

# GIT Tag and Releases

## GIT Tag and Releases

Added new file-

```

Feature1.java
1 package Pages;
2
3 public class Feature1 {
4
5     public static void main(String[] args) {
6         System.out.println("feature one is developed");
7     }
8
9 }
10

```

```

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
nothing to commit, working tree clean

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    src/Pages/Feature1.java

nothing added to commit but untracked files present (use "git add" to track)

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git add .

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "feature 1 is added"
[master 9825329] feature 1 is added
 1 file changed, 9 insertions(+)
 create mode 100644 src/Pages/Feature1.java

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |

```

## Tag a commit-

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git tag v1.0

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```

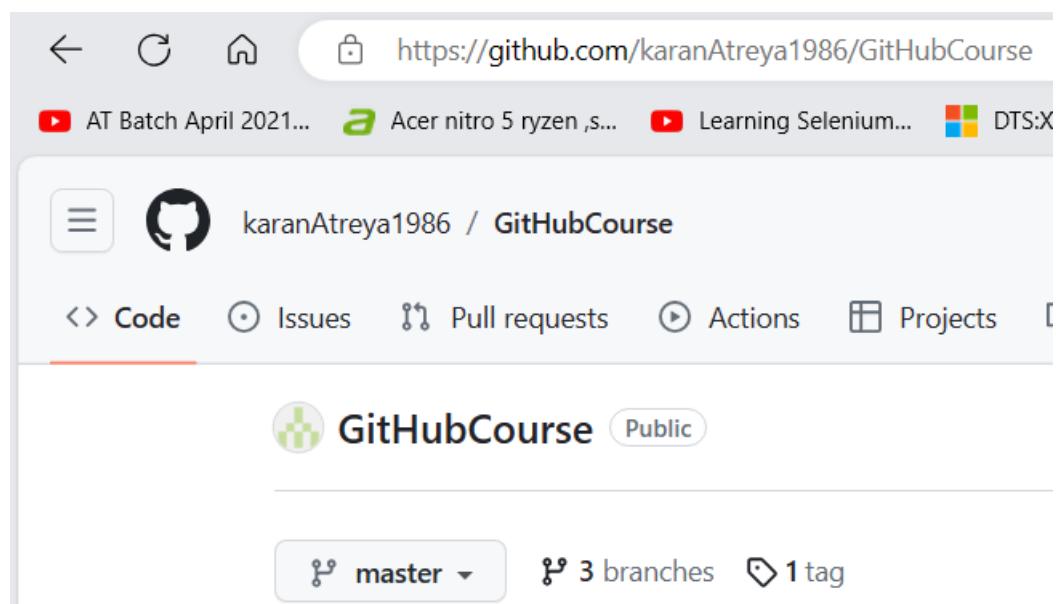
## Push tag to remote-

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git push origin v1.0
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 548 bytes | 548.00 KiB/s, done.
Total 5 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/karanAtreya1986/GitHubCourse.git
 * [new tag]           v1.0 -> v1.0

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$
```

## Refresh git-

Tag created.



Click on it and we can see the tags here.

The screenshot shows a browser window with the URL <https://github.com/karanAtreya1986/GitHubCourse/tags>. The GitHub interface is visible, with the 'Code' tab selected. Below it, the 'Tags' tab is highlighted. A single tag named 'v1.0' is shown, along with its creation timestamp ('3 minutes ago'), commit count ('9825329'), and download links for 'zip' and 'tar.gz'.

Every tag has zip files for code download.

Now add more code to the same file-

The screenshot shows the Eclipse IDE interface. On the left is the 'Package Explorer' view, which displays a project named 'GitHubPractice' containing a 'src' folder with a 'Pages' package. Inside 'Pages', there are several Java files: Feature1.java, HomePage.java, LoginPage.java, RegPage.java, RegPageActions.java, and SearchPage.java. On the right is the 'Feature1.java' editor view, showing the following code:

```

1 package Pages;
2
3 public class Feature1 {
4
5     public static void main(String[] args) {
6         System.out.println("feature one is developed");
7
8         System.out.println("feature two| is developed");
9     }
10
11 }
12

```

```

MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   src/Pages/Feature1.java

no changes added to commit (use "git add" and/or "git commit -a")

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git add .

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "feature 2 is added"
[master 2a8c1e0] feature 2 is added
 1 file changed, 2 insertions(+)

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git tag v2.0

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git push origin v2.0
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 12 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 498 bytes | 498.00 KiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/karanAtreya1986/GitHubCourse.git
 * [new tag]      v2.0 -> v2.0

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$
```

Refresh git-

The screenshot shows a GitHub repository page for 'karanAtreya1986/GitHubCourse'. The URL in the address bar is <https://github.com/karanAtreya1986/GitHubCourse/tags>. The page navigation includes back, forward, and home buttons, along with a search bar and a refresh button. The main content area shows the repository's navigation menu with 'Code' selected. Below the menu, there are tabs for 'Releases' and 'Tags', with 'Tags' currently active. Two tags are listed: 'v2.0' and 'v1.0'. Each tag entry includes a timestamp, a download link for a ZIP file, and a download link for a TAR.GZ file.

Tag	Timestamp	ZIP	TAR.GZ
v2.0	now	<a href="#">zip</a>	<a href="#">tar.gz</a>
v1.0	5 minutes ago	<a href="#">zip</a>	<a href="#">tar.gz</a>

If we don't add double quotes to commit message then our command is stuck and we need to press "control+c" to write it again-

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "Feature three is developed"
>
> q
> ^C

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git commit -m "feature three is developed"
[master 7042519] feature three is developed
 1 file changed, 2 insertions(+)
```

Created one more tag-

The screenshot shows a GitHub repository named 'GitHubCourse' owned by 'karanAtreya1986'. The 'Tags' tab is active. Three tags are listed:

- v3.0** (created 1 minute ago) - Includes download links for zip and tar.gz files.
- v2.0** (created 3 minutes ago) - Includes download links for zip and tar.gz files.
- v1.0** (created 8 minutes ago) - Includes download links for zip and tar.gz files.

Creating release version of the application-

Click release and click create release.

The screenshot shows a GitHub repository page for 'GitHubCourse'. The 'Releases' tab is selected. A message states 'There aren't any releases here' with a link to 'docs'. A green button says 'Create a new release'.

Give details-

The screenshot shows the 'Create a new release' form for version 'v3.0'. It's an 'Existing tag'. The description is 'application framework release with three features'. The 'Write' tab is active, showing the description and a list of features: '-- feature 1', '-- feature 2', and '-- feature 3'.

Pre-release –

Means you want to release in beta or qa, in short before production.

The screenshot shows the GitHub 'New Release' interface. At the top, there are tabs for 'Write' (selected) and 'Preview'. Below the tabs is a toolbar with various icons for text styling. The main area contains a draft release note:

```
application framework release with three features
-- feature 1
-- feature 2
-- feature 3
```

Below the note is a dashed line for attaching files. A large button below the note area says "Attach files by dragging & dropping, selecting or pasting them." To the right of this button is another section for attaching binaries.

At the bottom of the form, there is a checkbox labeled "Set as a pre-release" with the subtext "This release will be labeled as non-production ready". Below the checkbox are two buttons: "Publish release" (highlighted in green) and "Save draft".

Click publish.

Released-

The screenshot shows the GitHub project page for 'GitHubCourse'. The top navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The main content area displays the released version 'v3.0'.

The release details are as follows:

- Released by:** karanAtreya1986
- Commits since release:** 0 commits
- Version:** v3.0
- Published:** 7042519 minutes ago

The release note content is identical to the draft:

```
application framework release with three features
-- feature 1
-- feature 2
-- feature 3
```

Under the 'Assets' section, there are two items:

- Source code (zip)** - Published 5 minutes ago
- Source code (tar.gz)** - Published 5 minutes ago

Go back to project.

Click tags

The screenshot shows a browser window with the URL <https://github.com/karanAtreya1986/GitHubCourse>. The repository name is **GitHubCourse**, and it is listed as **Public**. Below the repository name, there are buttons for **master**, **3 branches**, and **3 tags**.

Click release

Then we can see our source code.

The screenshot shows the **Releases** tab of the GitHub repository. A new release titled "application framework release with three features" has been created and is marked as **Latest**. The release notes mention "application framework release with three features" and list "feature 1", "feature 2", and "feature 3". Under the **Assets** section, there are two files: "Source code (zip)" and "Source code (tar.gz)", both uploaded 6 minutes ago.

Its marked with latest word which means that is the recent release version which is ready.

## Real time example-

Search for below:

Google search results for "gecodriver download". The search bar shows the query. Below it are several filter buttons: For android, Windows, News, Videos, Books, Images, Maps, and Flights. The main content area displays the following information:

About 149,000 results (0.34 seconds)

Showing results for **geckodriver** download  
Search instead for [gecodriver download](#)

**GitHub**  
<https://github.com/mozilla/geckodriver/releases> ::

**Releases · mozilla/geckodriver**  
 Apr 3, 2023 — **geckodriver** uses the temporary directory to store Firefox profiles created during the run. This issue can now be worked around by using the -- ...

Similar kind of release page prepared-

Screenshot of the Mozilla/geckodriver GitHub releases page (<https://github.com/mozilla/geckodriver/releases>). The page shows the following details:

Code Issues Pull requests Actions Security Insights

**Releases** Tags

Find a release

Apr 3  
**whimboo**  
 v0.33.0 (a80e5fd61076)  
 c0521a0

**0.33.0** Latest

**0.33.0 (2023-04-03, a80e5fd61076)**

**Known problems**

- Startup hang with Firefox running in a container (e.g. snap, flatpak):*  
 When Firefox is packaged inside a container (like the default Firefox browser shipped with Ubuntu 22.04), it may see a different filesystem to the host. This can affect access to the generated profile directory, which may result in a hang when starting Firefox. Workarounds are listed in the geckodriver [usage documentation](#).
- Potential hang with moz:debuggerAddress capability set to true :*

Similar kind of tags-

The screenshot shows a browser window with the URL <https://github.com/mozilla/geckodriver/tags>. The page displays the 'Tags' section of the repository. The tags listed are:

- v0.33.0 (Verified)
- v0.32.2 (Verified)
- v0.32.1 (Verified)
- v0.32.0 (Verified)
- v0.31.0 (Verified)

Each tag entry includes a timestamp, a commit hash, and download links for zip and tar.gz formats.

To see list of tags-

```
MINGW64:/e/Naveen_GIT_Training/GIT_Training/GitHubPractice
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git tag
v1.0
v2.0
v3.0

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```

Delete tag-

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git tag -d v2.0
Deleted tag 'v2.0' (was 2a8c1e0)

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```

```
karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ git tag
v1.0
v3.0

karan@LAPTOP-H560VJTV MINGW64 /e/Naveen_GIT_Training/GIT_Training/GitHubPractice (master)
$ |
```

But tags already pushed to remote end so it will not get removed from there-

The screenshot shows a GitHub repository page for 'karanAtreya1986/GitHubCourse'. The 'Tags' tab is selected in the navigation bar. Three tags are listed:

- v3.0** - Created 15 minutes ago, commit 7042519, zip and tar.gz links available.
- v2.0** - Created 17 minutes ago, commit 2a8c1e0, zip and tar.gz links available.
- v1.0** - Created 22 minutes ago, commit 9825329, zip and tar.gz links available.