

Multiple Choice Questions and Answers

1. Which library in Python is commonly used for data visualization?

- a) matplotlib
- b) seaborn
- c) pandas
- d) plotly

Answer: a) Matplotlib

2. Which type of plot is best suited for visualizing the distribution of a single variable?

- a) histogram
- b) scatter plot
- c) box plot
- d) line plot

Answer: a) Histogram

3. What type of plot is suitable for displaying the relationship between two continuous variables?

- a) scatter plot
- b) histogram
- c) box plot
- d) line plot

Answer: a) Scatter plot

4. Which type of plot is commonly used to show the relationship between two continuous variables along with their individual distributions?

- a) jointplot
- b) pairplot
- c) heatmap
- d) violin plot

Answer: a) Jointplot

5. What type of plot is effective for visualizing the spread and central tendency of a continuous variable across different categories?

- a) box plot
- b) violin plot
- c) swarm plot
- d) strip plot

Answer: a) Box plot

6. Which type of plot is suitable for visualizing the distribution of a single categorical variable?

- a) bar plot
- b) pie chart
- c) scatter plot
- d) histogram

Answer: a) Bar plot

7. In Python, which library is commonly used for creating interactive visualizations?

- a) plotly
- b) matplotlib
- c) seaborn
- d) bokeh

Answer: a) Plotly

8. Which type of plot is useful for visualizing hierarchical data structures?

- a) treemap
- b) sunburst plot
- c) heatmap
- d) scatter plot

Answer: a) Treemap

9. What type of plot is effective for visualizing relationships between multiple variables simultaneously?

- a) pairplot
- b) scatter plot matrix
- c) heatmap
- d) box plot

Answer: a) Pairplot

10. Which type of plot is used to visualize geographical data?

- a) choropleth map
- b) scatter plot
- c) histogram
- d) bar plot

Answer: a) Choropleth map

11. What Python library is commonly used for creating 3D visualizations?

- a) matplotlib
- b) plotly
- c) seaborn
- d) bokeh

Answer: a) Matplotlib

12. Which type of plot is useful for visualizing networks or graphs?

- a) network plot
- b) scatter plot
- c) bar plot
- d) histogram

Answer: a) Network plot

13. Which type of plot is commonly used to visualize images?

- a) image plot
- b) scatter plot
- c) line plot
- d) histogram

Answer: a) Image plot

14. What type of plot is suitable for visualizing data on a grid or mesh structure?

- a) heatmap
- b) contour plot
- c) surface plot
- d) wireframe plot

Answer: a) Heatmap

15. In Python, which library provides support for creating animated visualizations?

- a) matplotlib
- b) plotly
- c) seaborn
- d) bokeh

Answer: a) Matplotlib

16. Which type of plot is suitable for visualizing time-series data?

- a) line plot
- b) scatter plot
- c) bar plot
- d) histogram

Answer: a) Line plot

17. What type of plot is effective for visualizing the distribution of two continuous variables along with their relationship?

- a) hexbin plot
- b) contour plot
- c) swarm plot
- d) violin plot

Answer: a) Hexbin plot

18. Which type of plot is commonly used for visualizing the frequency of occurrence of different categories?

- a) bar plot
- b) pie chart
- c) histogram
- d) scatter plot

Answer: a) Bar plot

19. In Python, which library provides support for creating geographic visualizations with maps?

- a) folium
- b) basemap
- c) plotly
- d) geopandas

Answer: a) Folium

20. Which type of plot is suitable for visualizing the distribution of a continuous variable across multiple categories?

- a) box plot
- b) violin plot
- c) swarm plot
- d) strip plot

Answer: a) Box plot

21. What type of plot is effective for visualizing the relationship between three continuous variables?

- a) 3d scatter plot
- b) pairplot
- c) heatmap
- d) line plot

Answer: a) 3D Scatter plot

22. Which type of plot is commonly used to visualize the distribution of a continuous variable over time?

- a) time series plot
- b) line plot
- c) histogram
- d) bar plot

Answer: a) Time series plot

23. What Python library is commonly used for creating interactive geographical visualizations?

- a) folium
- b) plotly
- c) geopandas
- d) basemap

Answer: a) Folium

24. Which type of plot is effective for visualizing the distribution of multiple continuous variables simultaneously?

- a) pairplot
- b) scatter plot matrix
- c) heatmap
- d) box plot

Answer: a) Pairplot

25. What type of plot is suitable for visualizing the distribution of a continuous variable along with its variation over an additional categorical variable?

- a) box plot
- b) violin plot
- c) swarm plot
- d) strip plot

Answer: a) Box plot

26. Which type of plot is commonly used to visualize the relationship between two continuous variables while controlling for the effect of a third variable?

- a) pairplot
- b) 3d scatter plot
- c) heatmap
- d) line plot

Answer: a) Pairplot

27. In Python, which library is commonly used for creating animated visualizations specifically for data analysis?

- a) matplotlib
- b) plotly
- c) seaborn
- d) bokeh

Answer: a) Matplotlib

28. Which type of plot is suitable for visualizing the distribution of a continuous variable across multiple groups?

- a) grouped box plot
- b) violin plot
- c) swarm plot
- d) strip plot

Answer: a) Grouped box plot

29. What type of plot is effective for visualizing the relationship between two continuous variables with a smooth trend line fitted through the data points?

- a) scatter plot with regression line
- b) hexbin plot
- c) swarm plot
- d) violin plot

Answer: a) Scatter plot with regression line

30. Which type of plot is commonly used to visualize the distribution of a continuous variable with respect to time and another categorical variable?

- a) line plot with markers
- b) scatter plot matrix
- c) heatmap
- d) box plot

Answer: a) Line plot with markers

31. What Python library is commonly used for creating interactive visualizations with sliders and dropdown menus?

- a) plotly
- b) matplotlib
- c) seaborn
- d) bokeh

Answer: a) Plotly

32. Which type of plot is suitable for visualizing the distribution of a continuous variable along with its variation across different categories?

- a) grouped violin plot
- b) violin plot
- c) swarm plot
- d) strip plot

Answer: a) Grouped violin plot

33. What type of plot is effective for visualizing the relationship between two continuous variables with a smooth curve fitted through the data points?

- a) scatter plot with loess curve
- b) hexbin plot
- c) swarm plot
- d) violin plot

Answer: a) Scatter plot with loess curve

34. Which type of plot is commonly used to visualize the distribution of a continuous variable with respect to time?

- a) time series plot
- b) line plot
- c) histogram
- d) bar plot

Answer: a) Time series plot

35. In Python, which library is commonly used for creating visualizations with a focus on statistical analysis and aesthetics?

- a) seaborn
- b) plotly
- c) matplotlib
- d) bokeh

Answer: a) Seaborn

36. Which type of plot is suitable for visualizing the distribution of a continuous variable along with its variation over time?

- a) time series plot
- b) line plot
- c) histogram
- d) bar plot

Answer: a) Time series plot

37. What type of plot is effective for visualizing the distribution of a continuous variable with respect to time and another categorical variable, with colored regions representing the data density?

- a) jointplot with kind='kde'
- b) pairplot
- c) heatmap
- d) line plot

Answer: a) Jointplot with kind='kde'

38. Which type of plot is commonly used for visualizing the distribution of a continuous variable with respect to time and another categorical variable?

- a) line plot with hue
- b) scatter plot matrix
- c) heatmap
- d) box plot

Answer: a) Line plot with hue

39. What type of plot is suitable for visualizing the distribution of a continuous variable along with its variation across multiple groups?

- a) grouped violin plot
- b) violin plot
- c) swarm plot
- d) strip plot

Answer: a) Grouped violin plot

40. Which type of plot is effective for visualizing the relationship between two continuous variables with a smooth trend line fitted through the data points, separately for different categories?

- a) scatter plot with hue and regression line
- b) hexbin plot
- c) swarm plot
- d) violin plot

Answer: a) Scatter plot with hue and regression line

41. What type of plot is commonly used to visualize the relationship between two continuous variables, with colored points representing the density of observations?

- a) hexbin plot
- b) scatter plot matrix
- c) heatmap
- d) line plot

Answer: a) Hexbin plot

42. Which type of plot is suitable for visualizing the relationship between two continuous variables with a smooth curve fitted through the data points?

- a) scatter plot with loess curve
- b) hexbin plot
- c) swarm plot
- d) violin plot

Answer: a) Scatter plot with loess curve

43. What type of plot is effective for visualizing the relationship between two continuous variables with a smooth trend line fitted through the data points, grouped by another categorical variable?

- a) scatter plot with hue and regression line
- b) hexbin plot
- c) swarm plot
- d) violin plot

Answer: a) Scatter plot with hue and regression line

44. Which type of plot is commonly used for visualizing the relationship between two continuous variables with a smooth curve fitted through the data points, separately for different categories?

- a) scatter plot with hue and loess curve
- b) hexbin plot
- c) swarm plot
- d) violin plot

Answer: a) Scatter plot with hue and loess curve

45. What type of plot is suitable for visualizing the relationship between two continuous variables with a smooth curve fitted through the data points, while controlling for the effect of a third variable?

- a) scatter plot with loess curve and hue
- b) hexbin plot
- c) swarm plot

d) violin plot

Answer: a) Scatter plot with loess curve and hue

46. Which type of plot is effective for visualizing the relationship between two continuous variables with a smooth curve fitted through the data points, grouped by another categorical variable?

- a) scatter plot with loess curve and hue
- b) hexbin plot
- c) swarm plot
- d) violin plot

Answer: a) Scatter plot with loess curve and hue

47. What type of plot is commonly used to visualize the relationship between two continuous variables, with colored points representing the density of observations, separately for different categories?

- a) hexbin plot with hue
- b) scatter plot matrix
- c) heatmap
- d) line plot

Answer: a) Hexbin plot with hue

48. Which type of plot is suitable for visualizing the relationship between two continuous variables with a smooth trend line fitted through the data points, while controlling for the effect of a third variable?

- a) scatter plot with hue and regression line
- b) hexbin plot
- c) swarm plot
- d) violin plot

Answer: a) Scatter plot with hue and regression line

49. What type of plot is effective for visualizing the relationship between two continuous variables with a smooth curve fitted through the data points, grouped by another categorical variable, and colored points representing the density of observations?

- a) scatter plot with loess curve, hue, and density
- b) hexbin plot
- c) swarm plot
- d) violin plot

Answer: a) Scatter plot with loess curve, hue, and density

50. Which type of plot is commonly used for visualizing the relationship between two continuous variables with a smooth curve fitted through the data points, grouped by another categorical variable, and colored points representing the density of observations?

- a) scatter plot with loess curve, hue, and density
- b) hexbin plot
- c) swarm plot
- d) violin plot

Answer: a) Scatter plot with loess curve, hue, and density

51. What is the primary data structure used in Pandas for data manipulation?

- a) list
- b) dataframe
- c) series
- d) array

Answer: c) Series

52. Which library is commonly used for data visualization in Python?

- a) numpy
- b) pandas
- c) matplotlib
- d) scipy

Answer: c) Matplotlib

53. What function is used to read CSV files into a Pandas DataFrame?

- a) read_csv()

- b) `read_file()`
- c) `load_data()`
- d) `import_csv()`

Answer: a) `read_csv()`

54. How do you create a new column in a Pandas DataFrame?

- a) using `df.append()`
- b) using `df.create_column()`
- c) using `df.insert()`
- d) using `df['new_column'] = ...`

Answer: d) Using `df['new_column'] = ...`

55. Which method is used to plot a line graph in Matplotlib?

- a) `plot_line()`
- b) `plot()`
- c) `lineplot()`
- d) `plt.plot()`

Answer: d) `plt.plot()`

56. How do you customize the color of a plot in Matplotlib?

- a) using the color parameter
- b) using `plt.set_color()`
- c) using the style parameter
- d) by changing the background color

Answer: a) Using the color parameter

57. Which of the following statements is true about Pandas DataFrames?

- a) dataframes can only hold numerical data
- b) dataframes are immutable
- c) dataframes can have different data types in each column
- d) dataframes are one-dimensional arrays

Answer: c) DataFrames can have different data types in each column

58. What is the function of the head() method in Pandas?

- a) it returns the last few rows of a dataframe
- b) it returns the first few rows of a dataframe
- c) it sorts the dataframe
- d) it removes duplicate rows from the dataframe

Answer: b) It returns the first few rows of a DataFrame

59. Which of the following is NOT a valid data type in Pandas?

- a) string
- b) float
- c) integer
- d) boolean

Answer: a) String

60. How do you set the title of a Matplotlib plot?

- a) plt.set_title()
- b) plt.title()
- c) set_plot_title()
- d) plot_title()

Answer: b) plt.title()

61. Which method is used to save a Matplotlib plot to a file?

- a) save_plot()
- b) plt.save()
- c) plt.savefig()
- d) save_figure()

Answer: c) plt.savefig()

62. What is the default marker style in a Matplotlib plot?

- a) square
- b) circle
- c) triangle

d) none

Answer: b) Circle

63. Which library is used for creating 3D plots in Python?

- a) pandas
- b) numpy
- c) scipy
- d) matplotlib

Answer: d) Matplotlib

64. How do you set the x-axis label in Matplotlib?

- a) plt.xlabel()
- b) set_x_axis_label()
- c) plt.set_x_label()
- d) set_xlabel()

Answer: a) plt.xlabel()

65. Which method is used to change the figure size in Matplotlib?

- a) change_figure_size()
- b) set_figure_size()
- c) plt.set_size()
- d) plt.figure(figsize=(width, height))

Answer: d) plt.figure(figsize=(width, height))

66. What is the purpose of the describe() method in Pandas?

- a) it returns statistical information about the dataframe
- b) it removes missing values
- c) it sorts the dataframe
- d) it renames columns in the dataframe

Answer: a) It returns statistical information about the DataFrame

67. How do you change the font size of text in a Matplotlib plot?

- a) plt.set_font_size()

- b) `plt.fontsize()`
- c) `plt.set_size()`
- d) `plt.textsize()`

Answer: b) `plt.fontsize()`

68. Which method is used to create a scatter plot in Matplotlib?

- a) `scatter()`
- b) `plot.scatter()`
- c) `plt.scatter()`
- d) `scatter_plot()`

Answer: c) `plt.scatter()`

69. What is the purpose of the `info()` method in Pandas?

- a) it displays concise summary information about the dataframe
- b) it removes duplicates
- c) it sorts the dataframe
- d) it replaces missing values in the dataframe

Answer: a) It displays concise summary information about the DataFrame

70. Which of the following is NOT a valid parameter for customizing a plot in Matplotlib?

- a) background color
- b) line style
- c) marker style
- d) transparency

Answer: a) Background color

71. What is the purpose of the `tail()` method in Pandas?

- a) it returns the first few rows of a dataframe
- b) it returns the last few rows of a dataframe
- c) it sorts the dataframe
- d) it removes duplicate rows from the dataframe

Answer: b) It returns the last few rows of a DataFrame

72. How do you change the line style in a Matplotlib plot?

- a) plt.set_line_style()
- b) plt.style()
- c) plt.linestyle()
- d) plt.plot(style='...')

Answer: d) plt.plot(style='...')

73. Which method is used to create a bar plot in Matplotlib?

- a) plot_bar()
- b) plt.barplot()
- c) bar()
- d) plt.bar()

Answer: d) plt.bar()

74. What is the purpose of the shape attribute in Pandas DataFrames?

- a) it returns the number of rows and columns in the dataframe
- b) it sorts the dataframe
- c) it removes missing values from the dataframe
- d) it returns the data types of each column in the dataframe

Answer: a) It returns the number of rows and columns in the DataFrame

75. How do you change the line color in a Matplotlib plot?

- a) plt.set_line_color()
- b) plt.color()
- c) plt.plot(color='...')
- d) plt.linecolor()

Answer: c) plt.plot(color='...')

76. Which method is used to create a histogram in Matplotlib?

- a) hist()
- b) plt.histogram()

- c) `plt.hist()`
- d) `plot_histogram()`

Answer: c) `plt.hist()`

77. What does the `isnull()` method in Pandas return?

- a) it returns true for non-null elements in the dataframe
- b) it returns true for missing or null elements
- c) it sorts the dataframe
- d) it removes duplicate rows from the dataframe

Answer: b) It returns True for missing or null elements

78. How do you add a legend to a Matplotlib plot?

- a) `plt.add_legend()`
- b) `plt.legend()`
- c) `add_legend()`
- d) `legend()`

Answer: b) `plt.legend()`

79. Which method is used to create a box plot in Matplotlib?

- a) `plot_box()`
- b) `plt.boxplot()`
- c) `box()`
- d) `plt.plot_box()`

Answer: b) `plt.boxplot()`

80. What is the purpose of the `mean()` method in Pandas?

- a) it calculates the mean value for each column in the dataframe
- b) it removes missing values
- c) it sorts the dataframe
- d) it returns the median value for each column in the dataframe

Answer: a) It calculates the mean value for each column in the DataFrame

81. How do you rotate the x-axis labels in a Matplotlib plot?

- a) `plt.rotate_x_labels()`
- b) `plt.rotate_labels()`
- c) `plt.xticks(rotation=...)`
- d) `rotate_x_axis()`

Answer: c) `plt.xticks(rotation=...)`

82. Which method is used to create a pie chart in Matplotlib?

- a) `plot_pie()`
- b) `plt.piechart()`
- c) `plt.pie()`
- d) `pie_plot()`

Answer: c) `plt.pie()`

83. What is the purpose of the `max()` method in Pandas?

- a) it calculates the maximum value for each column in the dataframe
- b) it removes missing values
- c) it sorts the dataframe
- d) it returns the median value for each column in the dataframe

Answer: a) It calculates the maximum value for each column in the DataFrame

84. How do you change the background color of a Matplotlib plot?

- a) `plt.set_background_color()`
- b) `plt.background()`
- c) `plt.plot(bgcolor='...')`
- d) `plt.set_facecolor()`

Answer: d) `plt.set_facecolor()`

85. Which method is used to create a heat map in Matplotlib?

- a) `plot_heatmap()`
- b) `plt.heatmap()`
- c) `plt.heat()`
- d) `heatmap_plot()`

Answer: b) plt.heatmap()

86. What is the purpose of the min() method in Pandas?

- a) it calculates the minimum value for each column in the dataframe
- b) it removes missing values
- c) it sorts the dataframe
- d) it returns the median value for each column in the dataframe

Answer: a) It calculates the minimum value for each column in the DataFrame

87. How do you change the font family in a Matplotlib plot?

- a) plt.set_font_family()
- b) plt.fontfamily()
- c) plt.font()
- d) plt.family()

Answer: b) plt.fontfamily()

88. Which method is used to create a violin plot in Matplotlib?

- a) plot_violin()
- b) plt.violinplot()
- c) violin()
- d) plt.plot_violin()

Answer: b) plt.violinplot()

89. What is the purpose of the std() method in Pandas?

- a) it calculates the standard deviation for each column in the dataframe
- b) it removes missing values
- c) it sorts the dataframe
- d) it returns the median value for each column in the dataframe

Answer: a) It calculates the standard deviation for each column in the DataFrame

90. How do you change the transparency of a plot in Matplotlib?

- a) plt.set_transparency()
- b) plt.opacity()

- c) `plt.set_alpha()`
- d) `plt.plot(alpha=...)`

Answer: c) `plt.set_alpha()`

91. Which method is used to create a line plot with markers in Matplotlib?

- a) `line_with_markers()`
- b) `plot_markers()`
- c) `plt.plot()` with marker parameter
- d) `plt.lineplot()`

Answer: c) `plt.plot()` with marker parameter

92. What is the purpose of the `count()` method in Pandas?

- a) it counts the number of non-null values in each column of the dataframe
- b) it removes missing values
- c) it sorts the dataframe
- d) it returns the total number of values in the dataframe

Answer: a) It counts the number of non-null values in each column of the DataFrame

93. How do you change the grid style in a Matplotlib plot?

- a) `plt.set_grid_style()`
- b) `plt.grid_style()`
- c) `plt.grid()`
- d) `plt.style_grid()`

Answer: c) `plt.grid()`

94. Which method is used to create a 3D scatter plot in Matplotlib?

- a) `scatter3d()`
- b) `plot_3dscatter()`
- c) `plt.scatter3d()`
- d) `scatter_plot_3d()`

Answer: c) `plt.scatter3D()`

95. What is the purpose of the `sum()` method in Pandas?

- a) it calculates the sum of values for each column in the dataframe
- b) it removes missing values
- c) it sorts the dataframe
- d) it returns the median value for each column in the dataframe

Answer: a) It calculates the sum of values for each column in the DataFrame

96. How do you change the axis limits in a Matplotlib plot?

- a) `plt.set_axis_limits()`
- b) `plt.limits()`
- c) `plt.set_limits()`
- d) `plt.xlim()` / `plt.ylim()`

Answer: d) `plt.xlim()` / `plt.ylim()`

97. Which method is used to create a 3D surface plot in Matplotlib?

- a) `plot_surface()`
- b) `plt.surfaceplot()`
- c) `plt.plot_surface()`
- d) `surface_plot()`

Answer: c) `plt.plot_surface()`

98. What is the purpose of the `median()` method in Pandas?

- a) it calculates the median value for each column in the dataframe
- b) it removes missing values
- c) it sorts the dataframe
- d) it returns the total number of values in the dataframe

Answer: a) It calculates the median value for each column in the DataFrame

99. How do you change the tick labels in a Matplotlib plot?

- a) `plt.set_tick_labels()`
- b) `plt.ticks()`
- c) `plt.set_ticks()`

d) `plt.xticks()` / `plt.yticks()`

Answer: d) `plt.xticks()` / `plt.yticks()`

100. Which library is commonly used for data visualization in Python?

- a) seaborn
- b) matplotlib
- c) pandas
- d) scikit-learn

Answer: b) Matplotlib

101. Seaborn is built on top of which library?

- a) pandas
- b) matplotlib
- c) plotly
- d) numpy

Answer: b) Matplotlib

102. Which of the following is NOT a feature of Seaborn?

- a) statistical estimation
- b) aesthetically pleasing default styles
- c) high-performance interactivity
- d) built-in themes

Answer: c) High-performance interactivity

103. What kind of plots can be created using Seaborn?

- a) scatter plots
- b) box plots
- c) violin plots
- d) all of the above

Answer: d) All of the above

104. Seaborn is particularly useful for visualizing what type of data?

- a) categorical data

- b) time series data
- c) image data
- d) none of the above

Answer: a) Categorical data

105. Which function is used to create a scatter plot in Seaborn?

- a) scatterplot()
- b) lineplot()
- c) scatter()
- d) plot()

Answer: a) scatterplot()

106. What is the primary function used for creating box plots in Seaborn?

- a) plot_box()
- b) boxplot()
- c) plot()
- d) box_plot()

Answer: b) boxplot()

107. Which function is used to create a violin plot in Seaborn?

- a) plot_violin()
- b) violinplot()
- c) plot()
- d) violin_plot()

Answer: b) violinplot()

108. In Seaborn, which function is used to create a bar plot?

- a) plot_bar()
- b) barplot()
- c) plot()
- d) bar_plot()

Answer: b) barplot()

109. What does the hue parameter do in Seaborn plotting functions?

- a) it sets the color of the plot background
- b) it specifies the aspect ratio of the plot
- c) it maps a variable to the color of plot elements
- d) it controls the transparency of plot elements

Answer: c) It maps a variable to the color of plot elements

110. Which Seaborn function is used to create a pair plot?

- a) pairplot()
- b) plot_pair()
- c) scatterplot_matrix()
- d) plot_matrix()

Answer: a) pairplot()

111. What does the kind parameter specify in the pairplot() function?

- a) it sets the aspect ratio of individual plots
- b) it specifies the type of plot for the diagonal subplots
- c) it determines the color palette to be used
- d) it controls the transparency of plot elements

Answer: b) It specifies the type of plot for the diagonal subplots

112. Which Seaborn function is used to create a heatmap?

- a) plot_heatmap()
- b) heatmap()
- c) plot()
- d) heat_map()

Answer: b) heatmap()

113. What does the annot parameter do in the heatmap() function?

- a) it specifies whether to annotate each cell with the numeric value
- b) it controls the aspect ratio of the heatmap
- c) it sets the color palette to be used

d) it controls the transparency of plot elements

Answer: a) It specifies whether to annotate each cell with the numeric value

114. Which Seaborn function is used to create a joint plot?

- a) `plot_joint()`
- b) `scatterplot()`
- c) `jointplot()`
- d) `plot()`

Answer: c) `jointplot()`

115. In Seaborn, what does the `kind` parameter specify in the `jointplot()` function?

- a) it sets the aspect ratio of the joint plot
- b) it determines the type of plot for the marginal axes
- c) it controls the transparency of plot elements
- d) it specifies the color palette to be used

Answer: b) It determines the type of plot for the marginal axes

116. Which Seaborn function is used to create a count plot?

- a) `plot_count()`
- b) `countplot()`
- c) `plot()`
- d) `barplot()`

Answer: b) `countplot()`

117. What does the `order` parameter specify in the `countplot()` function?

- a) it sets the aspect ratio of the plot
- b) it determines the order of categories on the x-axis
- c) it controls the transparency of plot elements
- d) it specifies the color palette to be used

Answer: b) It determines the order of categories on the x-axis

118. Which Seaborn function is used to create a regression plot?

- a) `plot_regression()`

- b) `regplot()`
- c) `scatterplot()`
- d) `plot()`

Answer: b) `regplot()`

119. What does the `ci` parameter control in the `regplot()` function?

- a) it sets the confidence interval for the regression line
- b) it determines the color palette to be used
- c) it controls the aspect ratio of the plot
- d) it specifies the size of plot elements

Answer: a) It sets the confidence interval for the regression line

120. Which Seaborn function is used to create a swarm plot?

- a) `swarmplot()`
- b) `plot_swarm()`
- c) `scatterplot()`
- d) `plot()`

Answer: a) `swarmplot()`

121. What does the `dodge` parameter control in the `swarmplot()` function?

- a) it specifies whether to dodge overlapping points
- b) it determines the color palette to be used
- c) it sets the aspect ratio of the plot
- d) it controls the transparency of plot elements

Answer: a) It specifies whether to dodge overlapping points

122. Which Seaborn function is used to create a `FacetGrid`?

- a) `facetgrid()`
- b) `FacetGrid()`
- c) `plot_facet()`
- d) `plot()`

Answer: b) `FacetGrid()`

123. What does the `col_wrap` parameter specify in the `FacetGrid()` function?

- a) it sets the number of columns in the grid
- b) it determines the color palette to be used
- c) it controls the aspect ratio of the subplots
- d) it specifies the maximum number of columns before wrapping

Answer: a) It sets the number of columns in the grid

124. Which Seaborn function is used to create a pair grid?

- a) `pairgrid()`
- b) `gridplot()`
- c) `plot_pairgrid()`
- d) `plot()`

Answer: a) `pairgrid()`

125. Which Seaborn function is used to create a point plot?

- a) `plot_point()`
- b) `pointplot()`
- c) `scatterplot()`
- d) `plot()`

Answer: b) `pointplot()`