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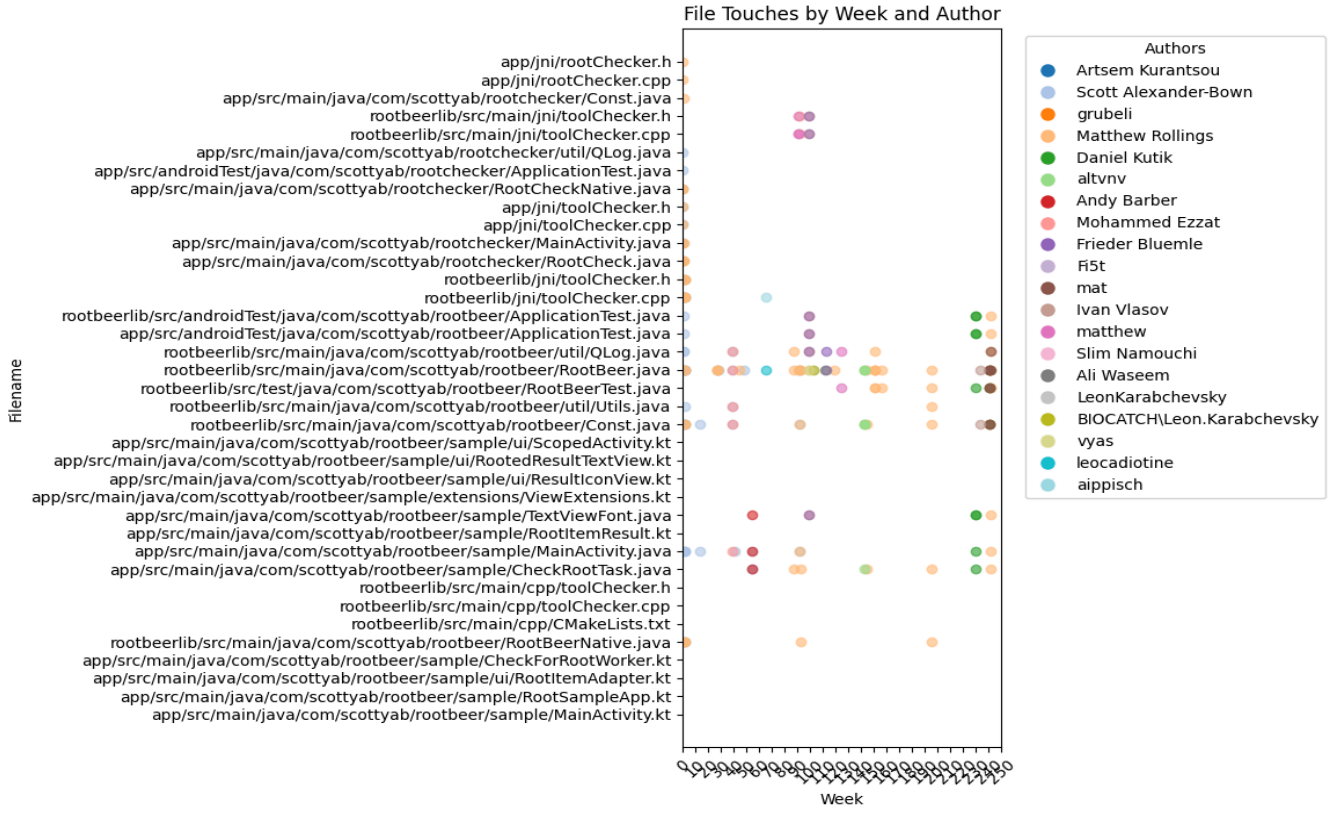
Executive Summary

- **Introduction**
  - This report provides an overview of a Python script designed to analyze and visualize file touches within a GitHub repository. Using my team's Git Repository the scripts created perform several key functions: collecting commit data, processing it to identify file touches by different authors, and visualizing this data through a scatter plot.
- **Team Git Repository**
  - Click Here
- **Personal Fork**
  - Click Here

- **Analysis**
  - Plotted below is the data extracted from the given files. It includes frequency of touches of certain files and by which users



- # Key Points
    - **Biggest Contributors**
        - Scott Alexander-Bown
        - Matthew Robbins
    - **Fall Off In Contributions**
        - Andy Barber
        - Gabriel Rabiner

- # Method
    - We began by adapting the existing `CollectFiles.py` script to focus exclusively on gathering data about source files within the repository. Subsequently, we developed a custom script, `authorsFileTouches.py`, to analyze the contributions of different authors to these files. This process included generating a GitHub token, integrating it into our script, and ensuring the accuracy of the collected data.
    - The adapted scripts produced spreadsheets that detailed file modifications and author contributions. Using this data, we generated a scatter plot to visualize the frequency of file modifications over time. The generated spreadsheets and the data used for this analysis are available for review.