BEWERTUNG 80 %

Weekly challenge 4	
NEUESTE EINREICHUNGSBEWERTUNG 80%	
Which of the following are benefits of using ggplot2? Select all that apply. Easily add layers to your plot	0.5 / 1 Punkt
Combine data manipulation and visualization	
Richtig The benefits of using ggplot2 include easily adding layers to your plot, customizing the look and feel of your plot, combining data manipulation and visualization.	
Customize the look and feel of your plot	
Richtig The benefits of using ggplot2 include easily adding layers to your plot, customizing the look and feel of your plot, combining data manipulation and visualization.	
Automatically clean data before creating a plot	
X Diese Antwort sollte nicht ausgewählt werden Review the section introducing ggplot2 for a refresher.	
2. Fill in the blank: In ggplotz, you use the to add layers to your plot. O pipe operator (%>%) O equal sign (=) Plus sign (+) O ampersand symbol (&)	1/1 Punkt
✓ Richtig	
In ggplot2, you use the plus sign (+) to add layers to your plot.	
A data analyst creates a plot using the following code chunk:	1 / 1 Punkt
<pre>ggplot(data = penguins) + geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g))</pre>	
Which of the following represents a function in the code chunk? Select all that apply.	
☑ The geom_point function	
✓ Richtig The functions in the code chunk are the ggplot() function, the geom_point() function, and the aes() function. The ggplot() function specifies the data frame to use for the plot. The geom_point() function specifies the geometric object that represents the data. The aes() function specifies the aesthetic attributes of the plot.	
✓ The ggplot function	
✓ Richtig The functions in the code chunk are the ggplot() function, the geom_point() function, and the aes() function. The ggplot() function specifies the data frame to use for the plot. The geom_point() function specifies the geometric object that represents the data. The aes() function specifies the aesthetic attributes of the plot.	
the data function	
✓ The aes function	
Richtig The functions in the code chunk are the ggplot() function, the geom_point() function, and the aes() function. The ggplot() function specifies the data frame to use for the plot. The geom_point() function specifies the geometric object that represents the data. The aes() function specifies the aesthetic attributes of the plot.	
4. Fill in the blank: In ggplot2, the term mapping refers to the connection between variables and O geoms	1/1 Punkt
• aesthetics	
O facets O data frames	

Mapping means matching up a specific variable in your data set with a specific aesthetic. You use the aes() function to define the mapping between your data and your plot.

Alpha	
O Color	
O Shape	
O Fill	
Richtig The analyst should use the alpha aesthetic. The alpha aesthetic makes some points on a plot more transparent than others.	
5. You are working with the penguins dataset. You create a scatterplot with the following code chunk:	0 / 1 Punkt
ggplot(data = penguins) +	
<pre>geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g))</pre>	
How do you change the second line of code to map the aesthetic size to the variable species?	
<pre>@ geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g, species = size)</pre>	
<pre>Geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g, size = species))</pre>	
<pre>Geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g, size + species))</pre>	
<pre>Geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g, species + size)</pre>	
Falsch Review the section on aesthetics for a refresher.	
7. A data analyst creates a plot with the following code chunk:	1/1 Punkt
<pre>ggplot(data = penguins) + geom_jitter(mapping = aes(x = flipper_length_mm, y = body_mass_g))</pre>	
What does the geom_jitter() function do to the points in the plot?	
Adds random colors to each point in the plot	
Adds a small amount of random shapes at each point in the plot	
O Decrease the size of each point in the plot	
Adds a small amount of random noise to each point in the plot	
Richtig 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 have created a plot based on data in the diamonds dataset. What code chunk can be added to your existing plot to create wrap around facets based on the variable clarity? Ofacet_wrap(=clarity) facet_clarity) facet_vrap(-clarity) facet_vrap(-clarity)	1/1 Punkt
Richtig The code chunk is facet_wrap(-clarity). Inside the parentheses of the facet_wrap() function, type a tilde symbol (-) followed by the name of the variable you want to facet.	
 A data analyst uses the annotate() function to create a text label for a plot. Which attributes of the text can the analyst change by adding code to the argument of the annotate() function? Select all that apply. 	0.5 / 1 Punkt
☐ Change the size of the text	
Change the font style of the text	
Richtig By adding code to the argument of the annotate() function, the analyst can change the font style, color, and size of the text.	
Change the text into a title for the plot	
X Diese Antwort sollte nicht ausgewählt werden Review the section on labels and annotations for a refresher.	
Change the color of the text	
Richtig 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:	1 / 1 Punkt
ggplot(data = penguins) +	
<pre>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 jpeg file with "penguins" as the file name?	
ggsave("penguins.jpeg")	
Qgsave(penguins.ipeg)	

□ ggsave("jpeg.penguins")

 ✓ Richtig

You add the code chunk ggsave("penguins.jpeg") to save your plot as a jpeg 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 (ipeg), then a dosing quotation mark.