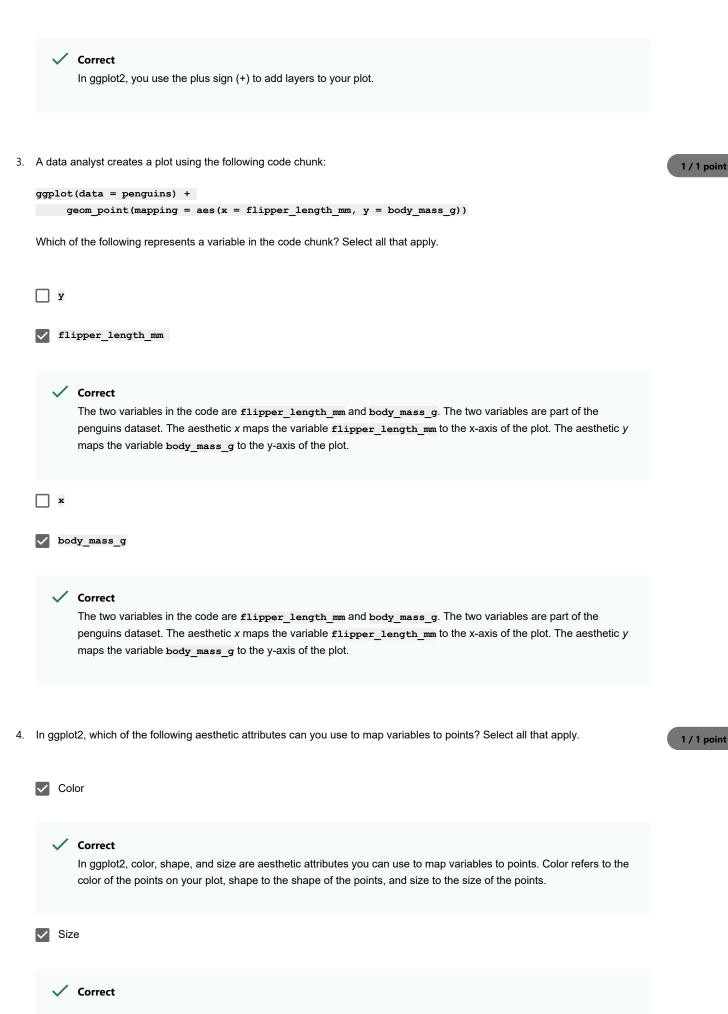
Weekly challenge 4

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LA	TEST SUBMISSION GRADE	
9	0%	
1.	Which of the following tasks can you complete with ggplot2 features? Select all that apply.	1 / 1 point
	Add labels and annotations to a plot	
	Correct ggplot2 includes features that let you create many different types of plots, customize the visual features of a plot, and add labels and annotations to a plot.	
	Customize the visual features of a plot	
	Correct ggplot2 includes features that let you create many different types of plots, customize the visual features of a plot, and add labels and annotations to a plot.	
	✓ Create many different types of plots	
	Correct ggplot2 includes features that let you create many different types of plots, customize the visual features of a plot, and add labels and annotations to a plot.	
	Automatically clean data before creating a plot	
2.	Fill in the blank: In ggplot2, you use the to add layers to your plot.	1 / 1 point
	equal sign (=)	
	plus sign (+)	
	ampersand symbol (&)	
	pipe operator (%>%)	



		color of the points on your plot, shape to the shape of the points, and size to the size of the points.						
	☐ Fa	acet						
	✓ SI	hape						
	✓	Correct In ggplot2, color, shape, and size are aesthetic attributes you can use to map variables to points. Color refers to the color of the points on your plot, shape to the shape of the points, and size to the size of the points.						
5.		analyst creates a scatterplot with a lot of data points. The analyst wants to make some points on the plot more arent than others. What aesthetic should the analyst use?	0 / 1 point					
	● Fi	II						
	○ Color							
	○ Shape							
	Alpha							
	×	Incorrect Review the video that discusses aesthetics for a refresher.						
6.		e working with the penguins dataset. You create a scatterplot with the following code: t(data = penguins) +	1 / 1 point					
	<pre>geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g))</pre>							
	You want to highlight the different penguin species on your plot. Add a code chunk to the second line of code to map the aesthetic <i>shape</i> to the variable <i>species</i> .							
	NOTE: the three dots () indicate where to add the code chunk.							
		<pre>1 ggplot(data = penguins) + 2</pre>						
		<pre>geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g, shape = species) fluor Reset</pre>						
	Which	penguin species does your visualization display?						
	Ad	delie, Gentoo, Macaroni						

	Adelie, Chinstrap, Gentoo					
	Emperor, Chinstrap, Gentoo					
	Adelie, Chinstrap, Emperor					
	You add the code chunk shape = species to the second line of code to map the aesthetic shape to the variable species. The correct code is ggplot(data = penguins) + geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g, shape = species)). Inside the parentheses of the aes() function, after the comma that follows y = body_mass_g, write the aesthetic (shape), then an equals sign, then the variable (species). The data points for each penguin species now appear in different shapes. Your visualization displays the Adelie, Chinstrap, and Gentoo penguin species.					
7.	What function creates a scatterplot and then adds a small amount of random noise to each point in the plot to make the points easier to find?	1 / 1 point				
	The geom_bar() function					
	The geom_jitter() function					
	The geom_smooth() function					
	The geom_point() function					
	Correct The geom_jitter() function creates a scatterplot and then adds a small amount of random noise to each point in the plot to make the points easier to find.					
8.	You are working with the diamonds dataset. You create a bar chart with the following code: ggplot(data = diamonds) +	1/1 point				
	<pre>geom_bar(mapping = aes(x = color, fill = cut)) +</pre>					
	You want to use the facet_wrap() function to display subsets of your data. Add the code chunk that lets you facet your plot based on the variable <i>color</i> .					
	<pre>1 ggplot(data = diamonds) + geom_bar(mapping = aes(x = color, fill = cut)) + facet_wrap(~color</pre>					

Reset

How many subplots does your visualization show?

	7		
	O 6		
	O 9		
	0 8		
	✓	You add the code chunk <pre>facet_wrap(~color)</pre> to facet your plot based on the variable color. The correct code is ggplot(data = diamonds) + geom_bar(mapping = aes(x = color, fill = cut)) + facet_wrap(~color). Inside the parentheses of the facet_wrap() function, write a tilde symbol (~) followed by the name of the variable you want to facet. The facet_wrap() function lets you display subsets of your data. Your visualization shows 7 subplots.	
9.		analyst uses the annotate() function to create a text label for a plot. Which attributes of the text can the analyst change by code to the argument of the annotate() function? Select all that apply.	1/1
	☐ Ch	ange the text into a title for the plot	
	Ch	ange the size of the text	
	~	Correct By adding code to the argument of the annotate() function, the analyst can change the font style, color, and size of the text.	
	Ch	ange the font style of the text	
	✓	Correct By adding code to the argument of the annotate() function, the analyst can change the font style, color, and size of the text.	
	✓ Ch	ange the color of the text	
	~	Correct By adding code to the argument of the annotate() function, the analyst can change the font style, color, and size of the text.	

10. You are working with the penguins dataset. You create a scatterplot with the following lines of code:

geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g)) +

What code chunk do you add to the third line to save your plot as a png file with "penguins" as the file name?

•	ggsave("penguins.png")
0	ggsave("penguins")
0	ggsave(penguins.png)
0	ggsave("png.penguins")



✓ Correct

You add the code chunk <code>ggsave("penguins.png")</code> to save your plot as a png file with "penguins" as the file name. Inside the parentheses of the ggsave() function, type a quotation mark followed by the file name (penguins), then a period, then the type of file (png), then a closing quotation mark