

<https://github.com/itc-wgtools/cPP-Tools>

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## Branches

What are they?

<https://help.github.com/en/articles/about-branches>

<https://help.github.com/en/articles/github-glossary#branch>

<https://git-scm.com/book/en/v2/Git-Branching-Branches-in-a-Nutshell>

*In short:* It is a copy of the main code/document which you can make changes in.

In this way you can have the changes not affect the original, thus preserving the “working version”, and review such changes among your peers before choosing to or not to commit/merge/add those changes to the new main or working version.

- Parallel version of a repository
- Used to isolate development work without affecting other branches in the repository.
- Each repository has one default branch, and can have multiple other branches.
- You can merge a branch into another branch using a pull request.

## Pull Requests

What are they?

<https://help.github.com/en/articles/about-pull-requests>

*In short:* It is a request to ask other users/members to “pull” your changes or your version of the repository into theirs, as such a pull request. When someone makes a pull request, they are asking to add changes to the main or working version of the code or document.

- Let's you tell others about changes you've pushed to a branch
- Once a pull request is opened, you can discuss and review the potential changes
- Choose to merge changes into the base branch or even request the changes be modified.

## Review a Pull Request

### Pull Requests > Add your review > Review Changes

The screenshot shows the GitHub Pull Request review interface. The top navigation bar includes links for Code, Issues, Pull requests, Projects, Wiki, Security, and Insights. The 'Pull requests' tab is selected. A yellow banner at the top states 'woodbe requested your review on this pull request.' with an 'Add your review' button. Below this, the pull request title 'CPP Template Completed #3' is shown, along with a green 'Open' button and a summary: 'woodbe wants to merge 15 commits into master from develop'. A 'Conversation' section shows a comment from 'woodbe' dated 15 days ago. A 'Changes' section shows a diff for 'README.md' with line numbers 4 to 11. A 'Review changes' button is highlighted in yellow. Three callouts are present: [1] points to the 'Pull requests' tab; [2] points to the 'Add your review' button; [3] points to the 'Review changes' button. The 'Review changes' button has a dropdown menu with options: 'Leave a comment', 'Attach files by dragging & dropping, selecting or pasting them.', 'Comment', 'Approve', and 'Request changes'.

[1] Go to Pull Requests then select from the listed files

[2] If a member explicitly requested your review this button will appear, click it

[3] Click review changes to either add a comment, approve, or request something be changed from the pull request

Alternatively you can “Start a review” on individual lines by hovering with your mouse to the right of the line number till a “+” sign appears. Clicking on the “+” icon which appears will allow you to add a comment or start a review. A review is a more formal way to ask members to give more scrutiny to the item or issue at hand.

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Permalink (Reference Link) – How to manually generate from browser

**Pull Requests > Files Changed > Code/File Options ["..."] > View File > Blame > Click a Line > Copy URL**

**[1] Pull Requests**

**[2] Files Changed**

**[3] Options for a specific file below**

**[4] View File**

**[5] Blame View**

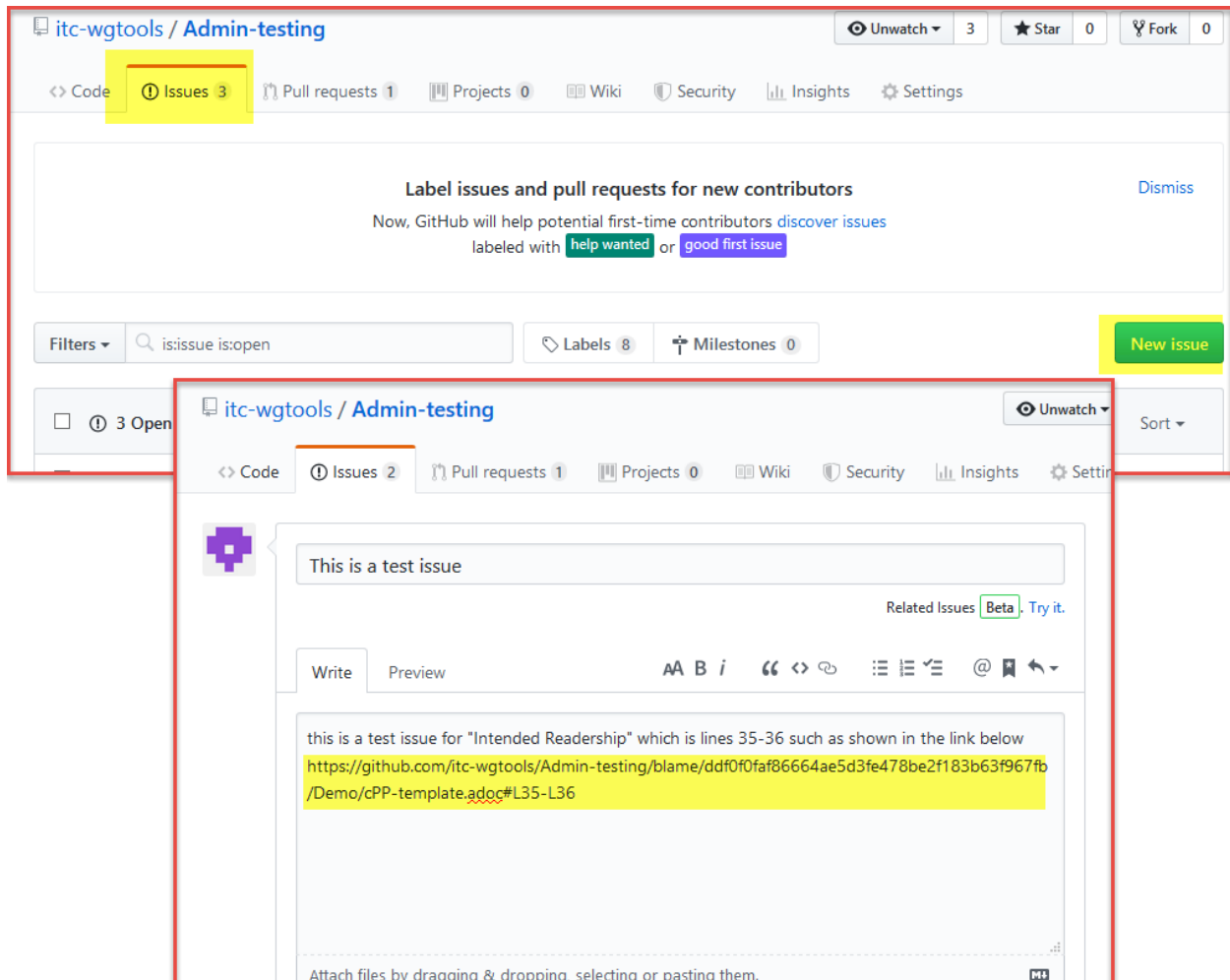
**[6] Click on a specific line, it will update the URL with "#linenumber"**

**[7] Copy the entire URL to be your referencing link. You can modify the URL directly to specify multiple lines such as: "#L4-L7" means Line 4 to Line 7**

The screenshots show the GitHub interface for the repository `itc-wgtools / cPP-Tools`. The first screenshot shows the `Pull requests` tab. The second screenshot shows the `Files changed` tab for pull request #3. The third screenshot shows the file `Templates/PP-config-template.adoc` with a dropdown menu open. The fourth screenshot shows the `View file` option selected. The fifth screenshot shows the `Blame` view for the file. The sixth screenshot shows the URL updated to include the line number `#L4`. The seventh screenshot shows the final URL `https://github.com/itc-wgtools/cPP-Tools/blame/a50f2de0728c70ffaeb68ed93726611726f50ea2/Templates/PP-config-template.adoc#L4-L7`.

## File an Issue

### Issues > New Issue > Write Comment + Permalink



## Comment Directly on Changes

### Pull Requests > Select Code/File Below > Files Changed > Hover Next to line, click on “+”

You can comment on individual lines by hovering with your mouse to the right of the line number till a “+” sign appears. Clicking on the “+” icon which appears will allow you to add a comment or start a review. A review is a more formal way to ask members to give more scrutiny to the item or issue at

hand.

