**Features & Lines**

For data processing:

* Variable Class (Line 8-55)
* Dataframe Class (Line 57-132)
* Standard deviation (Line135-141)

Start Mode (Main menu) (Line 148-226):

* Interactive Buttons (Line 153-203)
  + Draw Buttons (Line 153-165)
  + Mouse Pressed (Line 174-196)
    - features will only be available once data is imported
  + Mouse Moved\_for user experience (Line 198-203)
* Short-cut command to load demo data (Line 206-217)
* Draw Logo & Cross Icon & Info Icon (Line 219-226)

Info Mode (Line 231-266)

ImportData Mode (Line 272-314)

* Import a CSV file and change the string to a 2d list
* If the entry is numerical/fraction/float, change it

ViewTable Mode (Line 334-414)

* Set a default cell size/table size (Line 320-325)
* Click cell & highlight (Line 334-367)
* Adjustable text size (Line 382-401)

Buttons for choosing variables (Line 420-694)

* Draw board (Line 420-445, Line 613-694)
* Interactive buttons that collect user’s selection (Line 447-608)
  + Work for all features, can prevent crushing by disabling illogical user inputs

BarGraph Mode

* Add & draw the buttons (Line 583-584, Line 594-595, Line 610-611)
* Draw bar chart (Line 699-885)
  + If x-Axis is “Day of the Week”, will sort the list before displaying the grid labels (Line 758-767)
  + If x-Axis is “Date”, will sort the list before displaying the grid labels (Line 770-788)
  + Adjust the grid range based on the variable selected (Line 800-802)
  + Draw all the components (some of them work for other graphs as well):
    - Axis & Axis Titles (Line 724-731)
    - Gridlines & Label (Line 804-839)
    - Bars (Line 841-853)
    - Error Bars & Data Label (Line 855-885)

LineGraph Mode (Line 891-969)

* Buttons (Line 891-898)
* Graph (Line 904-969)

Scatter Plot Mode (Line 975-1033)

* Buttons (Line 975-982)
* Graph (Line 988-1033)

PieChart Mode (Line 1039-1116)

* Buttons (Line 1039-1060)
* Allow user to click the arc and display the percentage (Line 1067-1097)
* Draw the chart (Line 1116-1175)

Analysis Mode (Line 1186-1522)

* User Interface (Line 1186-1208)
* Simple Linear Regression & output (Line 1222-1294)
* Multiple Linear Regression & output (Line 1331-1522)

appStarted (Line 1527-1747)

colorRandomization (Line 1749-1751)