Meeting Summary for Data Visualization

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Quick recap

Marcus led a data analysis session, focusing on a specific time period and providing instructions on package installation and profile creation. He discussed the importance of separating data points into different vectors and transposing variables in a plot, and demonstrated how to create and customize a scatter plot of weight versus height data. He also showed how to create a plot using a formula version, add a title and units, and layer plots on top of each other using a combined no web plus the code block.

Next steps

- Students to complete the R programming exercise, including creating scatter plots and trend lines.
- Students to upload their completed R programming exercise to Canvas by Friday night.
- Marcus to prepare Power BI lesson materials for Friday's class.
- Students to review Power BI basics before Friday's class.

Summary

Data Analysis and R Package Installation

Marcus guided the team through a process of data analysis, focusing on a specific time period from 1999 to 2004. He encountered some issues with the R version on the computer, which he suggested might be due to a missing dot or profile. He also provided instructions on how to install packages and create a dot or profile file. The team was advised to download a lab file and open it in Emacs. Marcus also demonstrated how to plot data and adjust parameters. He ended the conversation by discussing a YouTube channel and a British bull breed.

Separating Points for Analysis Discussion

Marcus discussed the idea of separating points into different vectors for analysis. He suggested that each point should be placed in a separate vector, rather than being mixed together. He also mentioned the importance of not copying code blocks down, but rather placing them below the relevant section. Marcus also touched on the concept of running certain aspects separately. However, he did not provide a clear explanation of the'serial front' or 'polling ones' mentioned in the conversation.

Clarifying Marcus's Plot Variables

Marcus discussed a plot he created, which was initially confusing due to the transposition of variables. He explained that he had plotted height against weight, which seemed counterintuitive. Marcus suggested that weight should be the dependent variable and height should be the independent variable, as people can change their weight but not their height. He showed his plot and pointed out a point on the 200 line, which he believed would look different if the variables were transposed. Marcus also mentioned that the height and weight had the same order, which he found confusing.

Customizing Scatter Plot in R

Marcus discusses plotting and customizing a scatter plot of weight versus height data. He explains how to identify missing values, create a basic scatter plot, and customize it by highlighting specific points. Marcus shows how to draw an empty frame, create an index for points meeting certain criteria (e.g., weight over 200), plot those points individually, and then plot the remaining points. He mentions using additional functions like jittering or smoothing to better visualize the data. The discussion focuses on the technical details of creating and customizing the plot in R.

Plot Creation and Customization Tutorial

Marcus discussed his method of creating a plot using a formula version and customizing it with a title and units. He explained how to compute the trend line using a linear model and how to add outliers and a legend to the plot. Marcus also demonstrated how to layer plots on top of each other using a combined no web plus the code block. He showed how to tangle the plot into an R file and how to edit the code for the file. Marcus encouraged the team to take a screenshot or look at the PDF for their own interest. He also mentioned that the next lesson would focus on dashboard and Power Bi, with a deadline of Friday night.

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