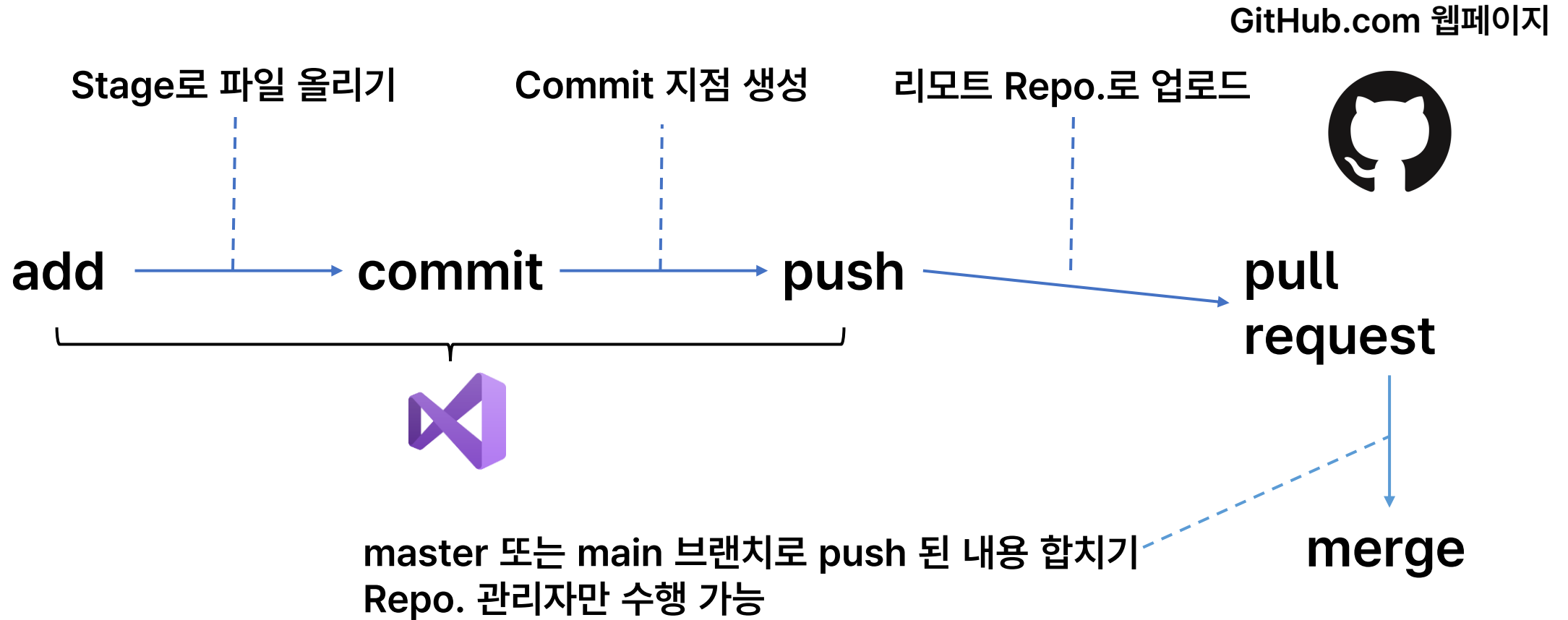
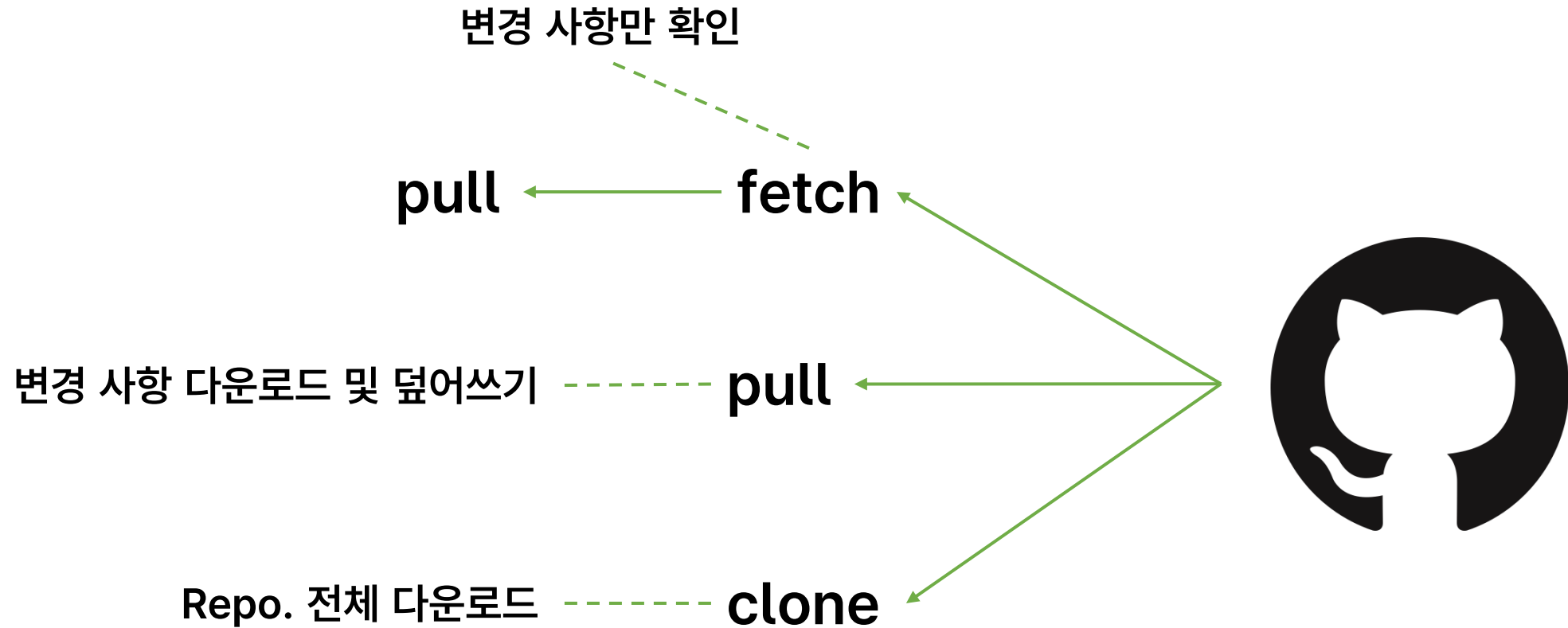


Visual Studio & Git

Git & GitHub



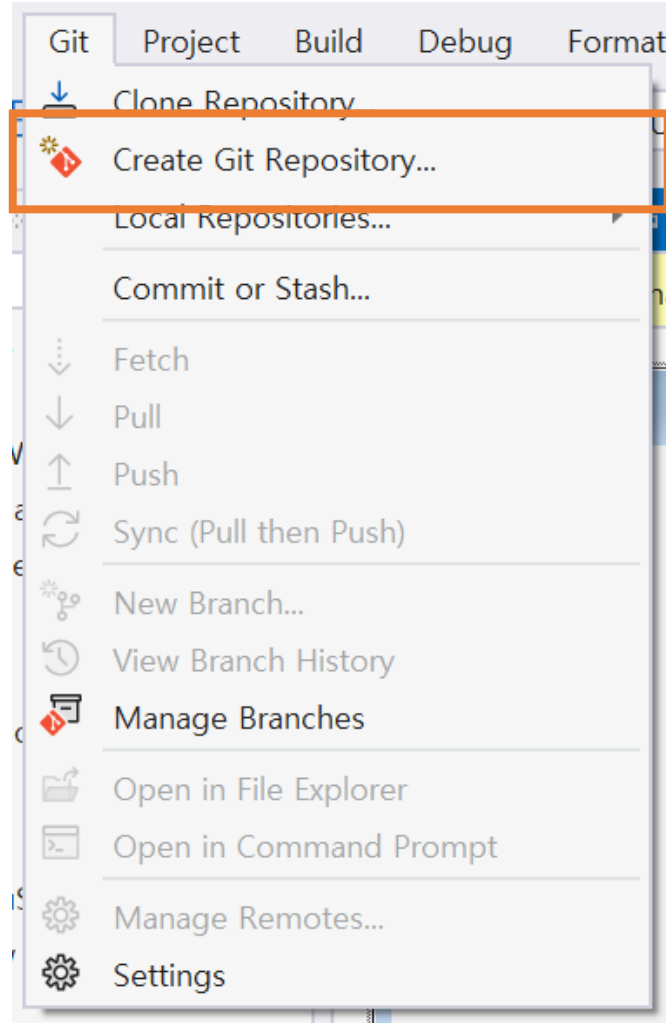
Git & GitHub



VS - GitHub 연동 절차

1. 솔루션을 생성
 2. 솔루션 폴더를 Repo.로 만들기
 3. GitHub에 로그인, 솔루션 이름으로 Remote Repo. 생성
- 위 모든 과정이 Visual Studio 안에서 실행

VS - GitHub 연동



VS - GitHub 연동

Create a Git repository

Push to a new remote

- GitHub
- Azure DevOps

Other

- Existing remote
- Local only

Initialize a local Git repository

Local path *i* C:\Users\Wposco\source\repos\WindowsFormsApp2 ...

.gitignore template *i* Default (VisualStudio)

License template *i* None

☐ Add a README.md *i*

Create a new GitHub repository

Account *i* ff63gf (GitHub) *⚠ Re-enter your credentials*

Owner ff63gf

Repository name *i* WindowsFormsApp2

Description Enter the description of the GitHub repository <Optional>

☒ Private repository *i*

Push your code to GitHub

https://github.com/ff63gf/WindowsFormsApp2

Authorize Visual Studio

Visual Studio by GitHub wants to access your ff63gf account

- Gists Read and write access
- Organizations and teams Read-only access
- Repositories Public and private
- Personal user data Full access
- Workflow Update GitHub Action Workflow files.
- Public SSH keys Read and write access

Authorize github

Authorizing will redirect to http://localhost:14813

만약 웹브라우저가 아닌
어색한 로그인 창이 뜬다면?

VS - GitHub 연동

GitHub 로그인 용 토큰(외부 로그인 전용 비밀번호) 발급 및 로그인

<https://lifefun.tistory.com/161>

Settings / Developer settings

GitHub Apps

OAuth Apps

Personal access tokens

Fine-grained tokens

Beta

Tokens (classic)

Personal access tokens (classic)

Generate new token

Revoke all

Tokens you have generated that can be used to access the Git

Generate new token Beta

Fine-grained, repo-scoped

Generate new token (classic)

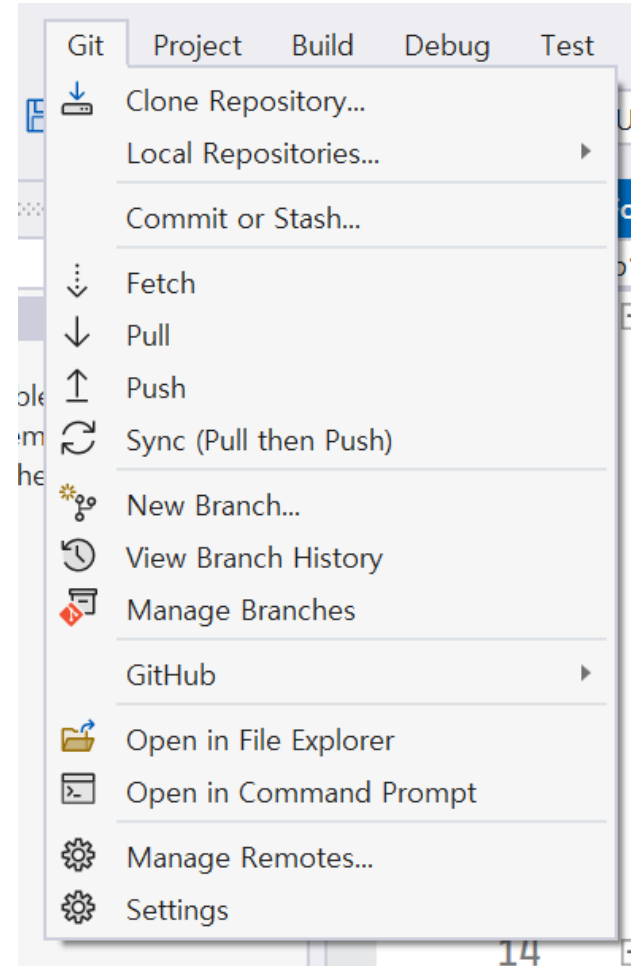
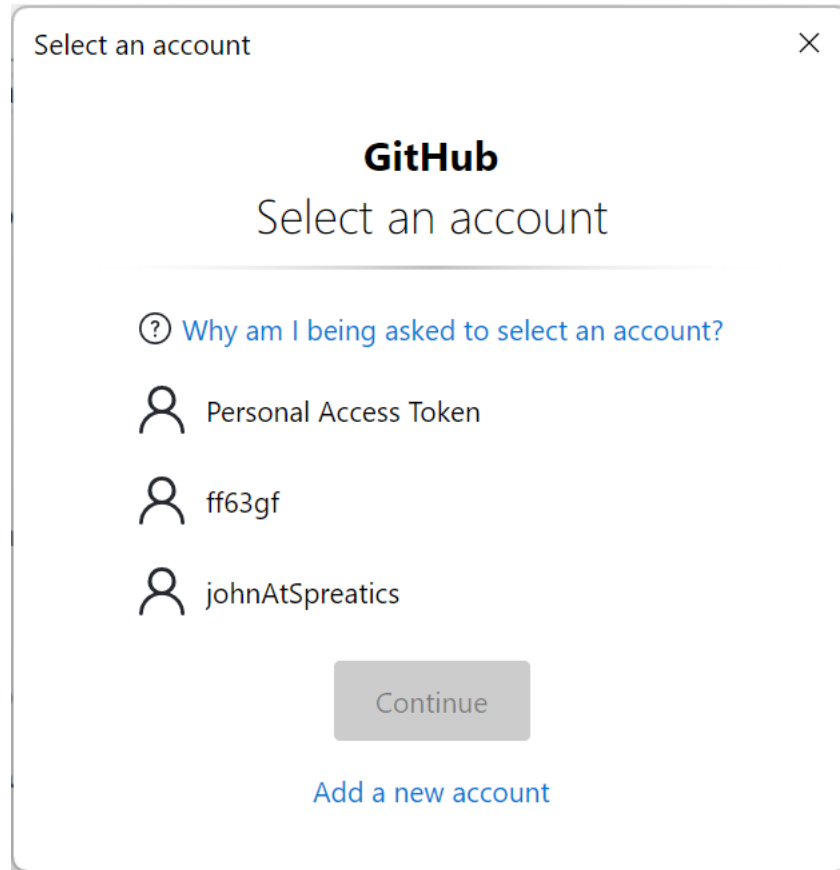
For general use

Delete

juneseok — `admin:enterprise, admin:gpg_key, admin:org, admin:org_hooks, admin:repo_hook, admin:ssh_signing_key, audit_log, codespace, delete_packages, delete_repo, gist, notifications, project, repo, user, workflow, write:discussion, write:packages`
Expires on **Sun, Dec 31 2023**.

Personal access tokens (classic) function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to [authenticate to the API over Basic Authentication](#).

VS - GitHub 연동



계정 연동 성공 시
모든 기능이 활성화됨

VS - Git Add

```
--
14  namespace WindowsFormsApp1
15  {
16      3 references
17      public partial class Form1 : Form
18      {
19          1 reference
20          public Form1()
21          {
22              InitializeComponent();
23          }
24          int a = 0;
```

코드에 변동 사항이 생기면

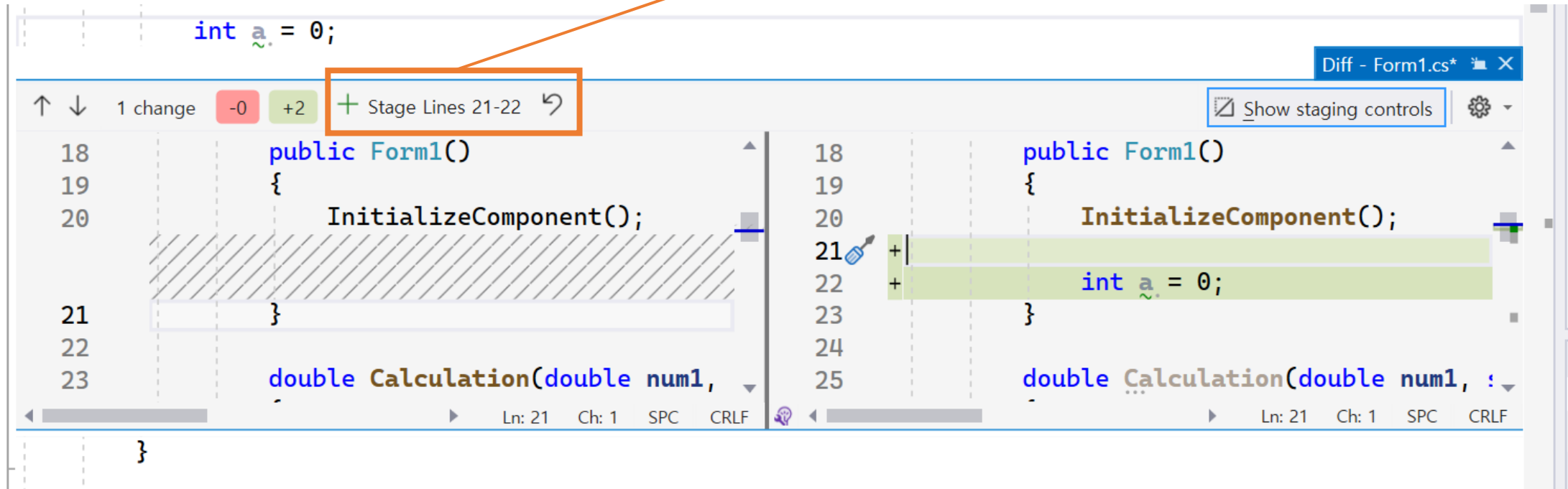
```
20
21
22  InitializeCom
23  0;
24
25  0 references
```

Added - Not Saved (Alt+F8)

Add 할 요소가 표시됨

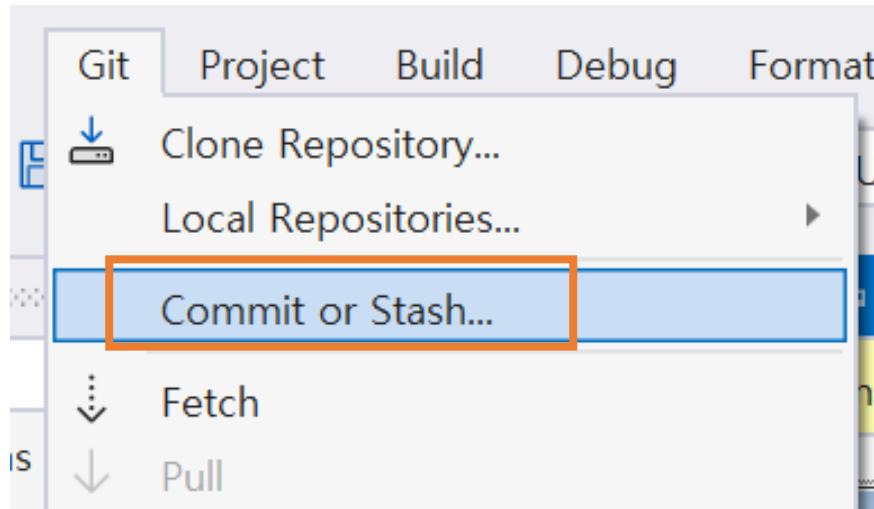
VS - Git Add

변경 사항에 대해 Add 실행

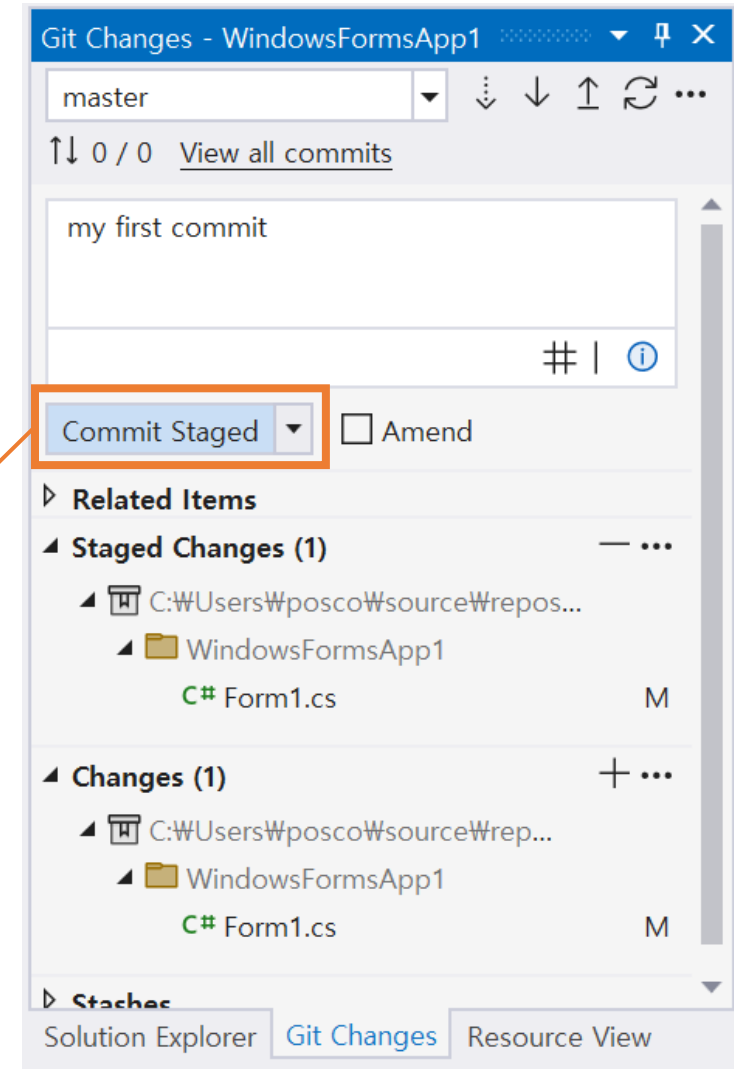


클릭하여 자세한 변동 사항을 체크 할 수 있음

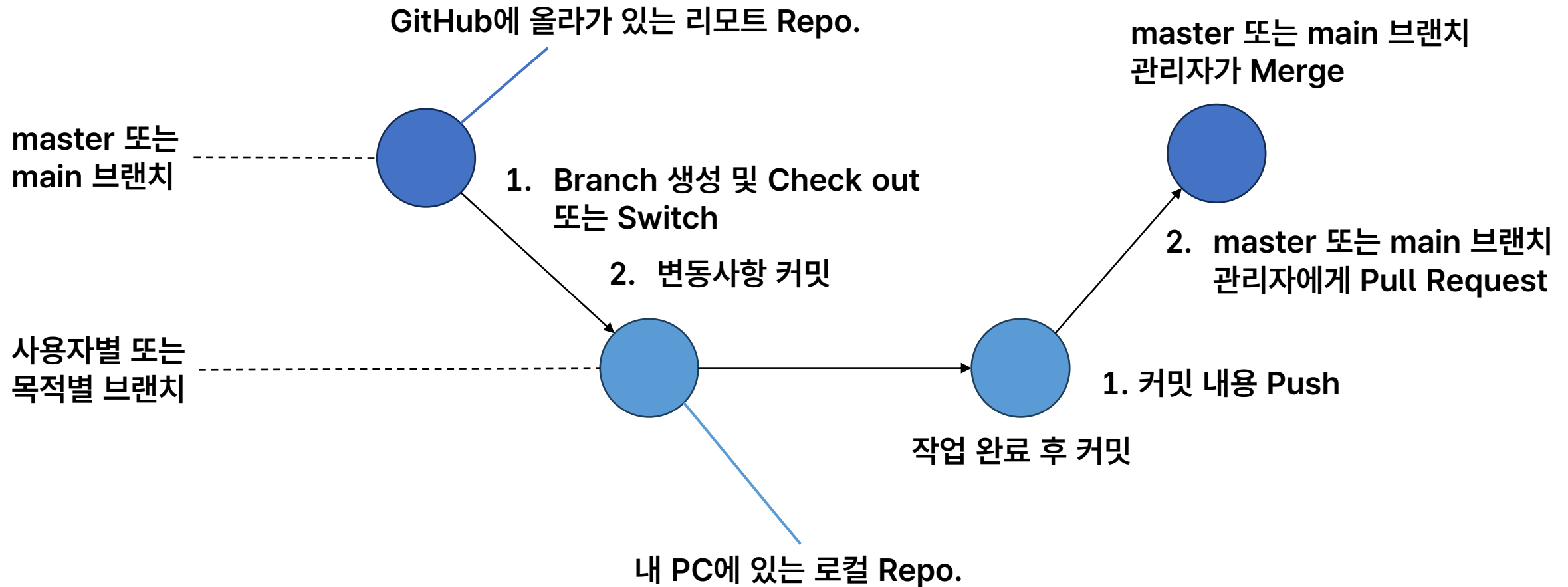
VS - Git Commit



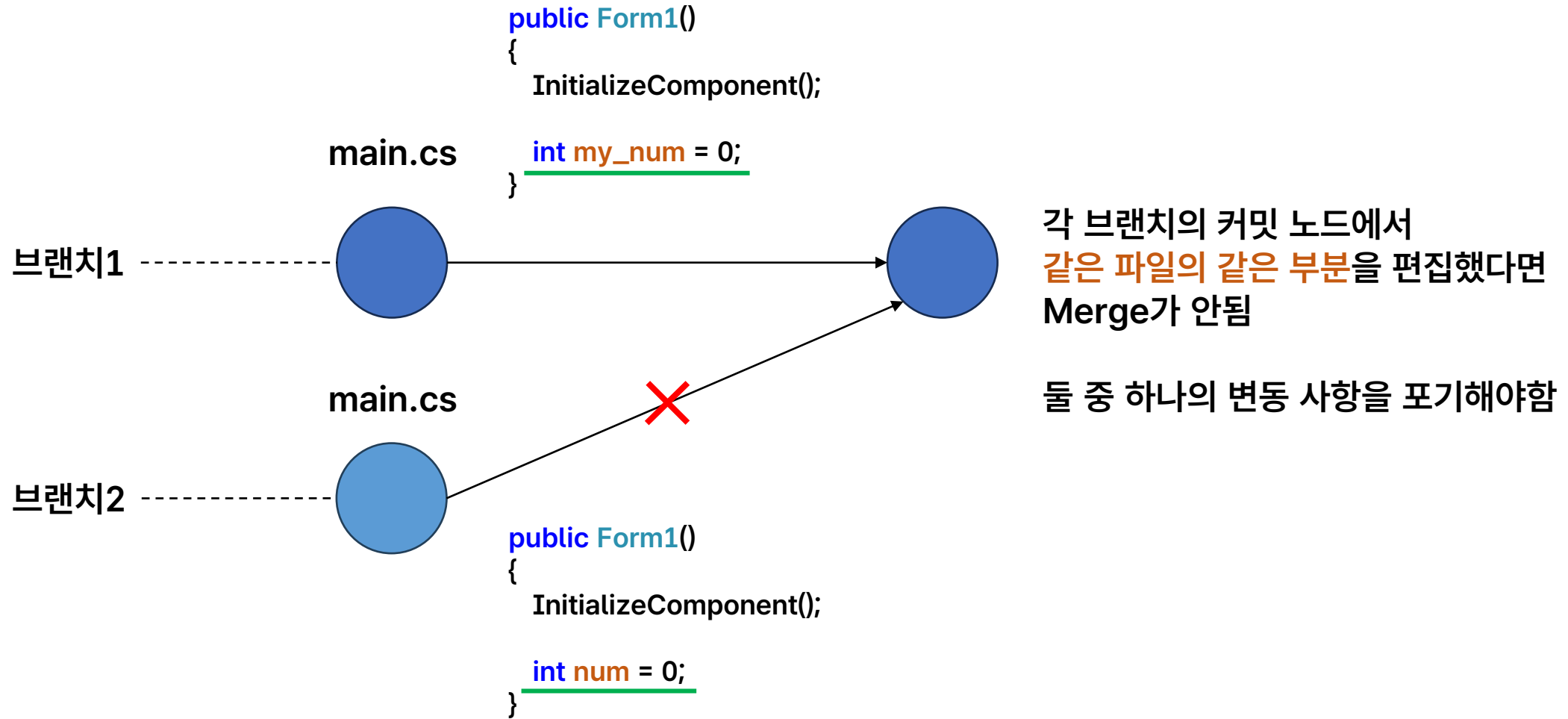
메모 작성 및 Commit 실행



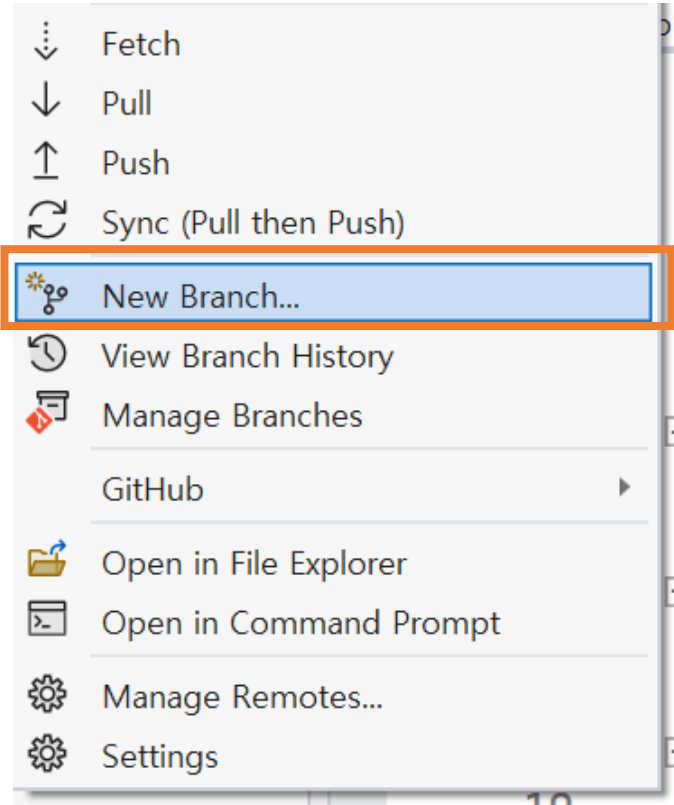
VS - Git Branch 사용 예시



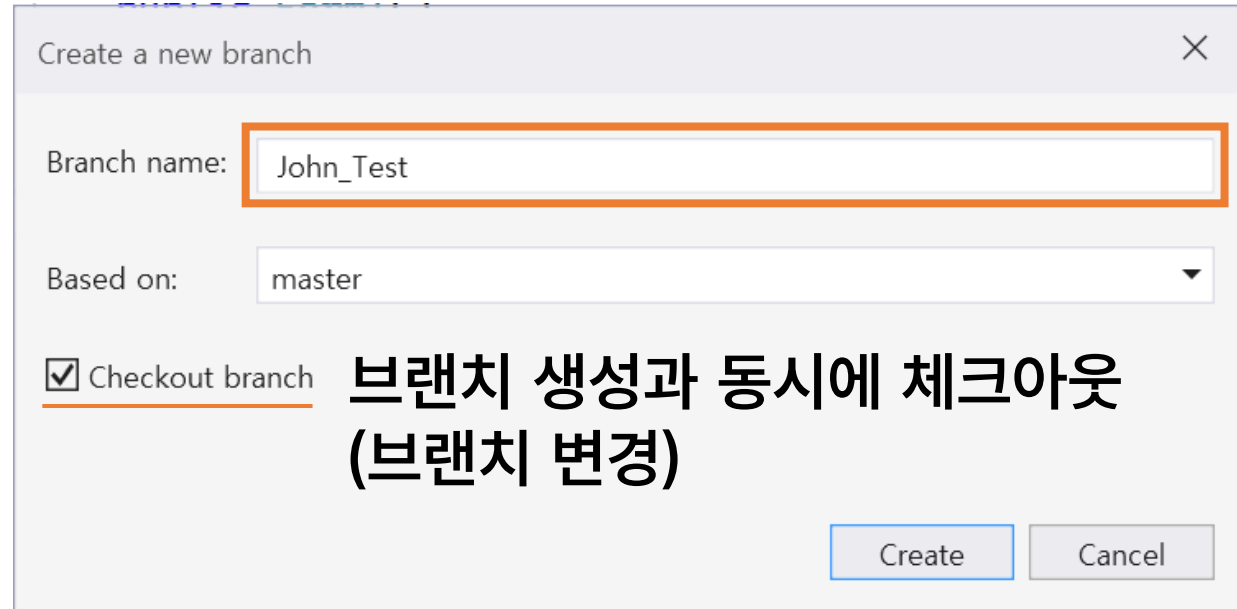
VS - Git Branch 사용 예시



VS - Git Branch

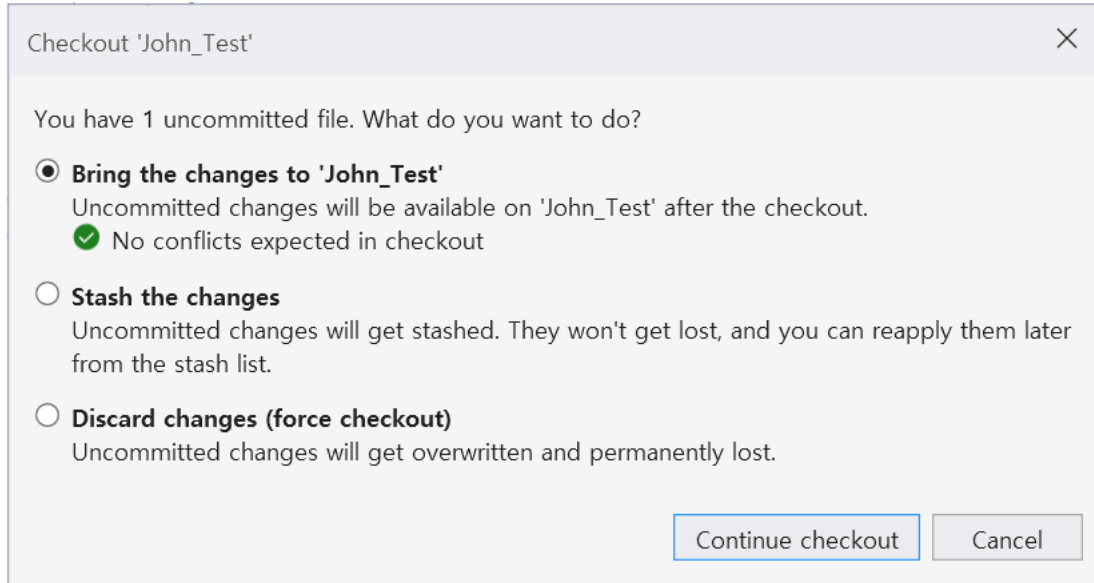


개발에 사용할 브랜치 생성

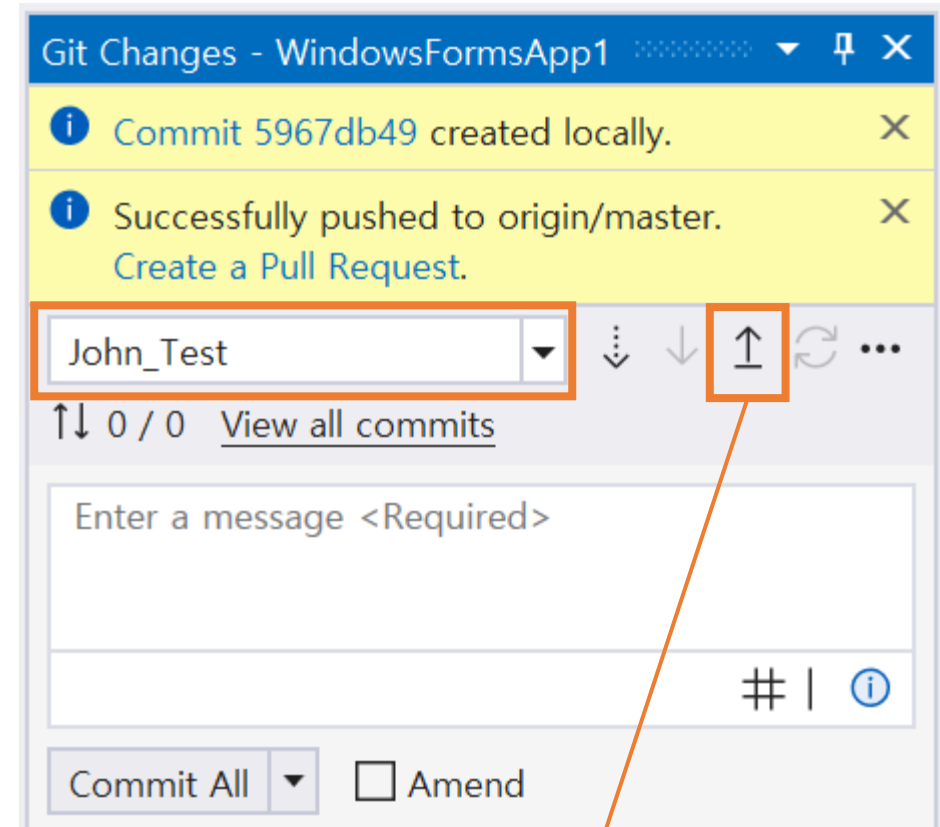


브랜치 이름과 뺀어 나올 원래 브랜치 선택

VS - Git Branch

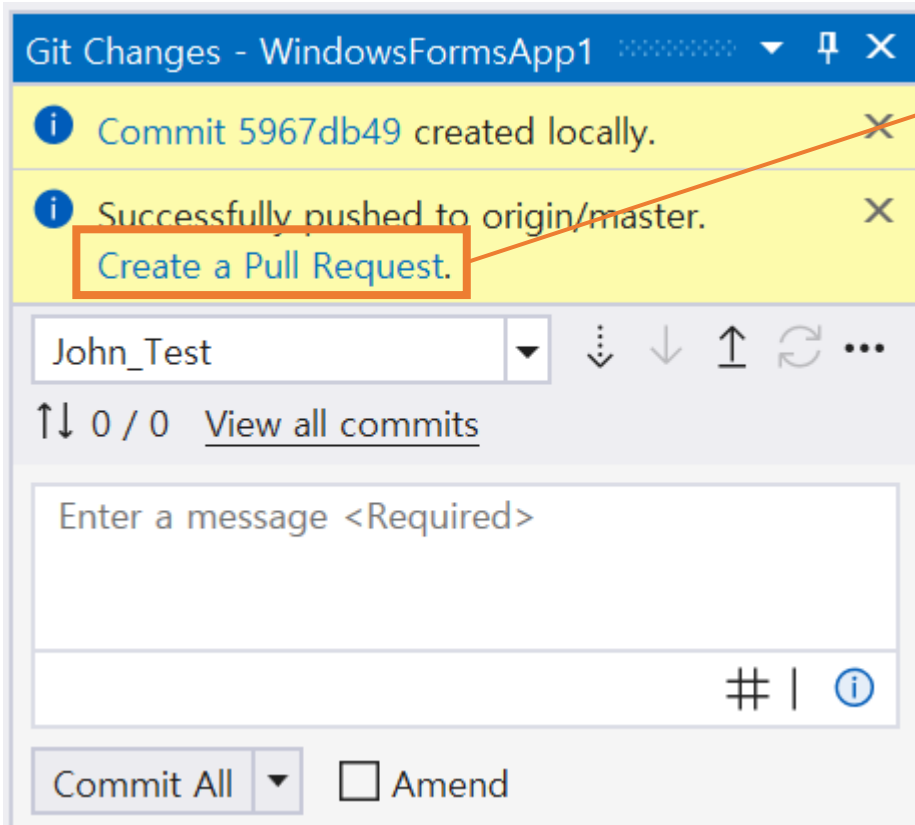


Commit 할 내용이 없어야 체크아웃 가능



개인 브랜치로 Push

VS - Git Pull Request



Pull Request 만들기

* Pull Request 란?

master 또는 main 브랜치 관리자에게

개인 브랜치에서 Push 한 내용을

master 또는 main 브랜치와 Merge 해달라는 요청

VS - Git Pull Request

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#). [Learn more about diff comparisons here](#).

base: master

compare: John_Test

✓ Able to merge. These branches can be automatically merged.

Add a title

my second commit

Add a description

WritePreviewHBBI≡<>🔗⋮⋮🔊📎@🔗↩️🔑

master 브랜치와 합쳐주세요~!

Create pull request

Reviewers

No reviews

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Use [Closing keywords](#) in the description to automatically close issues


Helpful resources


Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).


GitHub Pull Request 페이지가 자동으로 열림


VS - Git Pull Request

Add more commits by pushing to the John_Test branch on ff63gf/WindowsFormsApp1.



 **Require approval from specific reviewers before merging**
[Branch protection rules](#) ensure specific people approve pull requests before they're merged. Add rule ×

 **Continuous integration has not been set up**
[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.

 **This branch has no conflicts with the base branch**
Merging can be performed automatically.

Merge pull request ▼ You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

GitHub Repo. 관리자에게 이렇게 요청이 옴

VS - Git Pull Request

Add more commits by pushing to the John_Test branch on ff63gf/WindowsFormsApp1.



Merge pull request #1 from ff63gf/John_Test

my second commit

This commit will be authored by 56570841+ff63gf@users.noreply.github.com

Confirm merge

Cancel

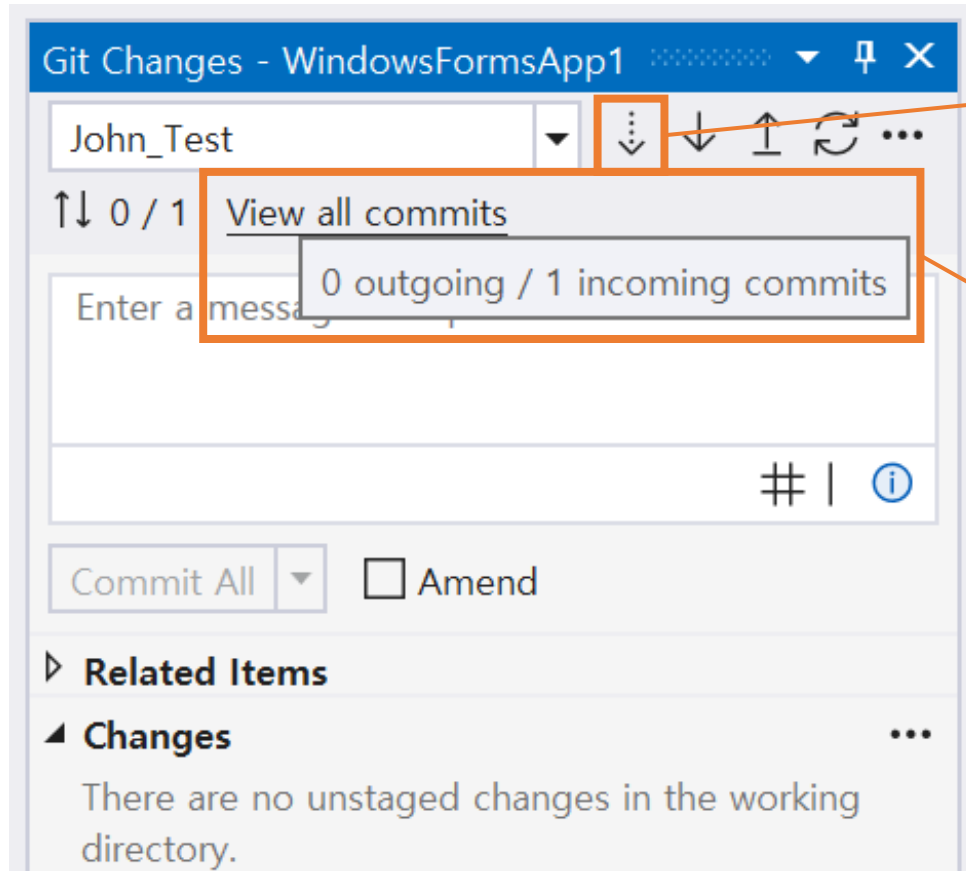


Pull request successfully merged and closed

You're all set—the `John_Test` branch can be safely deleted.

Delete branch

VS - Git Fetch & Pull



Fetch 버튼

전체 커밋 목록에서 Fetch 내용 확인

VS - Git Fetch & Pull

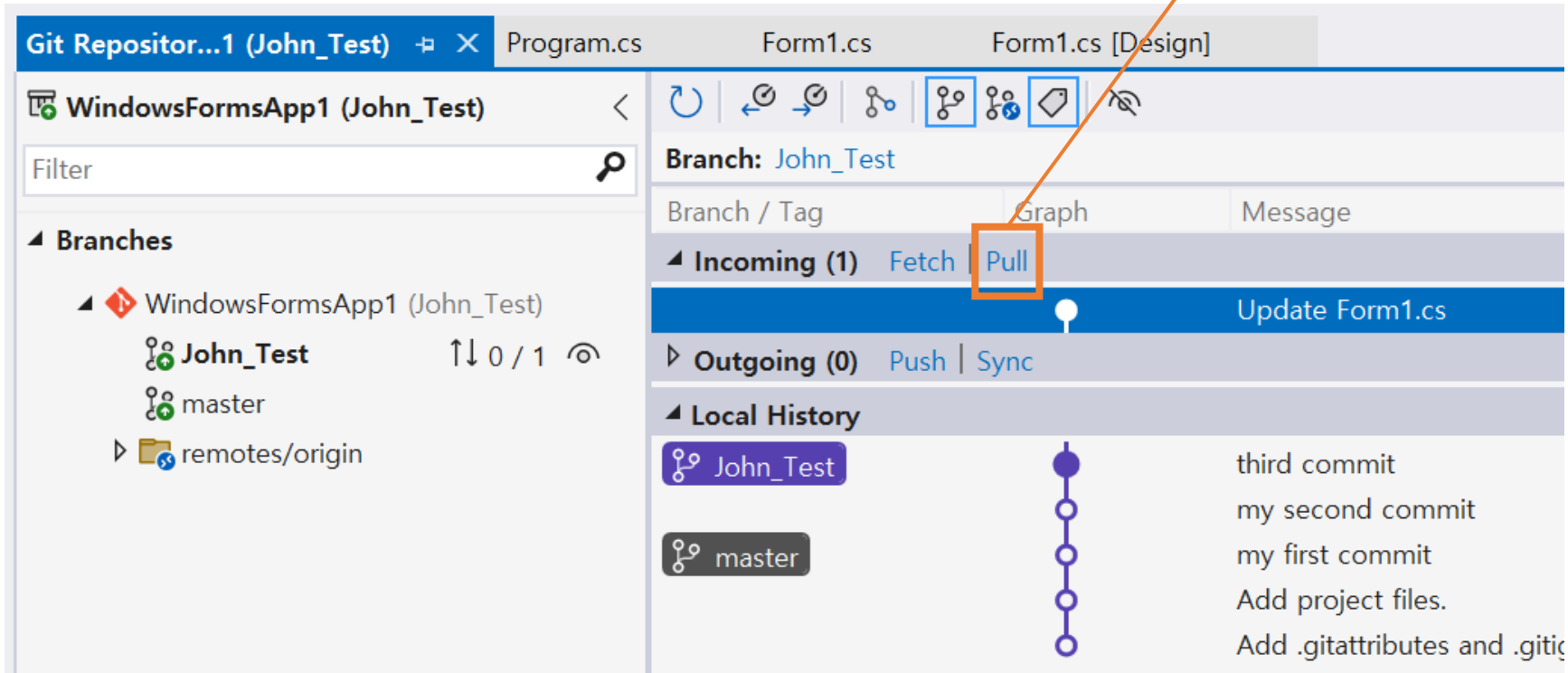
다른 사람이 같은 브랜치에 커밋한 내용

The screenshot shows the Visual Studio Git interface for a repository named 'WindowsFormsApp1 (John_Test)'. The 'Branch: John_Test' is selected. The 'Incoming (1)' section is highlighted with an orange box, showing a commit titled 'Update Form1.cs' by user 'ff63gf' on 2023-11-... with commit ID '79fbd2f5'. The 'Local History' section shows the current branch 'John_Test' and the 'master' branch, with a vertical timeline of commits. The commit history includes 'third commit', 'my second commit', 'my first commit', 'Add project files.', and 'Add .gitattributes and .gitignore.'.

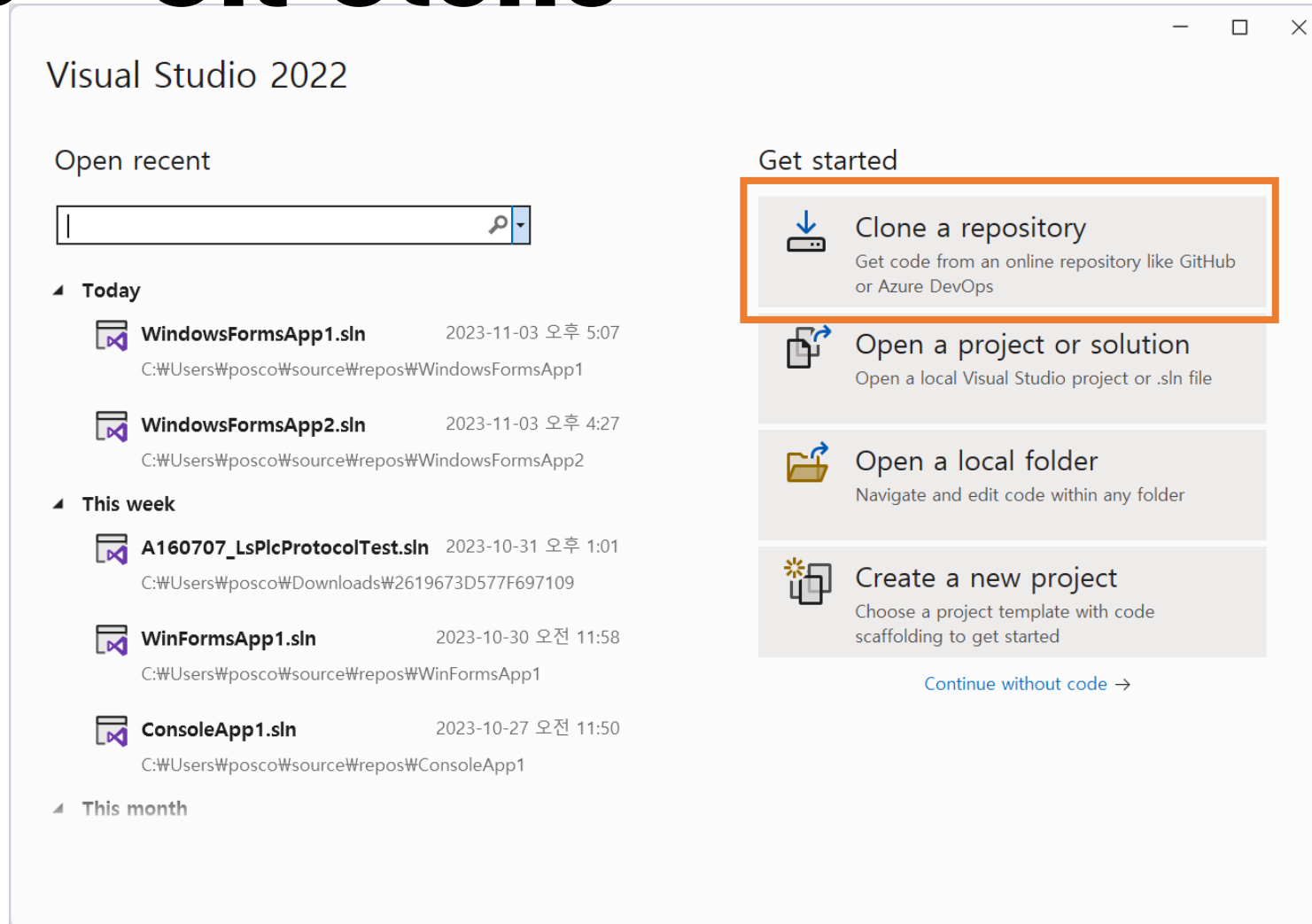
Branch / Tag	Graph	Message	Author	Date	ID
Incoming (1) Fetch Pull					
		Update Form1.cs	ff63gf	2023-11-...	79fbd2f5
Outgoing (0) Push Sync					
Local History					
John_Test		third commit	Hungryf	2023-11-...	094bbccd
		my second commit	Hungryf	2023-11-...	c6281556
		my first commit	Hungryf	2023-11-...	5967db49
		Add project files.	Hungryf	2023-11-...	97274a5b
		Add .gitattributes and .gitignore.	Hungryf	2023-11-...	92257042

VS - Git Fetch & Pull

Pull 하여 변동 사항 적용



VS - Git Clone



VS - Git Clone

Clone a repository


Enter a Git repository URL


Repository location

Path

...

Browse a repository

 Azure DevOps

 GitHub

Back

Clone