# USER GUIDE

# TEST CODE REVIEW

Aditya Jain

B.Tech. Computer Science And Engineering

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# 1 Getting started

The tool has two components to it. One is the chrome extension and second is the local server which will be running on your local machine.This guide will tell you how to install and start using the tool.

## 1.1 Prerequisites

To start the tool the below softwares or packages should be installed

- java
- nodejs
- tsc (optional)
- Google chrome

To get started with the installation of the prerequisites the following links are to be followed:

Java : `https://docs.oracle.com/javase/10/install/toc.htm`
Nodejs : `https://nodejs.org/en/download/`
Google chrome : `https://support.google.com/chrome/answer/95346?co=GENIE.Platform%3DDesktop&hl=en-GB`
Typescript : `https://www.npmjs.com/package/typescript`

For installing typescript you will need npm and that comes along with nodejs.

## 1.2 Setting up the Environment

- **Setting up the environmental variable**
  Set the following variables in your local machine:

  CLIENT_PORT : 3000
  CLIENT_HOST : 127.0.0.1
  If you know how to set them up then you can go to the next step else follow as below:

  **For Linux based systems**

use vim .bashrc from terminal and set them as follows:

```
CLIENT_PORT="3000"
export CLIENT_PORT
CLIENT_HOST="127.0.0.1"
export CLIENT_HOST
```

Then exit by saving (esc then :wq)
**For Windows systems** Open the System properties by properties(my pc)→ Advanced System Settings(control panel)→ Environment Variables(System properties)
Now you can either edit the variables if they are already there or create new using the new button .

- **Cloning the repo**
  Clone the tool's repo using git with the following link:
  `https://github.com/aditya0212jain/git_extension.git`

- **Installing Extension**
  After installing chrome enable the developers mode in it from the extension menu .
  Do this by going to the *chrome://extensions*.
  Now click on load unpacked and select git_extension/theExtension
  That's it the extension is installed in your chrome browser !!

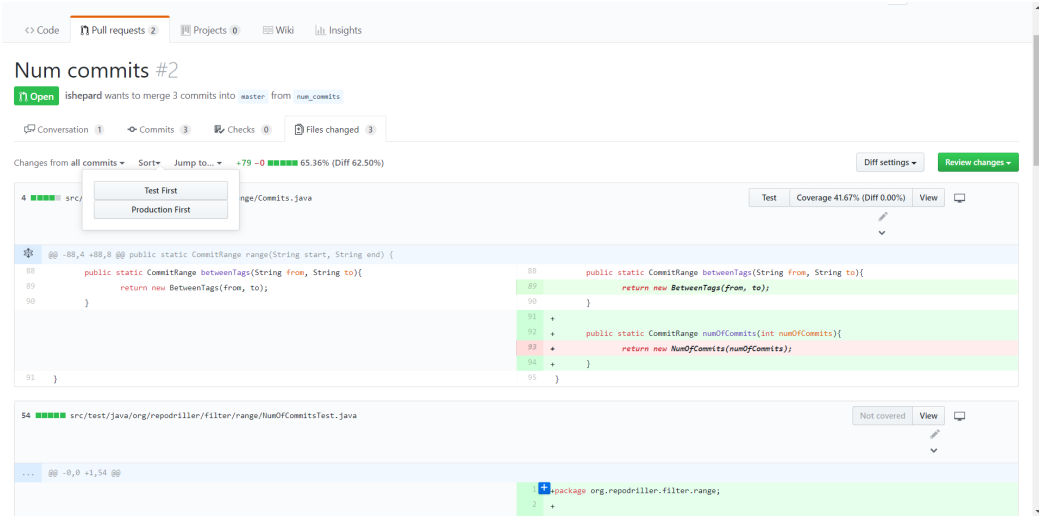
- **Starting server**
  go to *git_extension/server/myClient*
  and use the command : *node start.js*

That's it ! Now you have succefully completed the installation of the tool on your local machine

# 2 Features

## 2.1 Sort

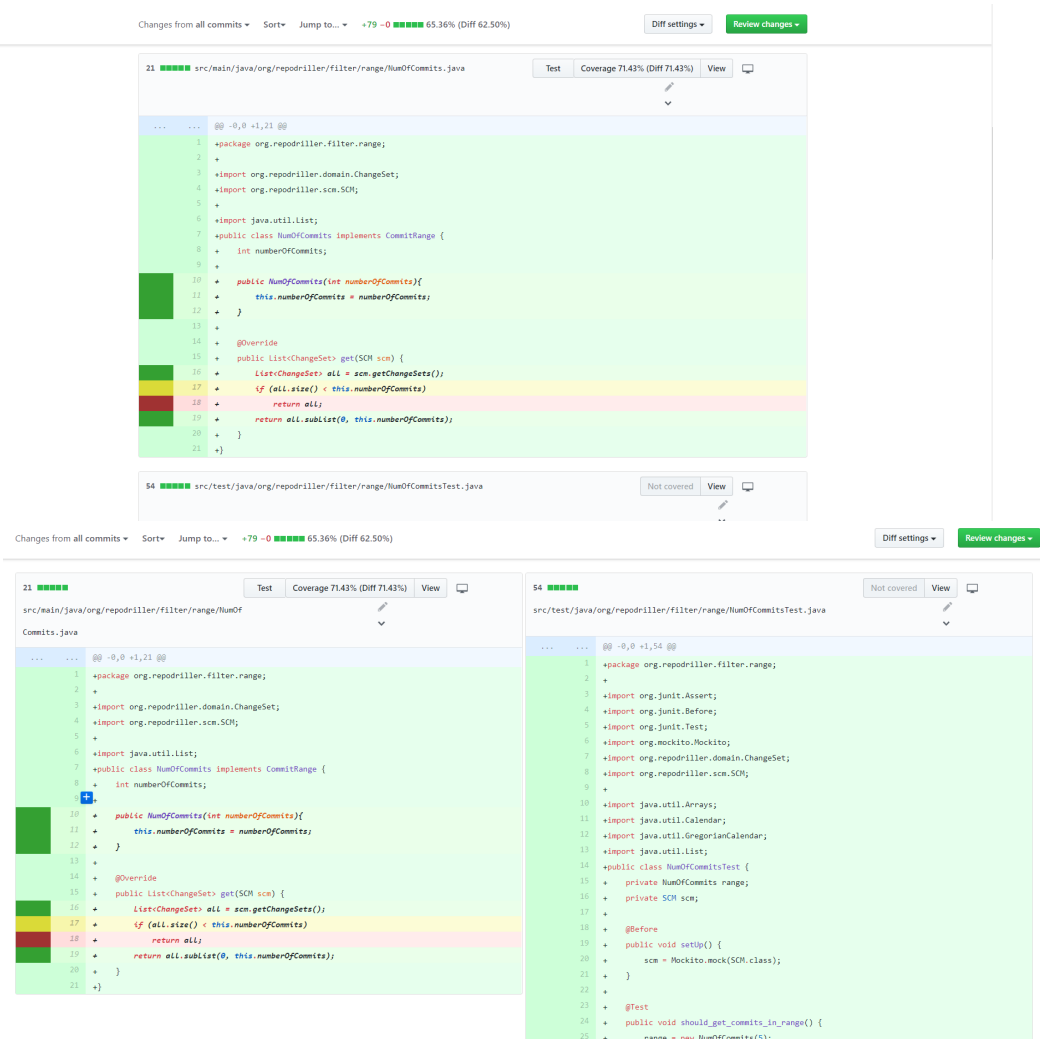
The tool provides the option to sort your files in the PRs as with all the production files first and then test files or vice versa.




As shown in the figure above you can choose how you want to sort your files .

## 2.2 Test View

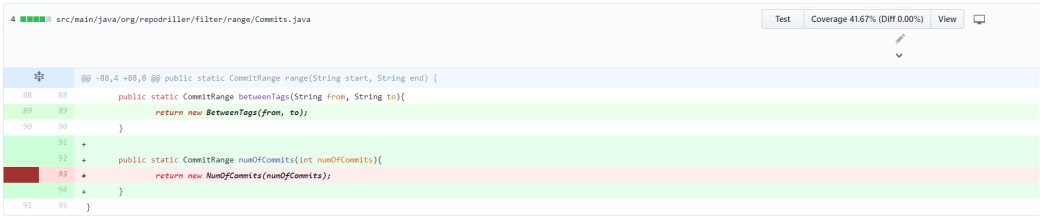
By clicking on the test buttons on the production file you can comfortably view both its test file by its side.




Also for the best experience use it in the unified view of the PR. If the file doesn't have any test file present in the PR then nothing will happen.

## 2.3 Code coverage

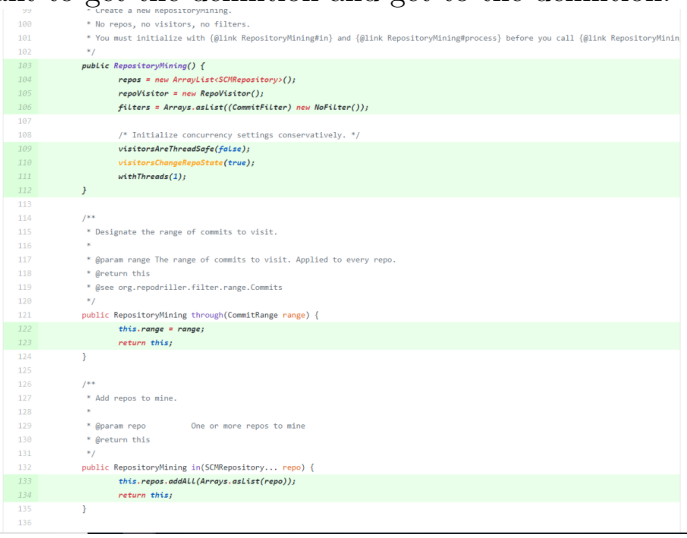
The code coverage is provided for both PRs and blob files . Even if you want to explore more of the file in the PR by expanding it you are sure to get the code coverage.



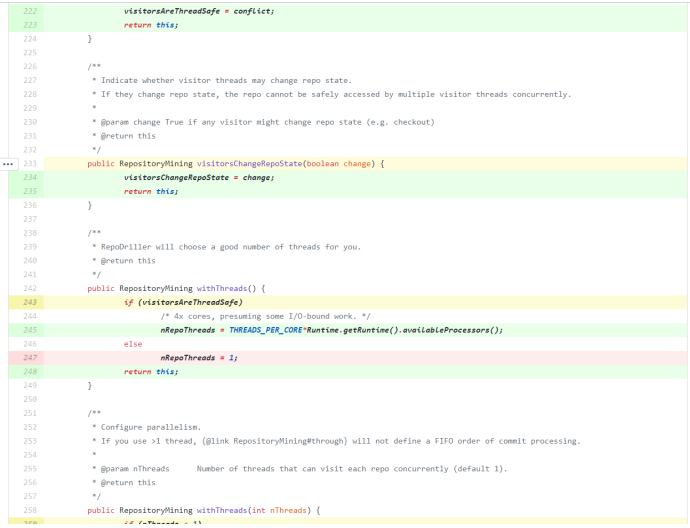

The code coverage is provided by using the codeCov tool.

## 2.4 Navigation

Now review code on github comfortably by using go-to-definition feature. Now no need to look for the definition or scrolling tirelessly to understand the code while reviewing.Just click the variable , class ,function or others for which you want to get the definition and get to the definition.




When clicking on the *visitorsChangeRepoState* it became orange , after clicking:

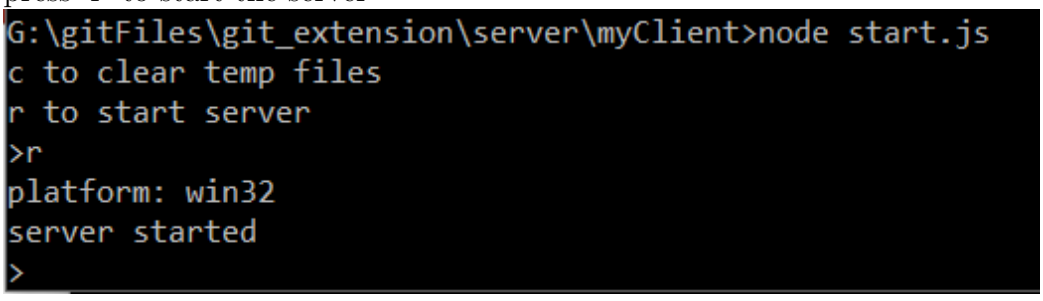


You get to the definition whether it is in this file or any different file in the repo. Code navigation works in blob as well as Pull requests files and for all the branches of any repo.

# 3 Using the Tool

## 3.1 Start the server

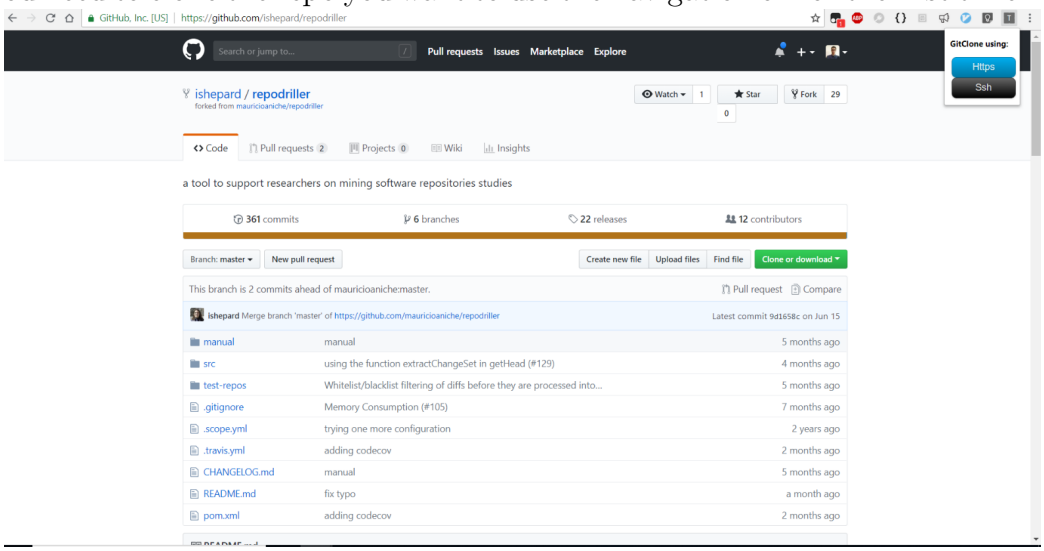
go to *git_extension/server/myClient*
and use the command : *node start.js*
After starting the server you can either press 'c' to delete the temp files or press 'r' to start the server




After getting the above message you are ready to go.

## 3.2 Cloning Repo

You need to clone the repo you want to use the navigation on for the first time



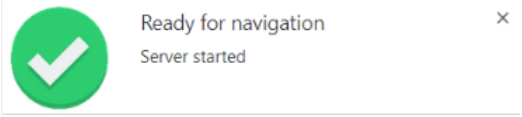

Click on your desired method for cloning . After that you will receive the notification that the cloning is complete.

## 3.3 Using features

Using sort and test features is very easy , you have to just click on their respective buttons . For further info you can look at the features section of this guide.
For navigation , if you open any file or page you will receive a notification when the server is ready and after that you can start navigating by simply clicking on the code as they turn orange.
*Note*: If the code is not turning orange try to reload the page for once.

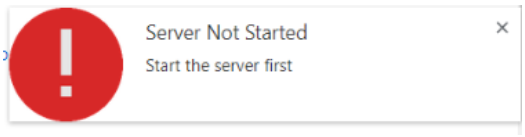
# 4 Notifications And Their Meaning

- **Server Started**

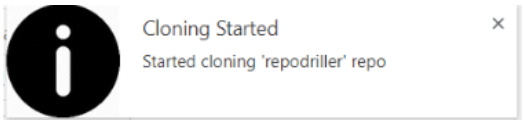


It is shown when the server is ready for the current opened file to take queries.When opening any new page you should wait for this notification to show before making any definition queries.

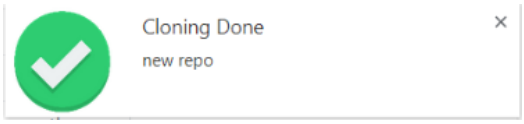
- **Server Not Started**
  It is shown when the local server is not running . Start by using the node start.js command in console then pressing 'r'.



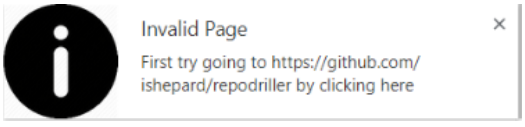

- **Cloning Started**
  It is shown when the cloning request is sent to the local server.



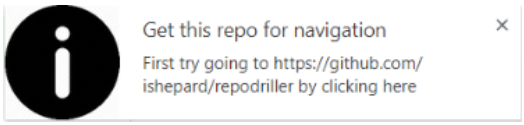

- **Cloning Done**
  When the cloning is done this is shown. If the repo was already on the local machine then it is updated otherwise cloned newly.




- **Invalid Page**
  When you try to use the clone but you are on wrong page then this notification is shown.If you are in any repo then it will show you the suggested page to go to clone it . By clicking the notification in that case you can directly go to the cloning page.



- **Get This Repo**
  When you make any query from the blob or pull files for navigation but the repo is not in the local machine this notification is shown along with a link to the repo page from where you can clone it.




- **Reload**
  This comes when you have recently cloned a repo and made a query in an already opened page.So the page is not updated. So reload the page and wait for the server ready notification to work again.