

Executive Summary

Introduction

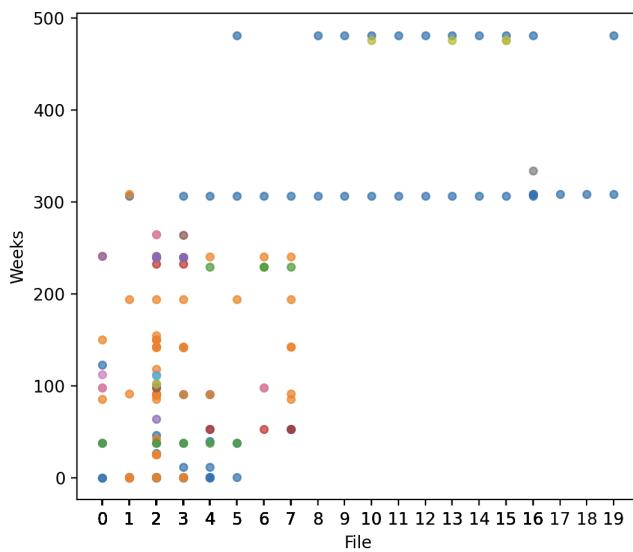
This paper acts as a status report for the file touches found for every source file on the GitHub repository <https://github.com/scottyab/rootbeer/>. It utilizes findings from Python scripts, which can be found at, that extract the information via GitHub API and plotted via Matplotlib. Git commands were leveraged for further efficiency and analysis.

Key Findings

- Analysis shows two development phases: backend (Java) and app development (Kotlin).
- Numerous commit authors lack a login handle, alluding to deleted GitHub accounts.
- This project has reemerged after a hiatus, with most authors not returning.

Repository Analysis

As we should focus on purely source files, we parsed only files in directories titled “main,” which mostly aligns with the files found under “Languages” on the GitHub page. Post-extraction, we see 20 touched source files over the span of approximately 500 weeks.



Files	Encoded	Files	Encoded
.../QLog.java	0	.../ScopedActivity.kt	8
.../RootBeerNative.java	1	.../RootedResultTextView.kt	9
.../RootBeer.java	2	.../RootItemAdapter.kt	10
.../Const.java	3	.../ResultIconView.kt	11
.../MainActivity.java	4	.../ViewExtensions.kt	12
.../Utils.java	5	.../RootSampleApp.kt	13
.../TextViewFont.java	6	.../RootItemResult.kt	14
.../CheckRootTask.java	7	.../MainActivity.kt	15
.../toolChecker.h	17	.../CheckForRootWorker.kt	16
.../toolChecker.cpp	18	.../CMakeLists.txt	19

We see weeks 0-300 focused on Java and C/ C++ files. Conversely, weeks 300-500 focused mainly on Kotlin files. Additionally, terminal outputs showcase missing login handles for users: **grubeli**, **mat**, **BIOCATCH\Leon.Karabchevsky**, and **Mohammed Ezzat**.

Conclusion

A reemergence of commits show a return to the project, despite minimal authors returning or have lost their accounts. Throughout this analysis, Git commands were leveraged for seamless debugging and organization. For instance, creating separate workflows via “git branch” and documenting progress with “git commit” proved to be essential for software development.