**Please answer all homework questions in this template document according to the Homework #3 Instructions. Save this document as a *PDF* and submit to Canvas by Wednesday 9/29/21 at 2 pm.**

**Please make sure none of your filled in tables crosses a page boundary! Just type more enters between tables to make sure Dr. Spielman can read everything clearly!**

***If I can't read it clearly, I can't grade it!***

**Your name:** *replace this text with your name*

**Example Plot Answers**

*You can delete or keep these example answers in the template. It will not affect your grade.*

|  |  |
| --- | --- |
| **Prompt** | **Your answer** |
| What kind of plot is this? | Boxplot |
| Which dataset is it made from? | iris |
| Which variables are on which axes, or is it a transformation? For any variables, are they numeric or categorical? | * Species is on the x-axis. This variable is categorical * Sepal.Width is on the y-axis. This variable is numeric |
| What visual styles do you see, and is each "just" a style or a *mapped aesthetics*? | Boxplots are filled as a mapped aesthetic of Species |
| Is the plot faceted, and if so, along which variable? | There is no faceting |
| Provide your answer to the plot question in this row of the table | Yes, there is a relationship. Setosa irises have the smallest sepal widths, and virginica have the largest sepal widths, with versicolor in the middle, on average. |

**Plot 1 Answers**

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| --- | --- |
| **Prompt** | **Your answer** |
| What kind of plot is this? |  |
| Which dataset is it made from? |  |
| Which variables are on which axes, or is it a transformation? For any variables, are they numeric or categorical? |  |
| What visual styles do you see, and is each "just" a style or a *mapped aesthetics*? |  |
| Is the plot faceted, and if so, along which variable? |  |
| Provide your answer to the plot question in this row of the table |  |

**Plot 2 Answers**

|  |  |
| --- | --- |
| **Prompt** | **Your answer** |
| What kind of plot is this? |  |
| Which dataset is it made from? |  |
| Which variables are on which axes, or is it a transformation? For any variables, are they numeric or categorical? |  |
| What visual styles do you see, and is each "just" a style or a *mapped aesthetics*? |  |
| Is the plot faceted, and if so, along which variable? |  |
| Provide your answer to the plot question in this row of the table |  |

**Plot 3 Answers**

|  |  |
| --- | --- |
| **Prompt** | **Your answer** |
| What kind of plot is this? |  |
| Which dataset is it made from? |  |
| Which variables are on which axes, or is it a transformation? For any variables, are they numeric or categorical? |  |
| What visual styles do you see, and is each "just" a style or a *mapped aesthetics*? |  |
| Is the plot faceted, and if so, along which variable? |  |
| Provide your answer to the plot question in this row of the table |  |

**Plot 4 Answers**

|  |  |
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| **Prompt** | **Your answer** |
| What kind of plot is this? |  |
| Which dataset is it made from? |  |
| Which variables are on which axes, or is it a transformation? For any variables, are they numeric or categorical? |  |
| What visual styles do you see, and is each "just" a style or a *mapped aesthetics*? |  |
| Is the plot faceted, and if so, along which variable? |  |
| Provide your answer to the plot question in this row of the table |  |

**Plot 5 Answers**

|  |  |
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| **Prompt** | **Your answer** |
| What kind of plot is this? |  |
| Which dataset is it made from? |  |
| Which variables are on which axes, or is it a transformation? For any variables, are they numeric or categorical? |  |
| What visual styles do you see, and is each "just" a style or a *mapped aesthetics*? |  |
| Is the plot faceted, and if so, along which variable? |  |
| Provide your answer to the plot question in this row of the table |  |

**Plot 6 Answers**

|  |  |
| --- | --- |
| **Prompt** | **Your answer** |
| What kind of plot is this? |  |
| Which dataset is it made from? |  |
| Which variables are on which axes, or is it a transformation? For any variables, are they numeric or categorical? |  |
| What visual styles do you see, and is each "just" a style or a *mapped aesthetics*? |  |
| Is the plot faceted, and if so, along which variable? |  |
| Provide your answer to the plot question in this row of the table |  |

**Plot 7 Answers**

|  |  |
| --- | --- |
| **Prompt** | **Your answer** |
| What kind of plot is this? |  |
| Which dataset is it made from? |  |
| Which variables are on which axes, or is it a transformation? For any variables, are they numeric or categorical? |  |
| What visual styles do you see, and is each "just" a style or a *mapped aesthetics*? |  |
| Is the plot faceted, and if so, along which variable? |  |
| Provide your answer to the plot question in this row of the table |  |

**Plot 8 Answers**

|  |  |
| --- | --- |
| **Prompt** | **Your answer** |
| What kind of plot is this? |  |
| Which dataset is it made from? |  |
| Which variables are on which axes, or is it a transformation? For any variables, are they numeric or categorical? |  |
| What visual styles do you see, and is each "just" a style or a *mapped aesthetics*? |  |
| Is the plot faceted, and if so, along which variable? |  |
| Provide your answer to the plot question in this row of the table |  |