



InsightVis: Peer Review #2



Background - The class

- CPSC 310 is a project-heavy course, and a requirement of the Computer Science Major
- Roughly 180 or 360 students per term working in pairs, meaning we have 90 to 180 teams



Background - The project

- Students are tasked to build a simple data storage and query language system
- Students are marked by their project's ability to pass a suite of automated tests



Background - The data

- We have records of test results for all the students commits (100MB for one term)
- We also have their git repositories, which means entire project histories (separately on GitHub)
- One major challenge was be pre-processing this data



Target use cases

- Enable course staff/TAs to get an overview of how the class is doing
- Identify exceptional or struggling teams
- Find correlations between project qualities and performance
- Provide an overview of how an individual team is doing to guide TA help
- (Stretch) Learn more about the test suite used in the course to identify improvements

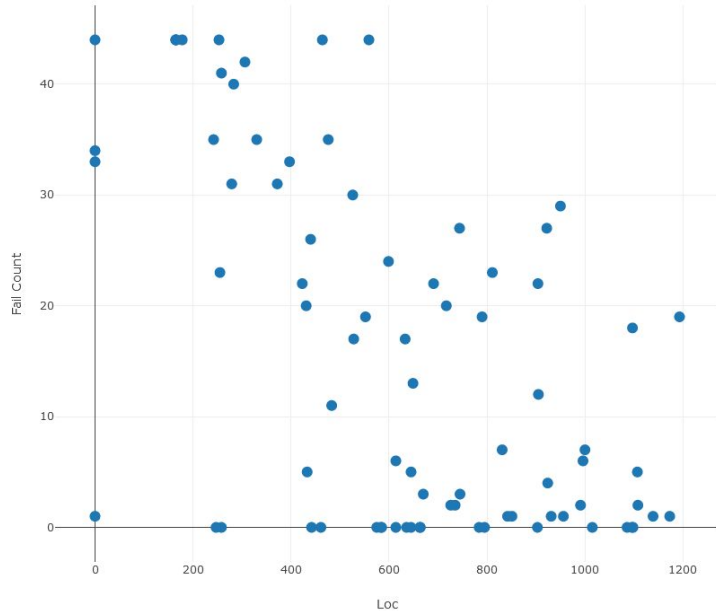
Class Overview

InsightVis

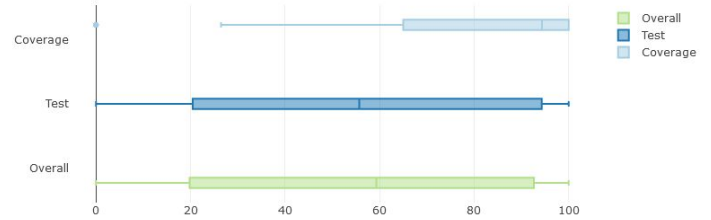
D1 D2 Class Team

Select X: Select Y:

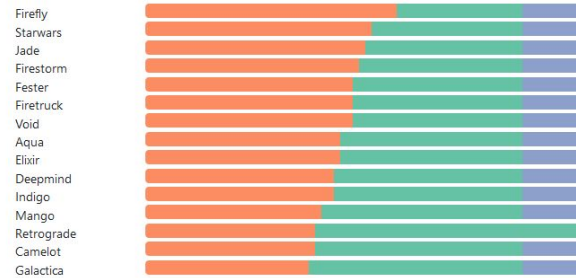
Figure for D1 shows correlation between Loc Vs Fail Count



Test, coverage and overall score summaries



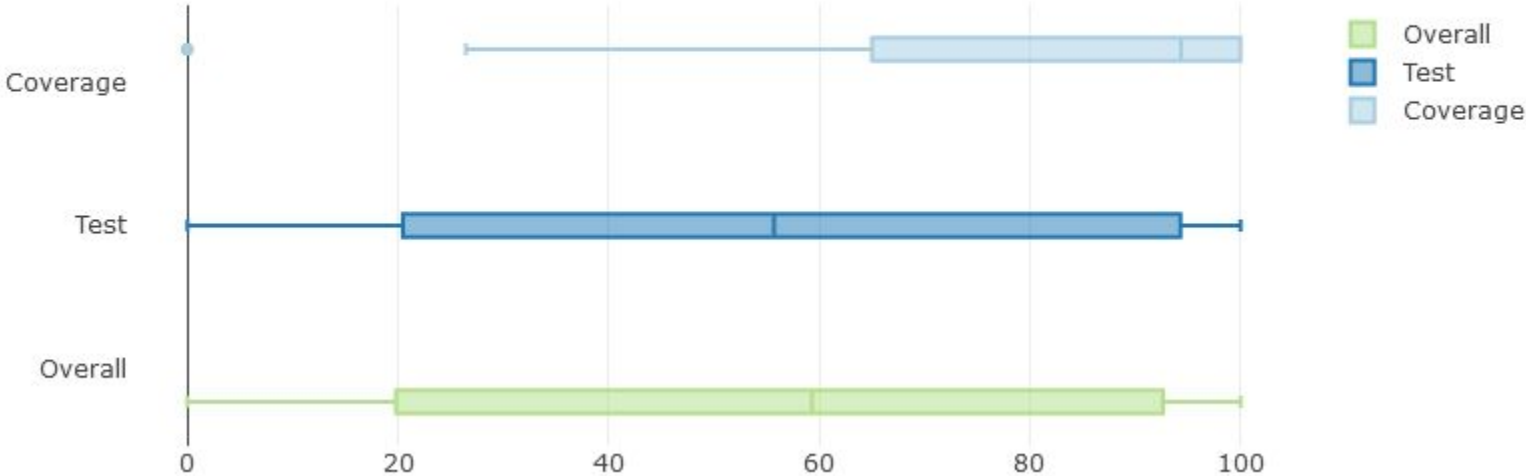
Top 15 Failed Tests For D1



Global Stats



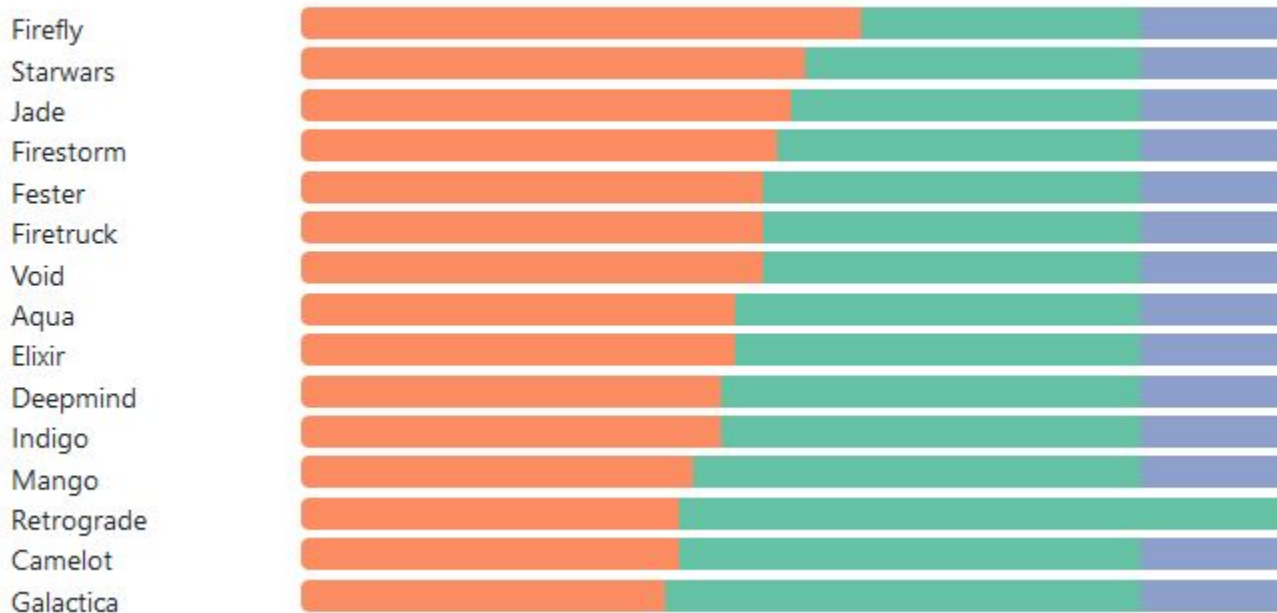
Test, coverage and overall score summaries



Most failed tests



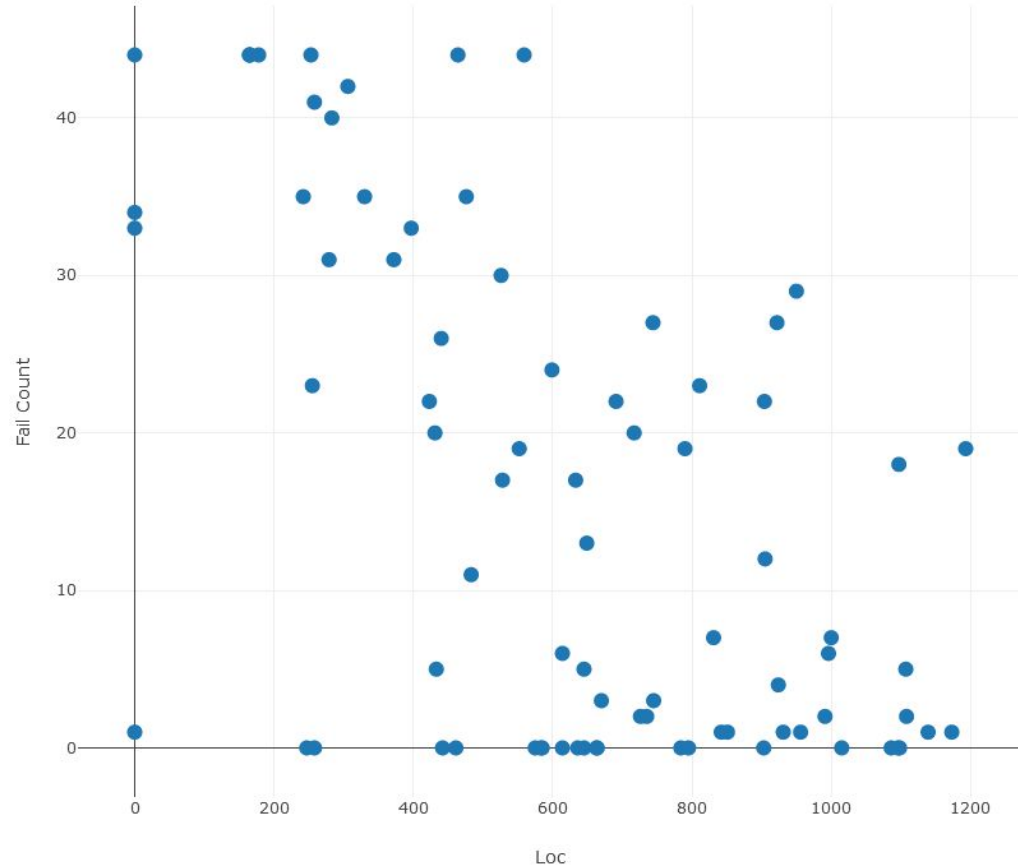
Top 15 Failed Tests For D1



Scatterplot



Figure for D1 shows correlation between Loc Vs Fail Count



Team view



Test History



Cluster Status

