

## Executive Summary

Good Morning,

This is a status report of the scottyab/rootbeer project, one of our biggest projects yet which we have been working on for many years. Analyzing the commit history of the repository, there were crucial findings to keep in mind as we work alongside our project. Attached below, is a scatterplot that shows the activities of distinct authors of the repository:



Each color represents a different author and a dot represents a commit in one of the many files by the certain author. As the graph illustrates, there are colors/authors that appear significantly less/more compared to others which signifies the amount of work that they have contributed. This shows the imbalance of workload among our teammates which is not ideal. Simultaneously, the authors(colors) that have contributed the most, should be evaluated more. Other information can be grasped from the graph if analyzed vertically as there are certain files that have been touched more such as RootBeer.java and the README file. In opposition, there are certain files for example, files 46-50 which have been only touched once that possibly require a rundown by a teammate.

As we talk about the importance of git commit histories and git, there are particularly useful git commands that should be mentioned to be utilized in future projects. Commands such as `git branch <branch_name>`, are useful when adding features and fixing bugs. In addition, `git rebase` is convenient to organize commit histories.

Lastly, I hope as the project manager, that these findings thrive our project further,  
Ren Matsubara

Repository Link: <https://github.com/renm10/SeniorDesign>

