Chapter 9. Tag

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Chapter 9-1. 실습 환경 만들기

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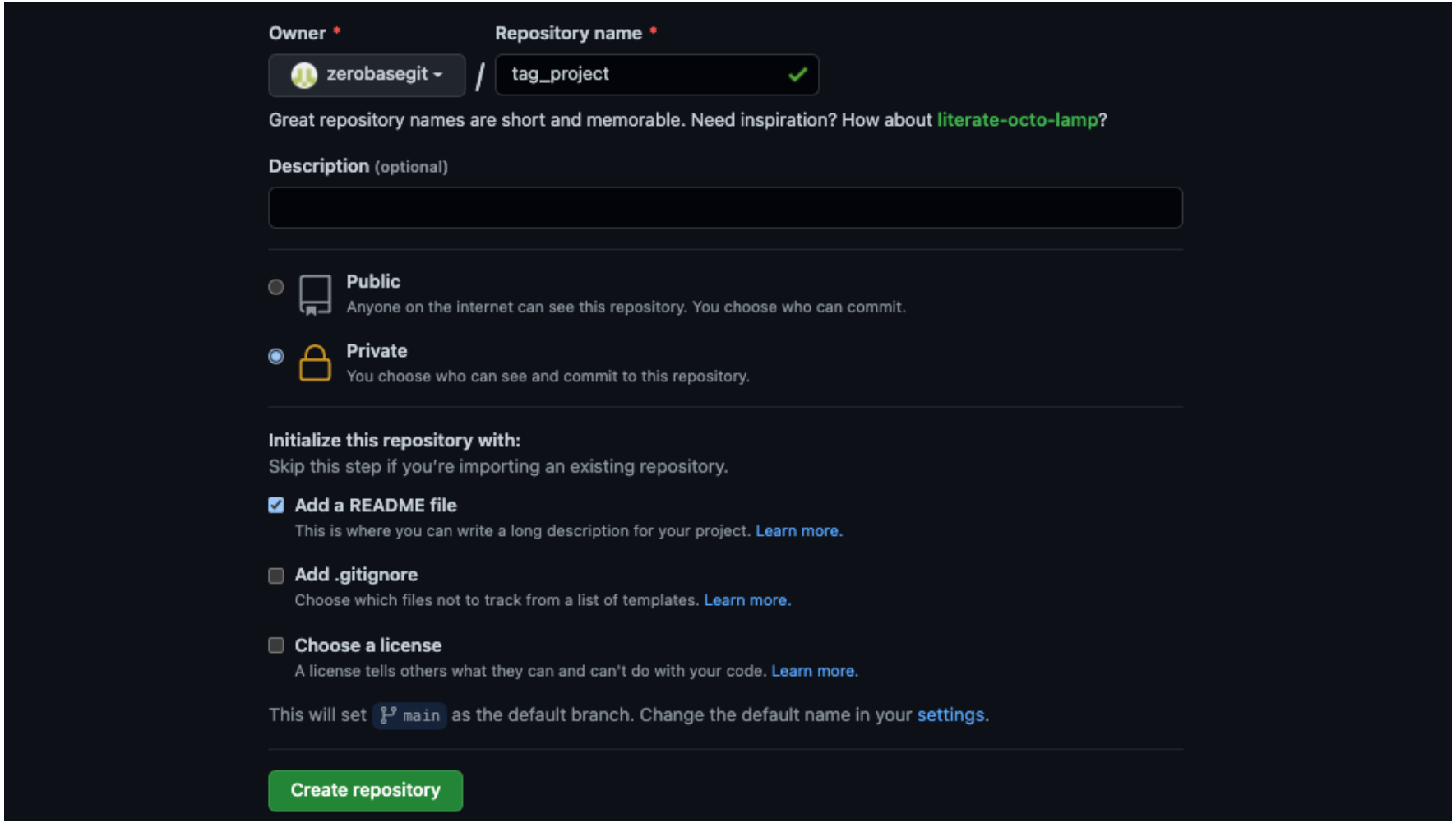
9-1. 실습 환경 만들기

Remote Repository 생성



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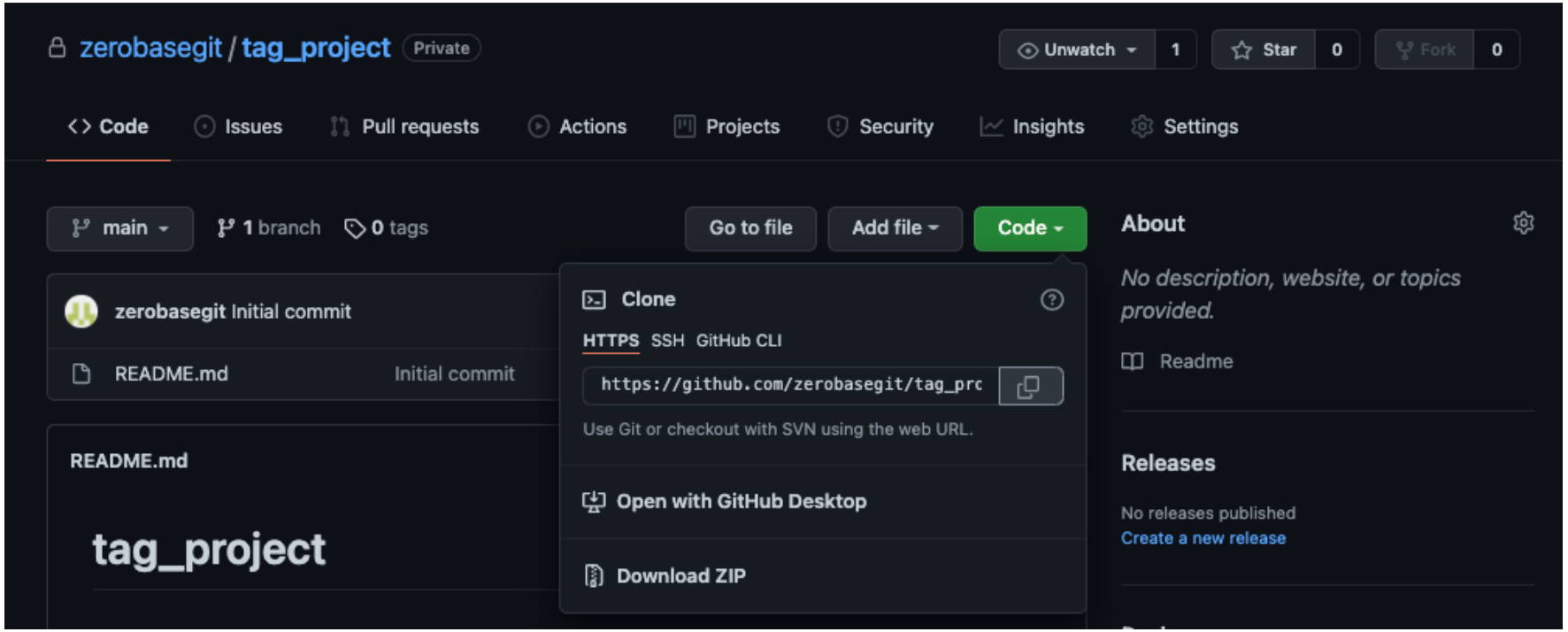
8-1. 실습 환경 만들기

Remote Repository 주소 복사



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Local Repository 복사

git_ws 폴더 하위

```
git_ws % git clone https://zerobasegit:
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@
github.com/zerobasegit/tag_project.git

Cloning into 'tag_project'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
```

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파일 생성 후 commit 3개 만들기

- 파일 이름 : hello.txt
- commit 1 : Hello, world.
- commit 2 : Hello, noma.
- commit 3 : Hello, zerobase.

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8-1. 실습 환경 만들기


```
git_ws % cd tag_project
tag_project % cat > hello.txt
hello, world.
tag_project % git add hello.txt
tag_project % git commit -m "commit1" hello.txt
[main 20d37a8] commit1
 1 file changed, 1 insertion(+)
 create mode 100644 hello.txt
tag_project % cat > hello.txt
hello, noma.
tag_project % git commit -m "commit2" hello.txt
[main 18b2e87] commit2
1 file changed, 1 insertion(+), 1 deletion(-)
tag_project % cat > hello.txt
hello, zerobase.
tag_project % git commit -m "commit3" hello.txt
[main 56018a5] commit3
 1 file changed, 1 insertion(+), 1 deletion(-)
```

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Remote Repository 에 Push

```
tag_project % git push origin main
Counting objects: 9, done.
Delta compression using up to 8 threads.
Compressing objects: 100% (6/6), done.
Writing objects: 100% (9/9), 788 bytes | 788.00 KiB/s, done.
Total 9 (delta 0), reused 0 (delta 0)
To https://github.com/zerobasegit/tag_project.git
   dfe19e7..56018a5  main -> main
```

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Chapter 9-2. Tag

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9-2. Tag

특정 버전 (Commit) 에 Tag 를 달아놓을 필요가 있을 때 사용 (예 - 버전 릴리즈)

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Git Tag 생성 1
현재 버전에 Tag 달기

```
git tag <tagname>
```

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Git Tag 생성 1 실습
현재 버전 (Commit3) 에 Tag (v0.3) 달기

```
tag_project % git tag v0.3
```

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Tag 확인

```
tag_project % git log
commit 56018a50e3838378d9ec4004d0197dc3314ad00c
 (HEAD -> main, tag: v0.3, origin/main
, origin/HEAD)
Author: zerobasegit <zerobase.git@gmail.com>
Date:   Sun Nov 7 23:48:22 2021 +0900

    commit3

commit 18b2e87cd44fe902566d7cf0a6692e36bae28172
Author: zerobasegit <zerobase.git@gmail.com>
Date:   Sun Nov 7 23:48:07 2021 +0900

   commit2
```

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Git Tag 생성 2

특정 버전에 Tag 달기

```
git tag <tagname> <commithash>
```

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Git Tag 생성 2 실습

특정 버전 (Commit2) 에 Tag (v0.2) 달기

```
tag_project % git tag v0.2 18b2e87cd44fe902566d7cf0a6692e36bae2817
```

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Tag 확인

```
tag_project % git log
commit 56018a50e3838378d9ec4004d0197dc3314ad00c
 (HEAD -> main, tag: v0.3, origin/main, origin/HEAD)
Author: zerobasegit <zerobase.git@gmail.com>
Date:   Sun Nov 7 23:48:22 2021 +0900

    commit3

commit 18b2e87cd44fe902566d7cf0a6692e36bae28172 (tag: v0.2)
Author: zerobasegit <zerobase.git@gmail.com>
Date:   Sun Nov 7 23:48:07 2021 +0900

   commit2

commit 20d37a807afa309fc06772073a7e1c5ae79cb95d
Author: zerobasegit <zerobase.git@gmail.com>
Date:   Sun Nov 7 23:47:47 2021 +0900

   commit1
```

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Git Tag 생성 3

Tag 를 Remote Repository 에 Push

```
git push origin <tagname>
```

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Git Tag 생성 3 실습

Tag 를 Remote Repository 에 Push

```
tag_project % git push origin v0.3
Total 0 (delta 0), reused 0 (delta 0)
To https://github.com/zerobasegit/tag_project.git
 * [new tag]         v0.3 -> v0.3
```

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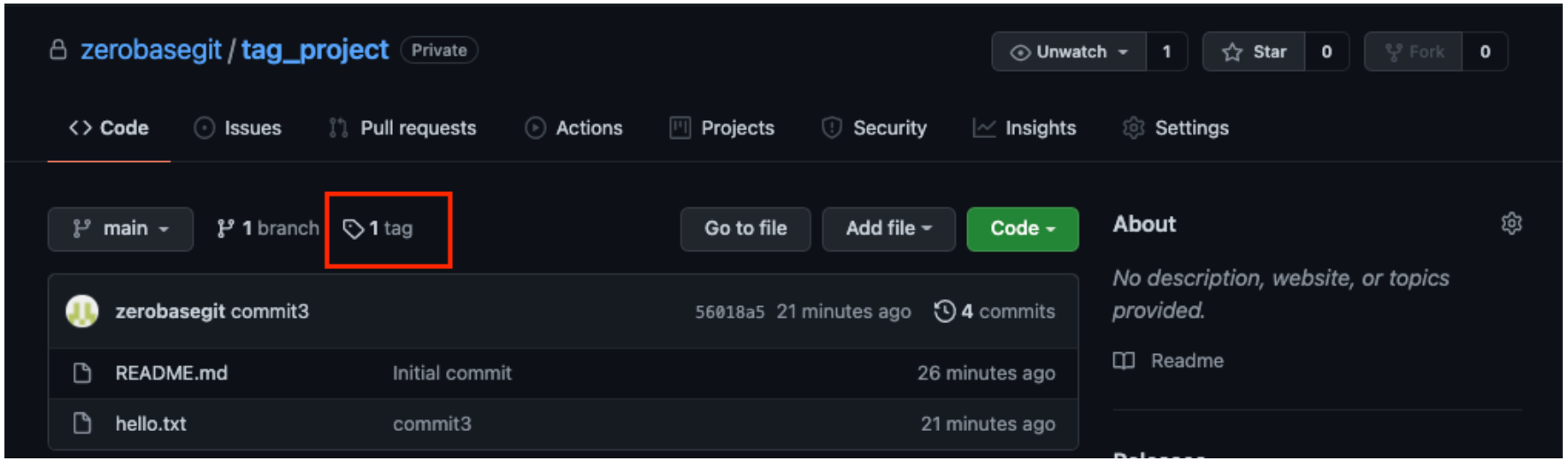
9-2. Tag

Tag 를 Remote Repository 에 Push



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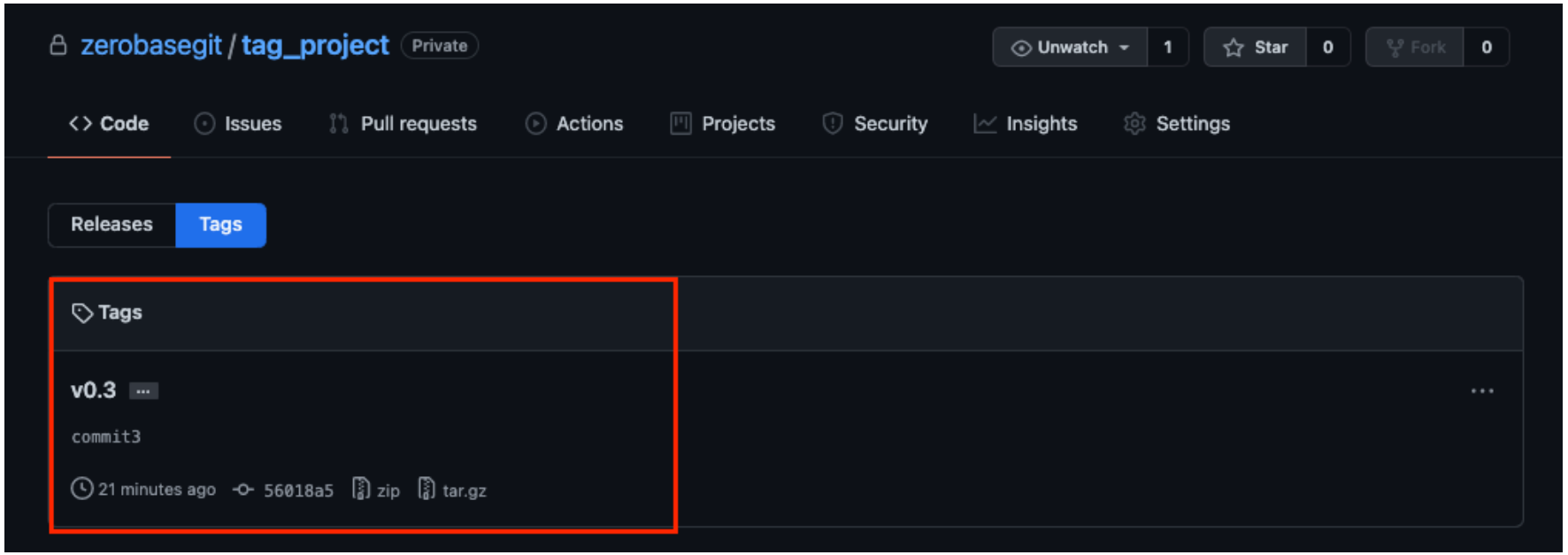
Tag 정보 확인



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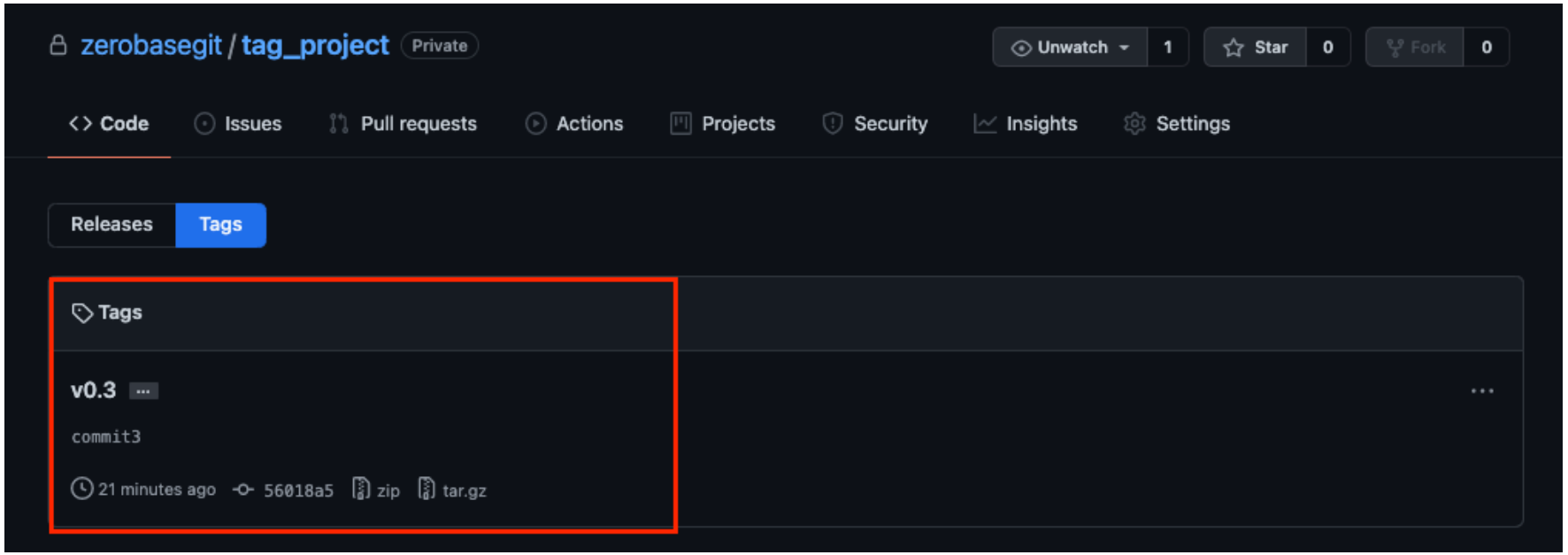
9-2. Tag

Tag 정보 확인



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Git Tag 목록 보기

```
git tag
```

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Git Tag 목록 보기 실습

```
tag_project % git tag
v0.2
v0.3
```

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Git Tag 상세 정보

```
git show <tagname>
```

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Git Tag 상세 정보

```
tag_project % git show v0.2
commit 18b2e87cd44fe902566d7cf0a6692e36bae28172 (tag: v0.2)
Author: zerobasegit <zerobase.git@gmail.com>
Date:   Sun Nov 7 23:48:07 2021 +0900

    commit2

diff --git a/hello.txt b/hello.txt
index af81e4b..a13488d 100644
--- a/hello.txt
+++ b/hello.txt
@@ -1 +1 @@
-hello, world.
+hello, noma.
```

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Git Tag 삭제 1

```
git tag --delete <tagname>
```

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Git Tag 삭제 1 실습

```
tag_project % git tag --delete v0.3
Deleted tag 'v0.3' (was 56018a5)
tag_project % git tag
v0.2
```

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Git Tag 삭제 2

```
git push --delete origin <tagname>
```

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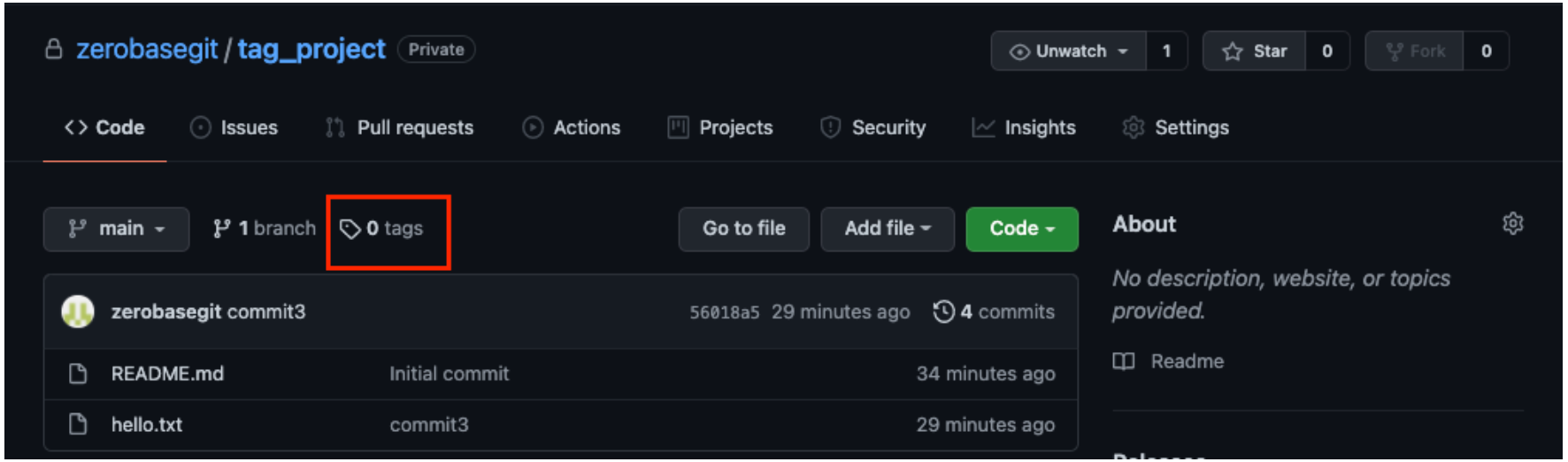
Git Tag 삭제 2 실습

```
tag_project % git push --delete origin v0.3
To https://github.com/zerobasegit/tag_project.git
 - [deleted]         v0.3
```



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혼자 해봅시다

1. tag_project 의 모든 tag 삭제

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2. tag_project 에 tag 달고 tag 목록 및 상세정보 확인

- commit1 : v0.1
- commit2 : v0.2
- commit3 : v0.3

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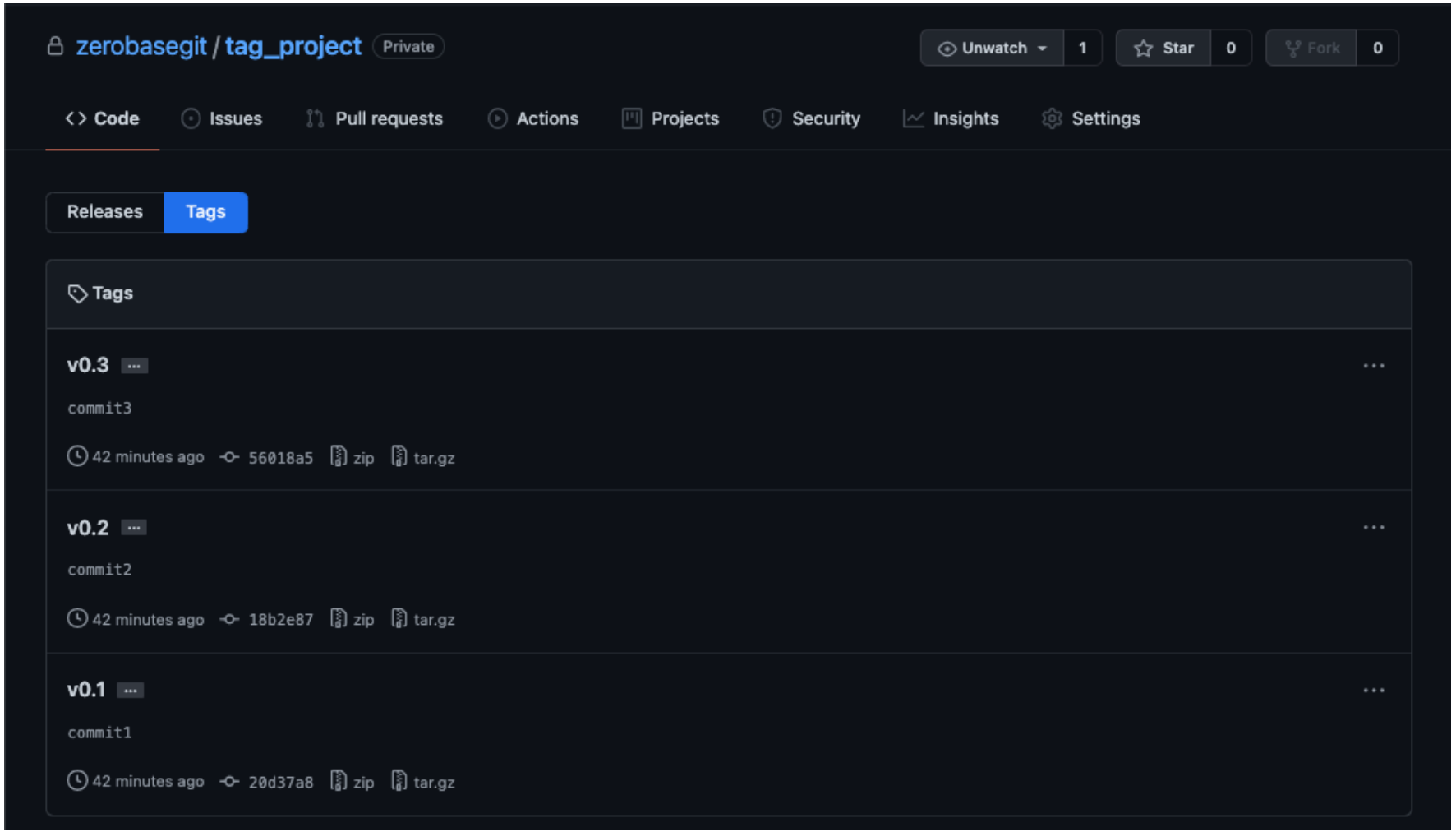
3. Git Tag 전부 Remote Repository 에 Push 하고 확인



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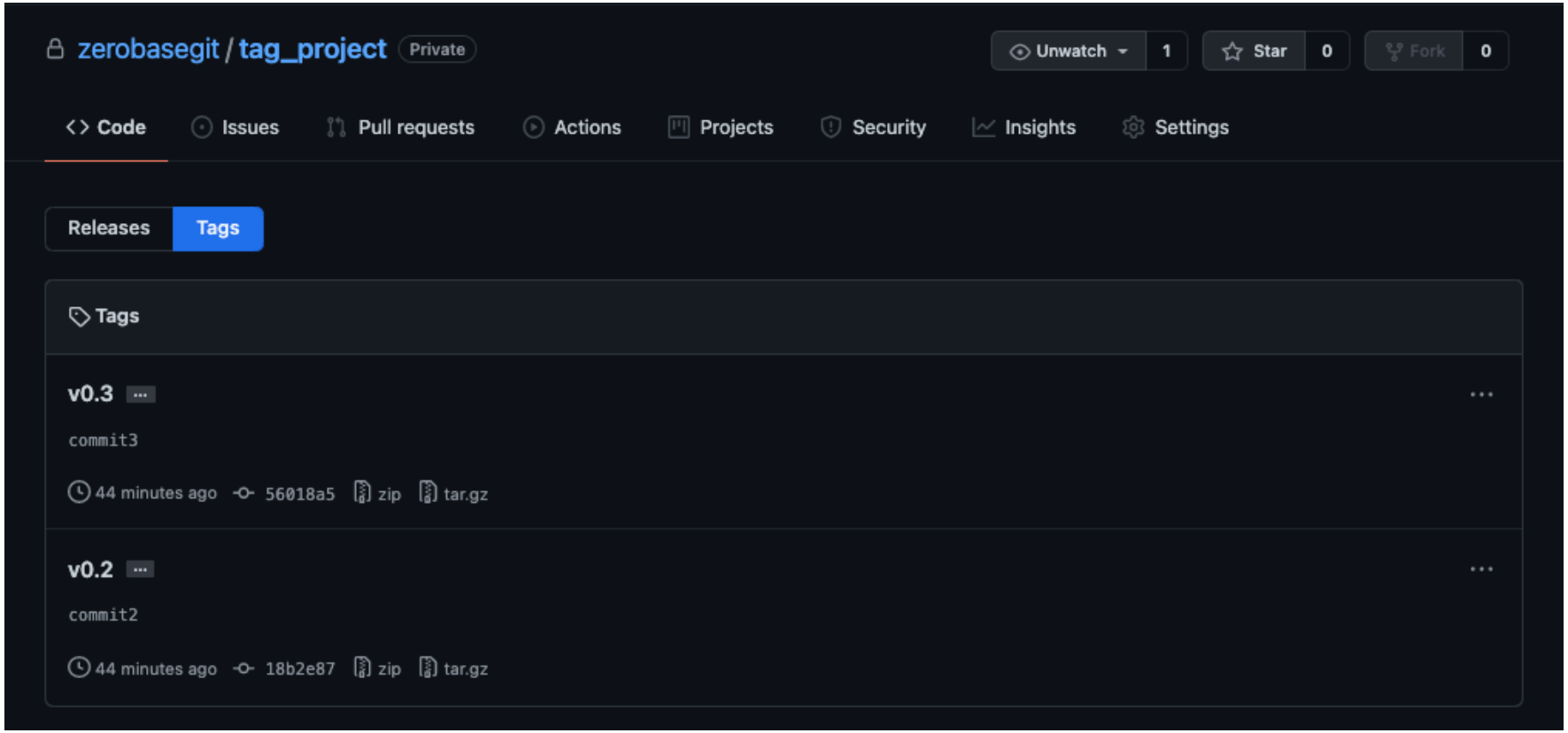
4. V0.1 Tag Local + Remote 에서 지우고 확인



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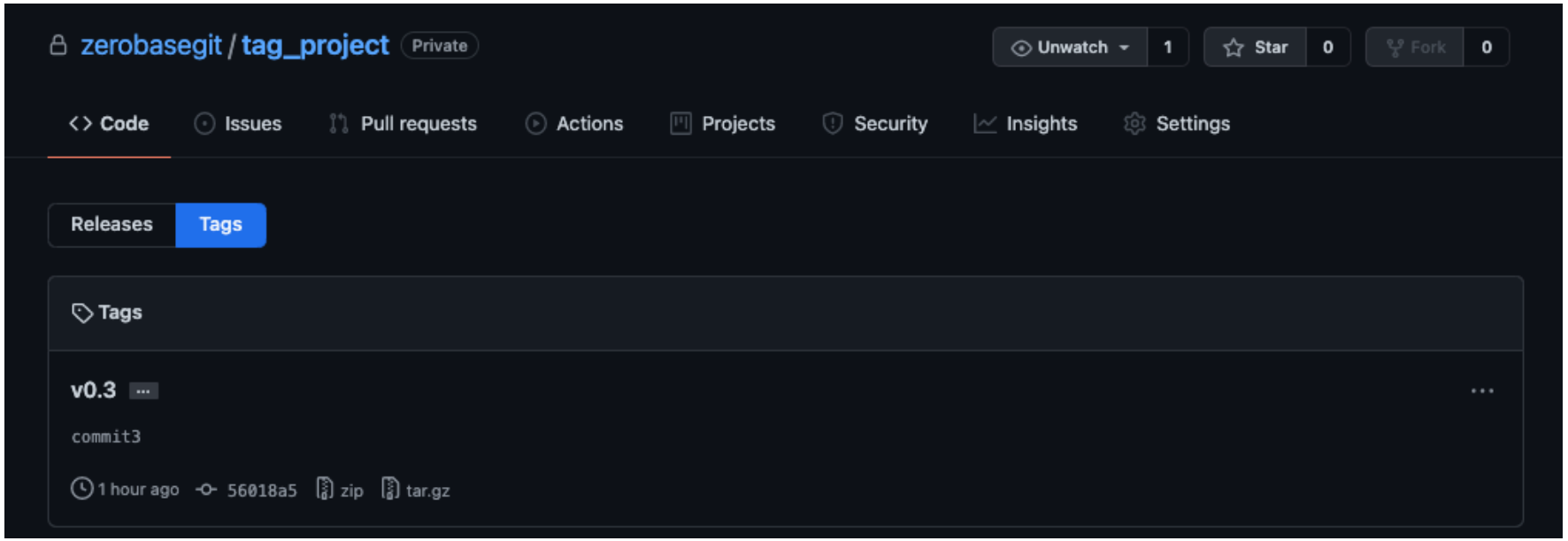
5. V0.2 Tag Local + Remote 에서 지우고 확인



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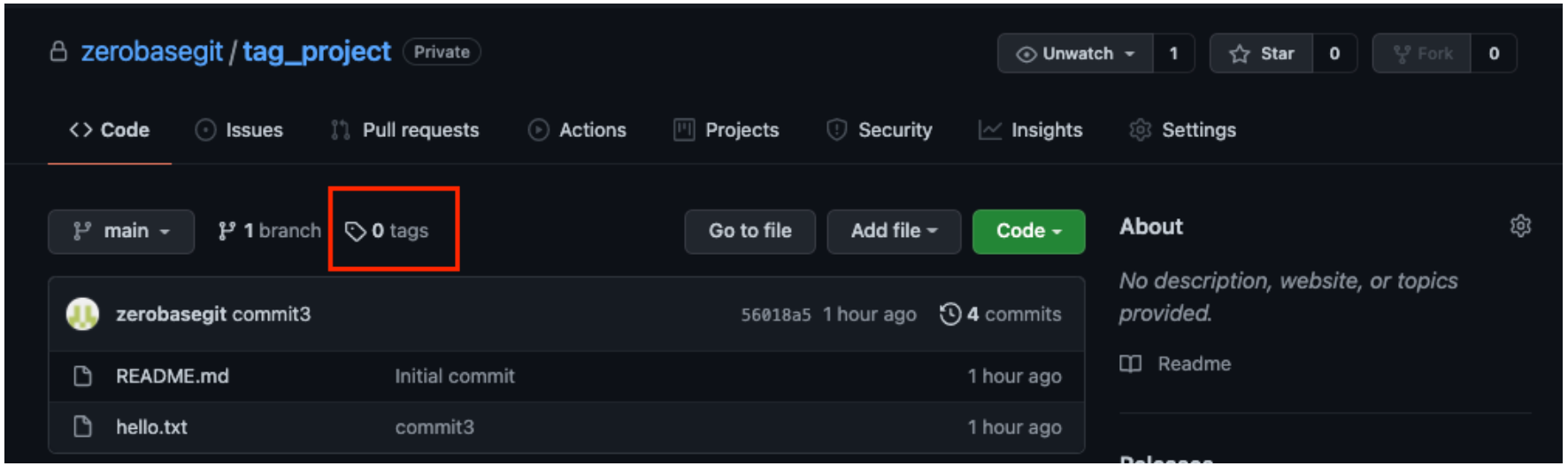
6. V0.3 Tag Local + Remote 에서 지우고 확인



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Good Job!

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