Congratulations! You passed!

 $\textbf{Grade received} \ 100\% \quad \textbf{To pass} \ 80\% \ \text{or higher}$

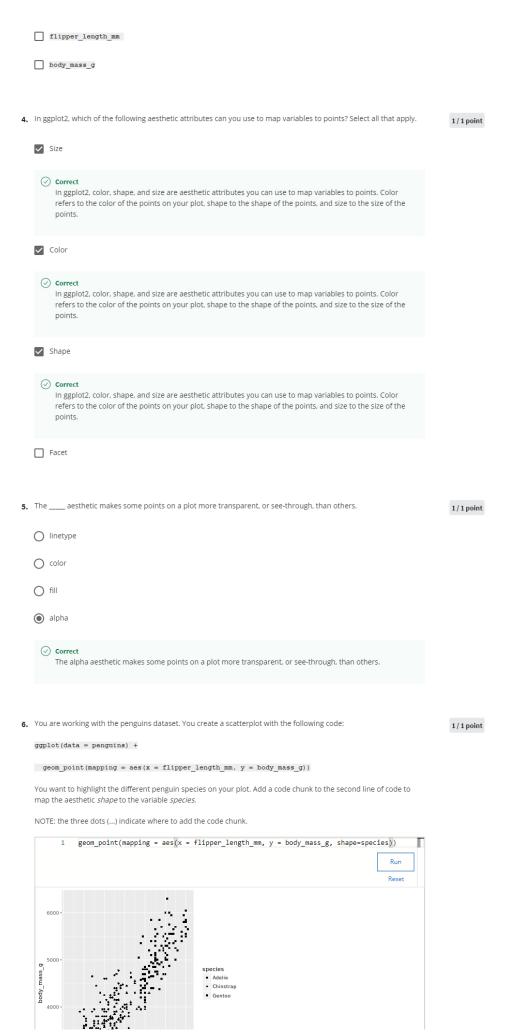
Go to next item

Weekly challenge 4

Latest Submission Grade 100%

ι.	Which of the following tasks can you complete with ggplot2 features? Select all that apply.	1/1 point
	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.	
	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.	
	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
	plus sign (+)	
	equal sign (=)	
	ampersand symbol (&)	
	O pipe operator (%>%)	
	Correct In ggplot2, you use the plus sign (+) to add layers to your plot.	
3.	A data analyst creates a plot using the following code chunk: ggplot(data = penguins) +	1/1 point
	<pre>geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g))</pre> Which of the following represents an aesthetic attribute in the code chunk? Select all that apply.	
	У У	
	Correct The two aesthetic attributes in the code are x and y. The aesthetic x maps the variable flipper_length_mm to the x-axis of the plot. The aesthetic y maps the variable body_mass_g to the y-axis of the plot.	
	☑ x	
	Correct The two aesthetic attributes in the code are x and y. The aesthetic x maps the variable flipper_length_mm	

to the x-axis of the plot. The aesthetic y maps the variable ${\tt body_mass_g}$ to the y-axis of the plot.





Which penguin species does your visualization display?

- Adelie, Gentoo, Macaroni
- O Adelie, Chinstrap, Emperor
- Adelie, Chinstrap, Gentoo
- C Emperor, Chinstrap, Gentoo

✓ Correct

You add the code chunk <code>shape = species</code> to the second line of code to map the aesthetic shape to the variable species. The correct code is <code>ggplot(data = penguins) + geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g, shape = species))</code>. 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. A data analyst creates a plot with the following code chunk:

1/1 point

```
ggplot(data = penguins) +
  geom_jitter(mapping = aes(x = flipper_length_mm, y = body_mass_g))
```

What does the geom_jitter() function do to the points in the plot?

- Adds a small amount of random shapes at each point in the plot
- Adds a small amount of random noise to each point in the plot
- O Decrease the size of each point in the plot
- Adds random colors to each point in the plot

⊘ 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.

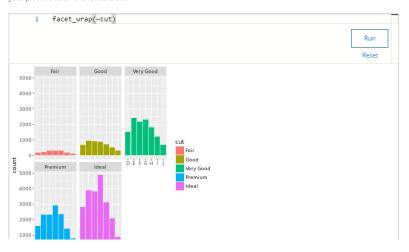
8. You are working with the diamonds dataset. You create a bar chart with the following code:

1/1 point

```
ggplot(data = diamonds) +
```

```
geom_bar(mapping = aes(x = color, fill = cut)) +
```

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 *cut*.





	How many subplots does your visualization show?	
	§ 5	
	O 4	
	O 3	
	O 6	
	Ocrrect You add the code chunk facet_wrap (~cut) to facet your plot based on the variable cut. The correct code is ggplot(data = diamonds) + geom_bar(mapping = aes(x = color, fill = cut)) + facet_wrap(~cut). 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 5 subplots.	
9.	A data analyst creates a scatterplot. The analyst wants to put a text label on the plot to call out specific data points. What function does the analyst use?	1 / 1 point
	○ The ggplot() function	
	The geom_smooth() function	
	The facet_grid() function	
	The annotate() function	
	Correct The analyst uses the annotate() function. The annotate() function can put a text label on a plot to call out specific data points.	
10), You are working with the penguins dataset. You create a scatterplot with the following lines of code:	1/1 point
	<pre>ggplot(data = penguins) + geom point(mapping = aes(x = flipper length mm, y = body mass g)) +</pre>	
	What code chunk do you add to the third line to save your plot as a png file with "penguins" as the file name?	
	<pre>ggsave("penguins.png")</pre>	
	ggsave("penguins")	
	ggsave(penguins.png)	
	<pre>ggsave("png.penguins")</pre>	
	Correct You add the code chunk ggsave ("penguins.png") 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.	