CSE 403
Software Engineering

Automated Software Testing

Today

- Recap the Git bisect exercise

- Test automation: UI testing and mock-based testing

Recap: git bisect exercise

Basic Statistics

Basic Statistics is a Java-based GUI program that computes statistics on a set of numbers. This implementation is intended to be used in a `git bisect` exercise.

How to build Basic Statistics and run its tests from the terminal:

Run these commands from the Basic Statistics root directory, which contains the *build.gradle* build file.
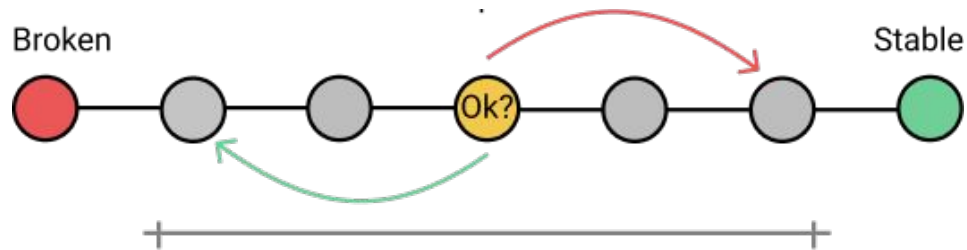
1. Run `./gradlew compileJava` to compile Basic Statistics.

2. Run `./gradlew build` to compile and run tests.

3. Run `./gradlew clean` whenever you want to clean up the project (i.e., delete all generated files).

git --fast-version-control   Type / to search entire site...

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7.10 Git Tools - Debugging with Git

Debugging with Git

In addition to being primarily for version control, Git also provides a couple commands to help you debug your source code projects. Because Git is designed to handle nearly any type of content, these tools are pretty generic, but they can often help you hunt for a bug or culprit when things go wrong.
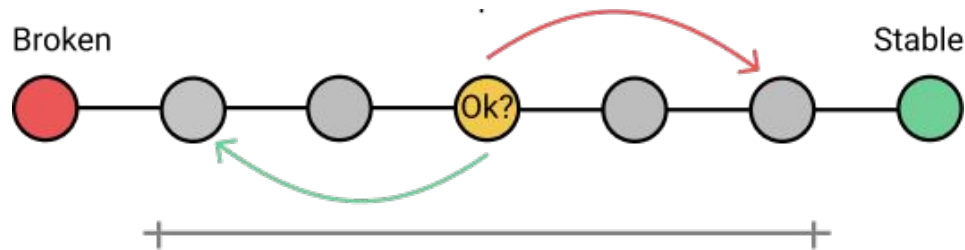
Recap: git bisect exercise
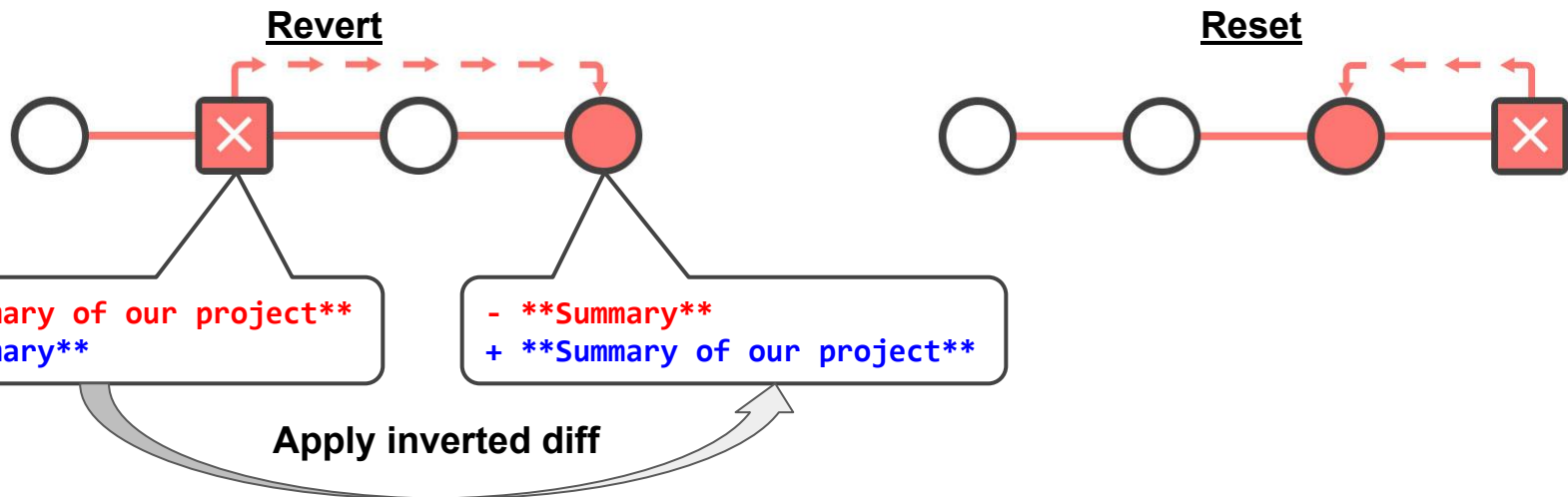
- **Git bisect time complexity is always O(log(n))**

Broken ... Stable
Ok?

Recap: git bisect exercise

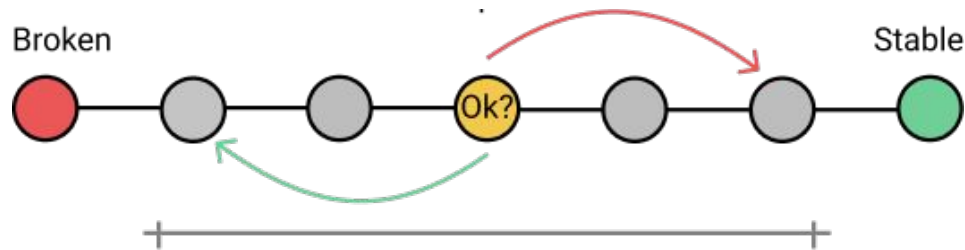- **Git bisect time complexity is always O(log(n))**

- **Git revert vs. git reset**
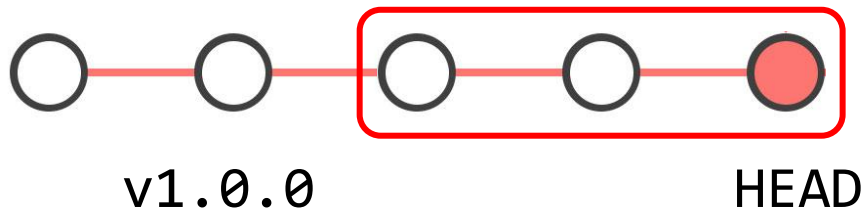
Recap: git bisect exercise

- **Git bisect time complexity is always O(log(n))**

- **Git revert vs. git reset**

- `git rev-list v1.0.0..HEAD (or HEAD ^v1.0.0)`

Automated Software Testing: webdriver

https://github.com/rjust/testing-ui

Automated Software Testing: mocking

https://github.com/rjust/testing-mock