

# Executive Summary

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Project: RootBeer

Link to Forked repository

<https://github.com/EthanZ23/Group-2.git>

## Overview

The RootBeer Security Library is a critical component of our mobile security strategy, providing root detection capabilities for Android applications. Today's summary will focus on:

- Development Activity over the last period
  - How much work is being done, who's done the most work overall, the developers that left the project, and what they were doing before leaving?

## Development Activity

RootBeer has seen consistent activity within the past few months, with regular commits and contributions from both internal and external developers, including but not limited to: bug fixes, feature enhancements, and security improvements.

## Key Metrics

Developers Involved:

- Top 3 contributors:
  1. Scott Alexander-Bown
  2. grubeli
  3. Artsem Kurantsou

Developer Departure:

- 6 developers have since left the project, as seen from the latest file activity of only being active within the 0-150 week range. The most common source files these developers began on or worked on last were RootBeer.java and toolChecker.cpp. Source files were determined via the file extension of one of these: '.py', '.java', '.c', '.cpp', '.h', '.js', '.go', '.rb', '.kt' extensions. The latest that these specific files were last worked on by anyone was between the 300-350 (week) period (see figure 1 on the next page for scatterplot).

## Useful Git Command Analysis

The git commands that were particularly useful throughout this lab were:

- git log
- git checkout -b <branch>
- git push origin <branch>

The command git log is essential for looking into the commit history of a repository. This command provides a detailed list of commit history that helps identify and understand commit frequency, not only from one person. The other two commands were more focused on helping manage branches and pushing changes in a reliable and easy-to-remember way. Checking out to a branch, it's key for isolating changes

and working on specific files or creatures without affecting the main branch. The push command made it more accessible for collaboration and review from others (contributors or reviewers).

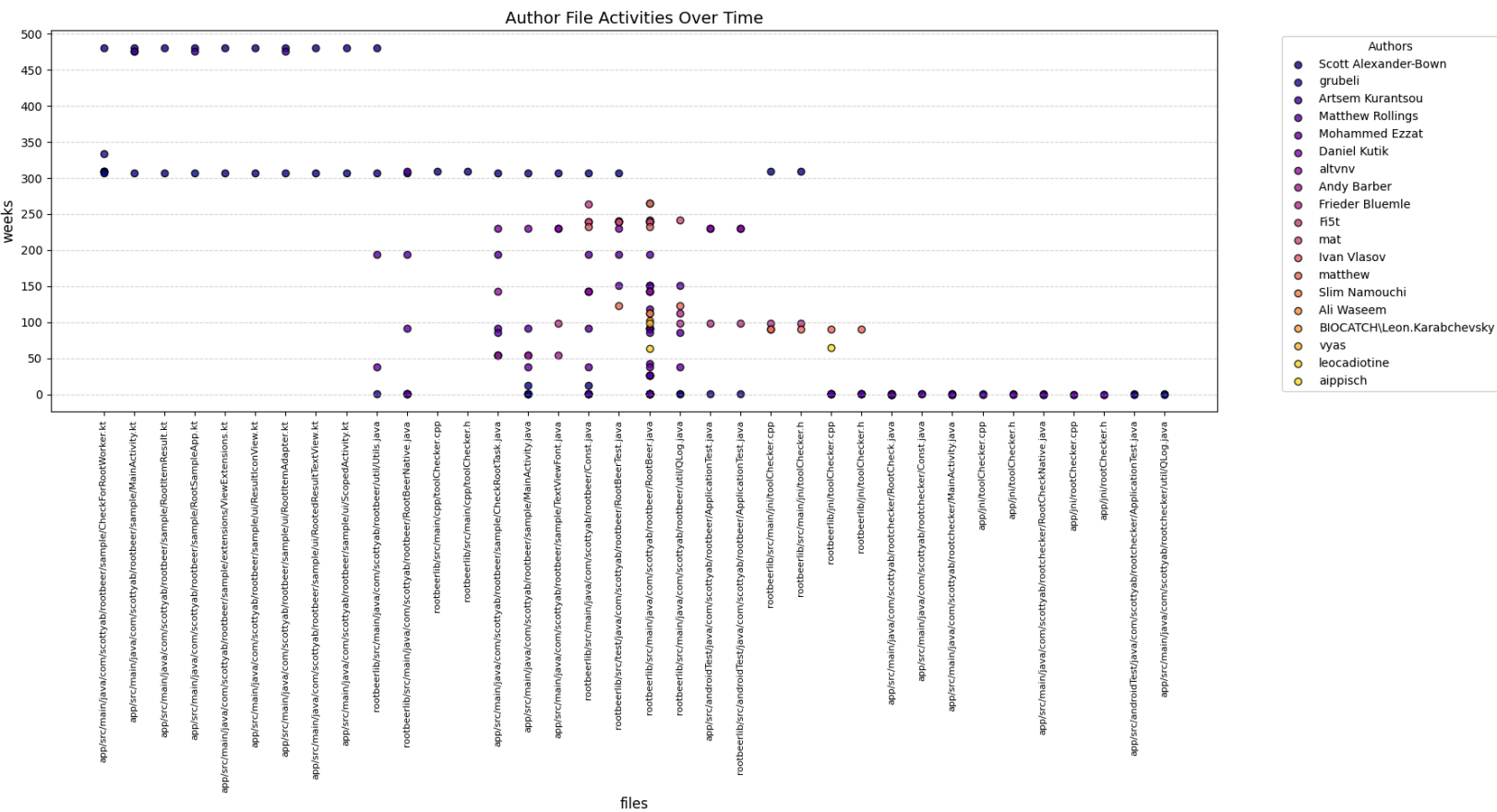


Figure 1.