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STAT-413/613 Shiny App Project: USArrests Data

Our Shiny App features the USArrests data. First, we defined UI for the application. Using Shiny’s html functions, we created a second level header with the title and a third level header with our names. We wanted the user-interface to display information about the dataset, so we used a fifth level header to include this information. TextOutput() was used to label the summaries of the USArresets variables while verbatimTextOutput() was used to display the summaries. We then created three reactivities using two select box widgets. Both select boxes provided the variable options from USArresets, which includes “Murder”, “Assault”, “UrbanPop”, and “Rape”. The reactivities included a boxplot and histogram of the selected Variable 1 and a scatterplot of both the selected Variable 1 and Variable 2 with a regression line. The plots are automatically re-executed when new variables are selected. While defining the server logic, we also added titles and colors to the plots.