

# Git

## Source Code Management System

Microsoft Student Partner

고희원

## Contents

### Intro

**Version Control System, Git, GitHub**

### Practice Setting

### Git Workflow

**Git Workflow Practice (1)**

**Git Workflow Practice (2)**

### Collaborate with Git Practice – Pull Request

# 시작하기 전에!

- 1) Linux 기본 Command 알고가기
- 2) 코드 편집기 설치 (Visual Studio Code, Sublime Text, Atom ..)  
<https://code.visualstudio.com/download>
- 3) 능동적으로! 개념보다 하나라도 더 따라해보는 게 중요해요!
- 4) 모르는 부분, 막히는 부분이 있으면 조교에게 질문하기!
- 5) [https://github.com/HuiwonKo/MSP\\_Seminar\\_20180727](https://github.com/HuiwonKo/MSP_Seminar_20180727)

 Search or jump to... / Pull requests Issues Marketplace Explore + ⚙️

HuiwonKo / MSP\_Seminar\_20180727

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

No description, website, or topics provided. Edit

Add topics

1 commit 1 branch 0 releases 0 contributors

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

 Heewon Ko Add git practice source code Latest commit c803683 11 hours ago

 faceapi Add git practice source code 11 hours ago

Help people interested in this repository understand your project by adding a README. Add a README

 Search or jump to... / Pull requests Issues Marketplace Explore + ⌂ ⌂

HuiwonKo / MSP\_Seminar\_20180727 Unwatch ▾ 1 Star 1 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

No description, website, or topics provided. Edit

Add topics

1 commit 1 branch 0 releases 0 contributors

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

Heewon Ko Add git practice source code

faceapi Add git practice source code

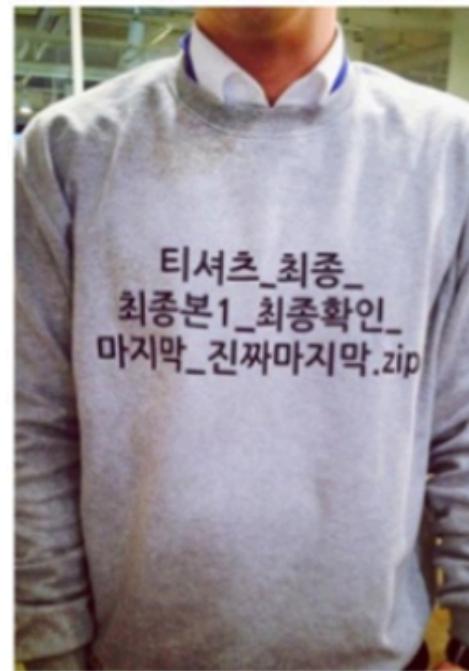
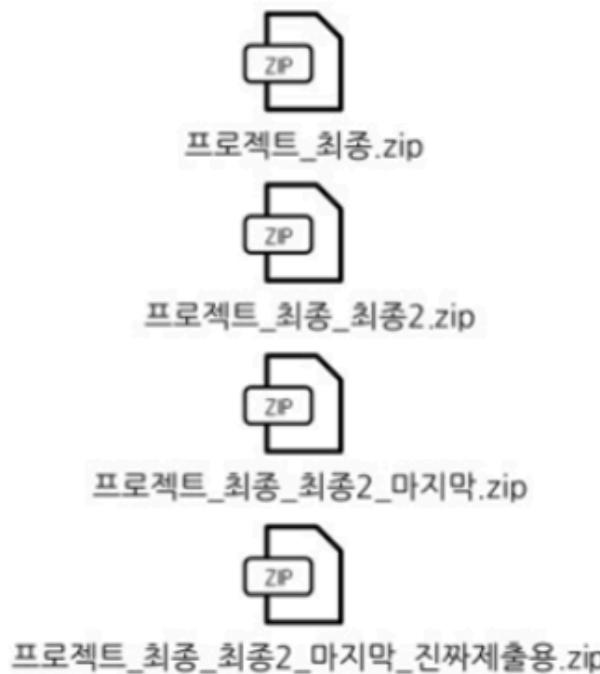
Help people interested in this repository understand your project by adding a README.

Clone with HTTPS ⓘ Use SSH  
Use Git or checkout with SVN using the web URL.  
[https://github.com/HuiwonKo/MSP\\_Semir](https://github.com/HuiwonKo/MSP_Semir) Copy

Open in Desktop Download ZIP

# Version Control (VCS)

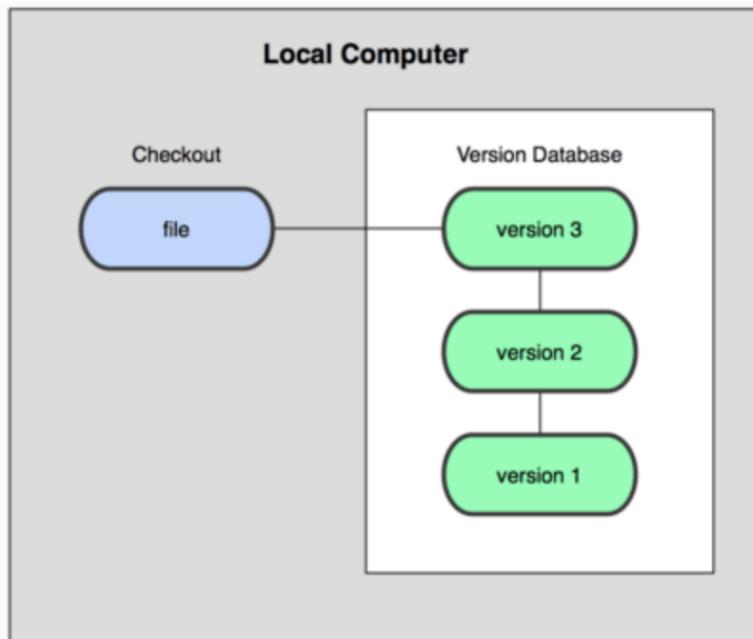
파일의 변화를 시간에 따라 기록하여 과거 특정 시점의 버전을 다시 불러올 수 있는 시스템



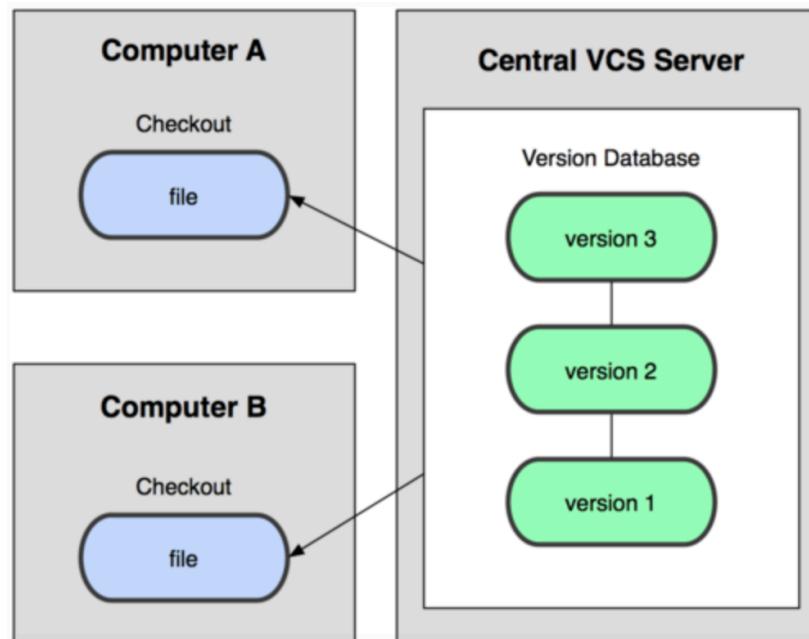
EVERY DESIGNER IN THIS WORLD



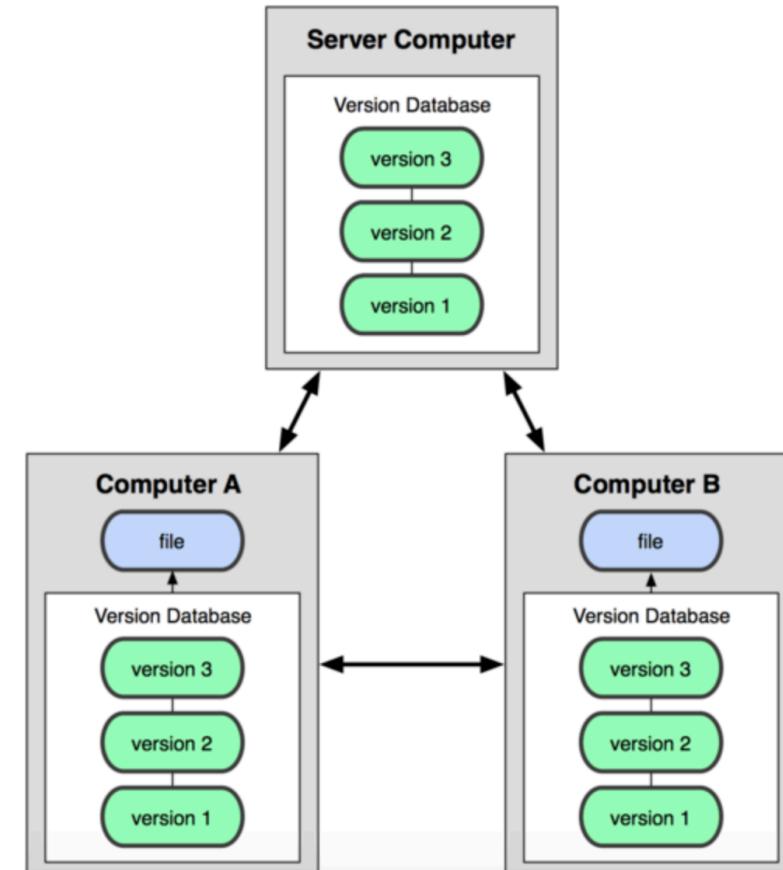
## Version Control System(VCS) 의 종류



<local VCS>  
ex) Mac OSX 의 RCS



<central VCS>  
ex) CVCS, Subversion,  
Perforce



<distributed VCS>  
ex) Git, Mercurial,  
Bazaar



## Git 의 정의

- 개발과정, 소스파일 등을 버전별로 관리할 수 있는 도구
- History 관리를 통해 개발 과정, 역사를 시간의 흐름(timeline)을 기준으로 볼 수 있으며 특정 시점으로 복구가 가능
- 분산 버전 관리 시스템



## Git 의 장점

- 개별 파일 혹은 프로젝트 전체를 이전 상태로 되돌리거나 시간에 따른 변경 사항 검토 가능
- 문제가 되는 부분을 누가 마지막으로 수정했는지, 누가 언제 이슈를 만들었는지 파악 가능
- 파일을 잃어버리거나 무언가 잘못되어도 쉽게 복구 가능

## GitHub



- Git이라는 도구를 응용할 때 필요한 원격 저장소 사이트
- 각종 Remote Repository (원격 저장소)들의 집합

# Practice

# 1. Git 설치

<https://git-scm.com/downloads/>



git --local-branching-on-the-cheap

About

Documentation

Downloads

GUI Clients

Logos

Community

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

## Downloads



Mac OS X



Windows



Linux/Unix

Older releases [linux : 리눅스](#) are available and the [Git source repository](#) is on GitHub.

### GUI Clients

Git comes with built-in GUI tools ([git-gui](#), [gitk](#)), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)



Search entire site...



Latest source Release  
**2.18.0**

[Release Notes \(2018-06-21\)](#)

[Download 2.18.0 for Mac](#)

### Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)



Microsoft

## 2-1. GitHub 회원가입

<https://github.com/join/>

The screenshot shows the GitHub 'Join GitHub' page. At the top, there's a navigation bar with links for Features, Platform, Business, Explore, Pricing, Sign in, and Sign up. Below the navigation is the title 'Join GitHub' and the subtitle 'The best way to design, build, and ship software.' There are three steps outlined: Step 1: Create personal account, Step 2: Choose your plan, and Step 3: Tailor your experience.

**Create your personal account**

**Username**  
This will be your username. You can add the name of your organization later.

**Email address**  
We'll occasionally send updates about your account to this inbox. We'll never share your email address with anyone.

**Password**  
Use at least one lowercase letter, one numeral, and seven characters.

By clicking "Create an account" below, you agree to our [terms of service](#) and [privacy statement](#). We'll occasionally send you account related emails.

**Create an account**

After creating the account, a message 'Your email was verified.' appears in a red box at the bottom of the page, with a red arrow pointing to it from the bottom of the 'Create an account' button.

## 2-2. 이메일 인증하기

The screenshot shows the GitHub 'Personal settings' page under the 'Account' section, specifically the 'Emails' tab. A red box highlights the 'Emails' tab in the sidebar. On the right, the 'Emails' section displays the primary email address 'dreams96@naver.com' which is marked as 'Primary', 'Visible in emails', and 'Receives notifications'. Below this, there's a form to 'Add email address' with an 'Add' button. A note about the primary email states it will be used for account-related notifications and web-based GitHub operations. There's also a section for a 'Backup email address' with a note that it can be used to reset the password if the primary email is unavailable, and a 'Save' button. At the bottom, there's a note about keeping the email private and a link to set the email in Git.

Personal settings

Profile

Account

Emails

Notifications

Billing

SSH and GPG keys

Security

Blocked users

Repositories

Organizations

Saved replies

Applications

Developer settings

### Emails

dreams96@naver.com Primary Visible in emails Receives notifications

Add email address

Primary email address

dreams96@naver.com will be used for account-related notifications and for web-based GitHub operations (e.g. edits and merges).

dreams96@naver.com Save

Backup email address

Your backup GitHub email address can be used to reset your password if you no longer have access to your primary email address.

Only allow primary email Save

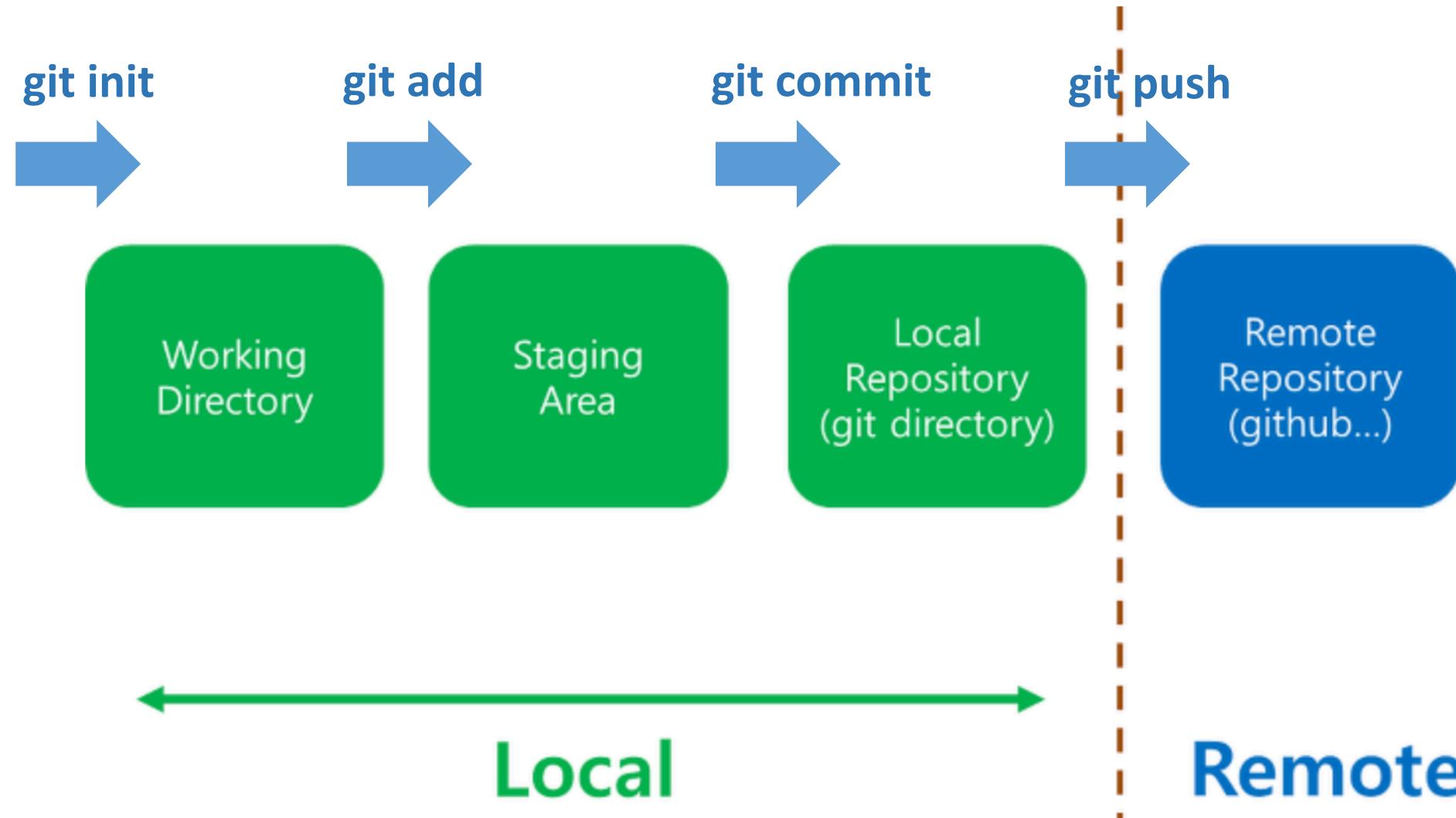
Please add a verified email, in addition to your primary email, in order to choose a backup email address.

Keep my email address private

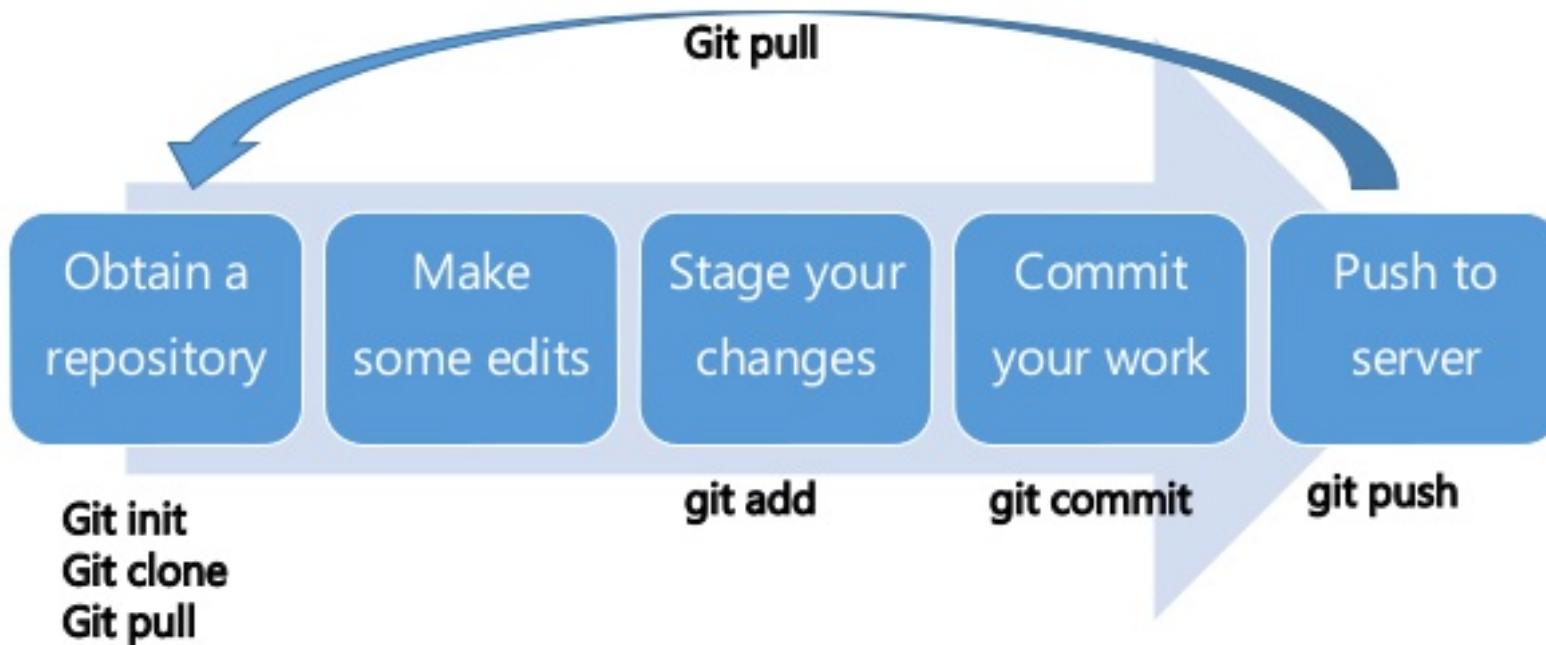
We'll remove your public profile email and use 20138033+HuiwonKo@users.noreply.github.com when performing web-based Git operations and sending email on your behalf. If you want command line Git operations to use your private email you must [set your email in Git](#).

# Git

## Git Workflow



# Git usages : Understanding Git Workflow



# Git

## Git Workflow





1. **git init**

2. **git add <file name / directory name>**

3. **git commit -m “<commit message>”**

4. **git remote add origin <remote repository URL>**

5. **git push -u origin master**

# git clone

- remote repository 를 사용자의 컴퓨터(local)로 복사하는 과정

The screenshot shows a GitHub repository page for 'HuiwonKo / MSP\_Seminar\_20180727'. The page includes a navigation bar with links for Pull requests, Issues, Marketplace, and Explore. Below the navigation bar, the repository name is displayed along with Unwatch (1), Star (1), and Fork (0) buttons. A tab bar at the top of the repository page shows 'Code' (selected), Issues (0), Pull requests (0), Projects (0), Wiki, Insights, and Settings. The main content area displays a message 'No description, website, or topics provided.' with an 'Edit' button. Below this, there are summary statistics: 1 commit, 1 branch, 0 releases, and 0 contributors. At the bottom of the page, there are buttons for Branch: master, New pull request, Create new file, Upload files, Find file, and Clone or download. The 'Clone or download' button is highlighted with a red box. The repository history shows a single commit by 'Heewon Ko' adding git practice source code, with the latest commit being 'c803683' 11 hours ago. A note at the bottom encourages adding a README, with a 'Add a README' button.

# git clone <remote repository URL>

The screenshot shows a GitHub repository page for 'HuiwonKo / MSP\_Seminar\_20180727'. The repository has 1 commit, 1 branch, 0 releases, and 0 contributors. A tooltip for the 'Clone or download' button displays the HTTPS URL: [https://github.com/HuiwonKo/MSP\\_Semir](https://github.com/HuiwonKo/MSP_Semir). This URL is highlighted with a red box.

Search or jump to...  Pull requests Issues Marketplace Explore + ⌂ ⌂

HuiwonKo / [MSP\\_Seminar\\_20180727](#) [Unwatch](#) 1 [Star](#) 1 [Fork](#) 0

[Code](#) Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

No description, website, or topics provided. [Edit](#)

Add topics

1 commit 1 branch 0 releases 0 contributors

Branch: master ▾ New pull request Create new file Upload files Find file [Clone or download](#) ▾

Heewon Ko Add git practice source code  
faceapi Add git practice source code

Help people interested in this repository understand your project by adding a README.

Clone with HTTPS ⓘ Use SSH  
Use Git or checkout with SVN using the web URL.  
[https://github.com/HuiwonKo/MSP\\_Semir](https://github.com/HuiwonKo/MSP_Semir) [Copy](#)

[Open in Desktop](#) [Download ZIP](#)



1. **git init**

2. **git add <file name / directory name>**

3. **git commit -m “<commit message>”**

4. **git remote add origin <remote repository URL>**

5. **git push -u origin master**



1. `git init`

2. `git add <file name / directory name>`

3. `git commit -m "<commit message>"`

4. `git remote add origin <remote repository URL>`

5. `git push -u origin master`



1. `git init`

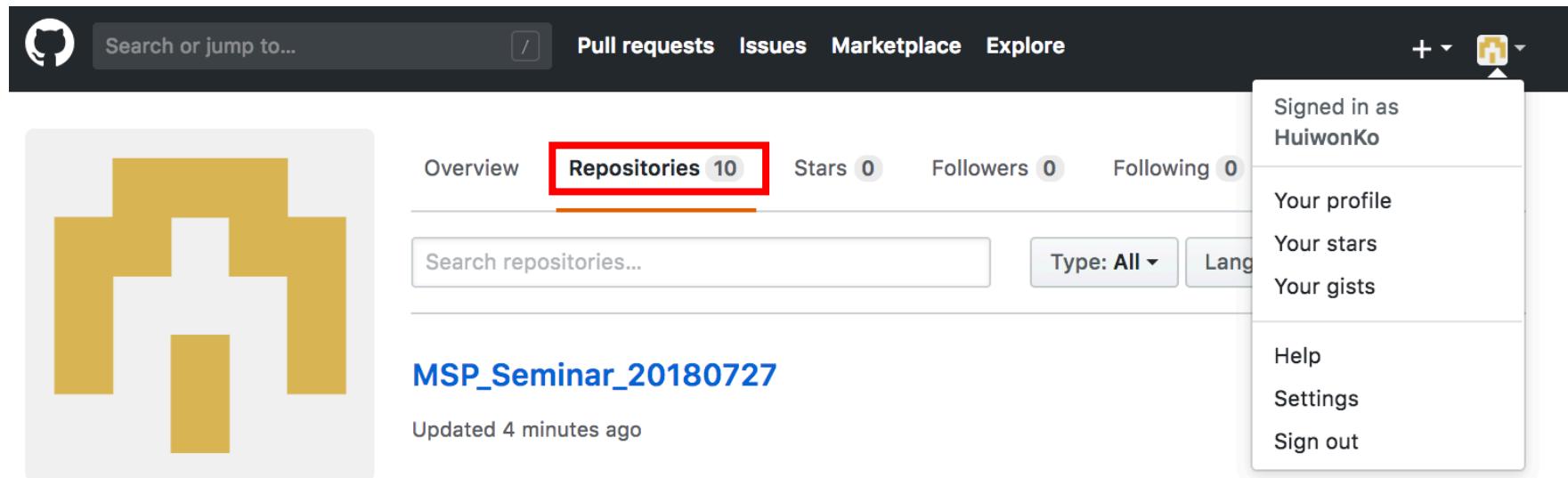
2. `git add <file name / directory name>`

3. `git commit -m "<commit message>"`

4. `git remote add origin <remote repository URL>`

5. `git push -u origin master`

# 새로운 Remote Repository 만들기



A screenshot of a GitHub user profile page for 'HuiwonKo'. The top navigation bar includes links for Pull requests, Issues, Marketplace, and Explore. A dropdown menu is open from the top right, showing options like Signed in as HuiwonKo, Your profile, Your stars, Your gists, Help, Settings, and Sign out. The main profile area shows a large yellow 'HK' logo icon, the name 'Heewon Ko' (with the handle 'HuiwonKo'), and a button to 'Add a bio'. Below this, the 'Repositories' tab is selected, showing 10 repositories. One repository, 'MSP\_Seminar\_20180727', is listed with a blue link, updated 4 minutes ago. Another repository, 'computerscience', is shown with a green activity graph.

Heewon Ko

HuiwonKo

Add a bio

Organizations



[computerscience](#)

Forked from Microsoft/computerscience

Free technical resources for faculty, students, and Microsoft developer advocates for use in computer science learning forums.

JavaScript 361 Updated on 15 May



[Classrates](#)

Forked from Wintellect/Classrates

Repository for Classrates Web site

JavaScript 74 Updated on 7 Mar





Search or jump to...



Pull requests Issues Marketplace Explore



Overview

Repositories 10

Stars 0

Followers 0

Following 0

Search repositories...

Type: All ▾

Language: All ▾

New

## MSP\_Seminar\_20180727

Updated a minute ago

### computerscience

Forked from Microsoft/computerscience

Free technical resources for faculty, students, and Microsoft developer advocates for use in computer science learning forums.



JavaScript 361 Updated on 15 May

## Heewon Ko

HuiwonKo

[Add a bio](#)

## Organizations



## Classrates

Forked from Wintellect/Classrates

Repository for Classrates Web site



JavaScript 74 Updated on 7 Mar

## MTM

CSS Updated on 6 Nov 2017



Search or jump to...

Pull requests Issues Marketplace Explore

+

## Create a new repository

A repository contains all the files for your project, including the revision history.

Owner



/ Repository name

gitpractice



Great repository names are short and memorable. Need inspiration? How about [urban-octo-sniffle](#).

Description (optional)



Public

Anyone can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.



Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: None

Add a license: None

**Create repository**

# Remote Repository URL

The screenshot shows a GitHub repository page for 'HuiwonKo / gitpractice'. The top navigation bar includes 'Pull requests', 'Issues', 'Marketplace', and 'Explore' links. Below the repository name, there are 'Unwatch', 'Star', and 'Fork' buttons. The main content area has tabs for 'Code', 'Issues 0', 'Pull requests 0', 'Projects 0', 'Wiki', 'Insights', and 'Settings'. A large red arrow points from the text 'Remote Repository URL' on the left to the 'HTTPS' URL field in the 'Quick setup' section.

**Quick setup — if you've done this kind of thing before**

[Set up in Desktop](#) or [HTTPS](#) [SSH](#) <https://github.com/HuiwonKo/gitpractice.git>

We recommend every repository include [README](#), [LICENSE](#), and [.gitignore](#).

**...or create a new repository on the command line**

```
echo "# gitpractice" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/HuiwonKo/gitpractice.git
git push -u origin master
```

**...or push an existing repository from the command line**

```
git remote add origin https://github.com/HuiwonKo/gitpractice.git
git push -u origin master
```

**...or import code from another repository**

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

[Import code](#)



1. `git init`

2. `git add <file name / directory name>`

3. `git commit -m "<commit message>"`

4. `git remote add origin <remote repository URL>`

>> `git remote`

5. `git push -u origin master`



1. **git init**

2. **git add <file name / directory name>**

>> git status

3. **git commit -m “<commit message>”**

>> git show  
>> git log  
>> git shortlog

4. **git remote add origin <remote repository URL>**

5. **git push -u origin master**



1. `git init`

2. `git add <file name / directory name>`

3. `git commit -m "<commit message>"`

4. `git remote add origin <remote repository URL>`

5. `git push -u origin master`



1. `git init`

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>> `git status`

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5. `git push -u origin master`



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>> `git show`  
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1. `git init`

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3. `git commit -m "<commit message>"`

>> `git show`  
>> `git log`  
>> `git shortlog`

4. `git remote add origin <remote repository URL>`

5. `git push -u origin master`



1. `git init`

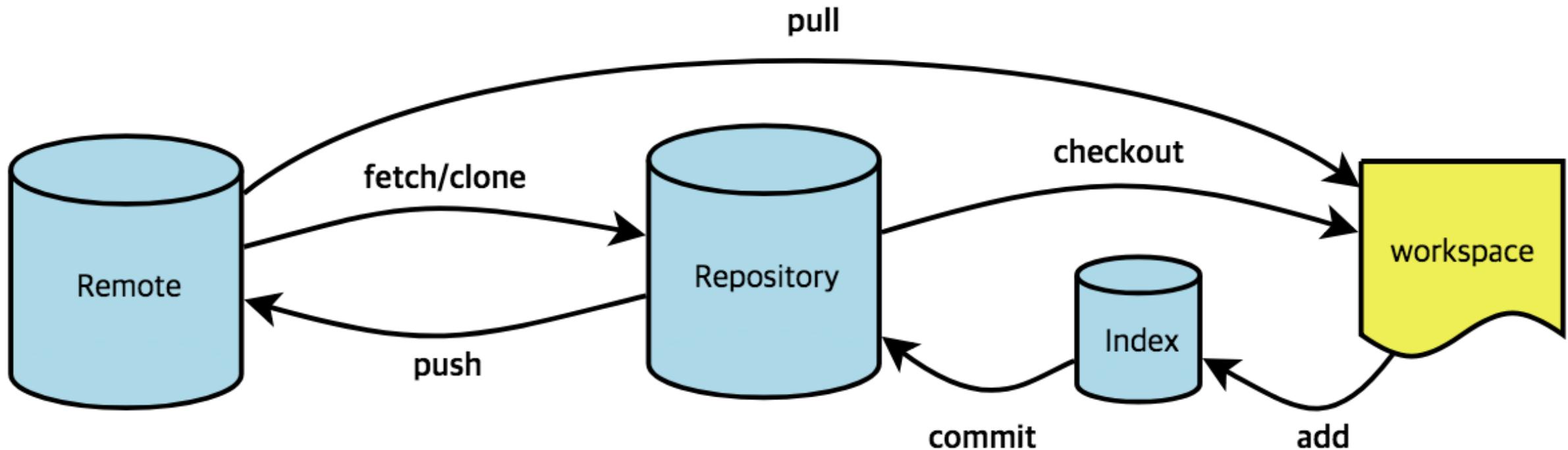
2. `git add <file name / directory name>`

3. `git commit -m "<commit message>"`

4. `git remote add origin <remote repository URL>`

5. `git push -u origin master`

# How to collaborate?



# Fork

- 외부 remote repository 를 사용자 GitHub 의 remote repository 로 복사하는 과정

The screenshot shows the GitHub interface for the repository `Azure / azure-quickstart-templates`. The top navigation bar includes the GitHub logo, a search bar, and links for Pull requests, Issues, Marketplace, and Explore. On the right side of the header, there are buttons for Watch (with 516 notifications), Star (with 3,900 stars), Fork (with 5,564 forks), and a user icon.

The main repository page displays the following information:

- Code** tab is selected.
- Issues**: 437
- Pull requests**: 42
- Projects**: 0
- Wiki**
- Insights**

Key statistics for the repository:

- 19,090 commits
- 3 branches
- 0 releases
- 668 contributors
- MIT license

Action buttons at the top of the code listing:

- Branch: master ▾
- New pull request
- Create new file
- Upload files
- Find file
- Clone or download ▾

The code listing shows the following recent commits:

Commit	Message	Date
<a href="#">.github</a>	Update stale.yml	2 months ago
<a href="#">1-CONTRIBUTION-GUIDE</a>	text tweak	27 days ago
<a href="#">100-blank-template</a>	added schema property to metadata.json	a month ago
<a href="#">100-marketplace-sample</a>	added schema property to metadata.json	a month ago
<a href="#">101-1vm-2nics-2subnets-1vnet</a>	added schema property to metadata.json	a month ago

Azure / azure-quickstart-temp

Code Issues Pull Requests

Azure Quickstart Templates https://

Branch: master New pull request

Create new file Upload files Find file Clone or download

Latest commit b16003a 6 days ago

.github Update stale.yml 2 months ago

1-CONTRIBUTION-GUIDE text tweak 27 days ago

100-blank-template added schema property to metadata.json a month ago

100-marketplace-sample added schema property to metadata.json a month ago

101-1vm-2nics-2subnets-1vnet added schema property to metadata.json a month ago

Where should we fork this repository? X

@HuiwonKo @unithonbechef

 Search or jump to...  Pull requests Issues Marketplace Explore + ⌂ ⌂

HuiwonKo / [azure-quickstart-templates](#)  Unwatch ▾ 1 Star 0 Fork 5,565

 Code  Pull requests 0  Projects 0  Wiki  Insights  Settings

Azure Quickstart Templates <https://azure.microsoft.com/en-us/doc...> 

Add topics

 19,090 commits  3 branches  0 releases  668 contributors  MIT

Branch: master ▾ New pull request Create new file Upload files Find file Clone or download ▾

This branch is even with Azure:master.  Pull request  Compare

 bmoore-msft Merge pull request #4921 from cloudmelon/patch-8 ... Latest commit b16003a 6 days ago

 .github	Update stale.yml	2 months ago
 1-CONTRIBUTION-GUIDE	text tweak	27 days ago
 100-blank-template	added schema propety to metadata.json	a month ago
 100-marketplace-sample	added schema propety to metadata.json	a month ago

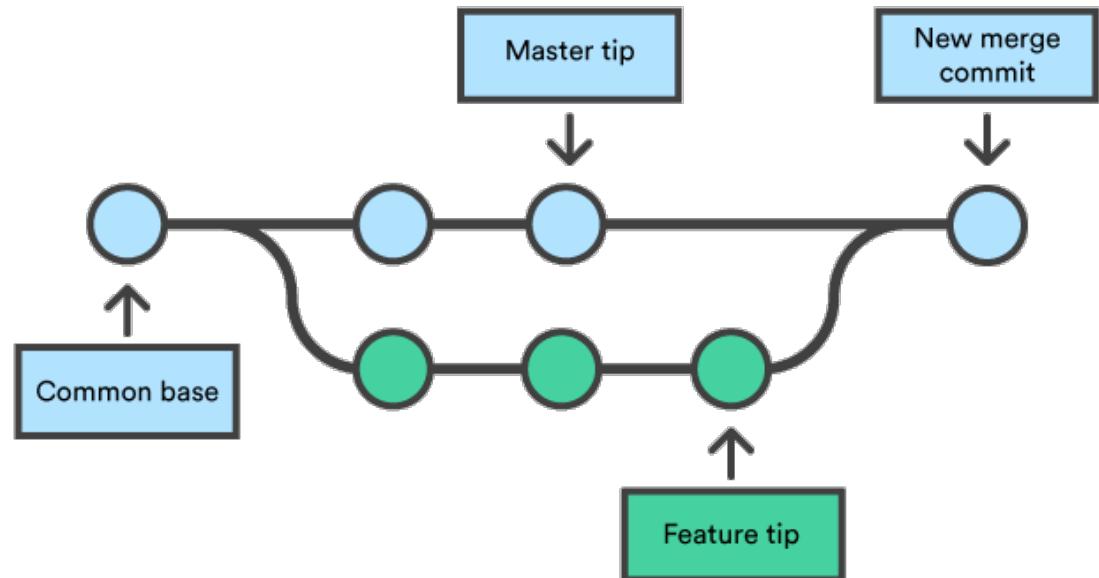
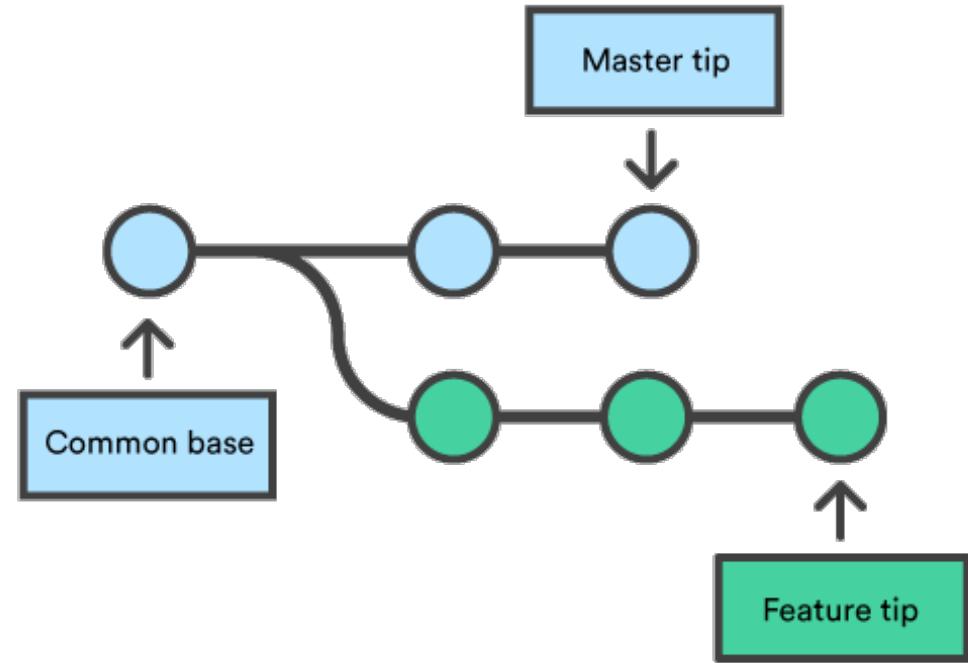
# Collaborator

- 다른 사용자에게 해당 repository에 대한 commit 권한 부여

The screenshot shows the GitHub repository settings page for the repository 'HuiwonKo / gitpractice'. The 'Settings' tab is selected. On the left, there is a sidebar with options: Options (selected), Collaborators (highlighted with a red box), Webhooks, Integrations & services, Deploy keys, Moderation, and Interaction limits. The main content area is titled 'Collaborators' and contains the message: 'This repository doesn't have any collaborators yet. Use the form below to add a collaborator.' Below this is a search bar labeled 'Search by username, full name or email address' and a note: 'You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.' At the bottom right of the form is a button labeled 'Add collaborator' (highlighted with a red box).

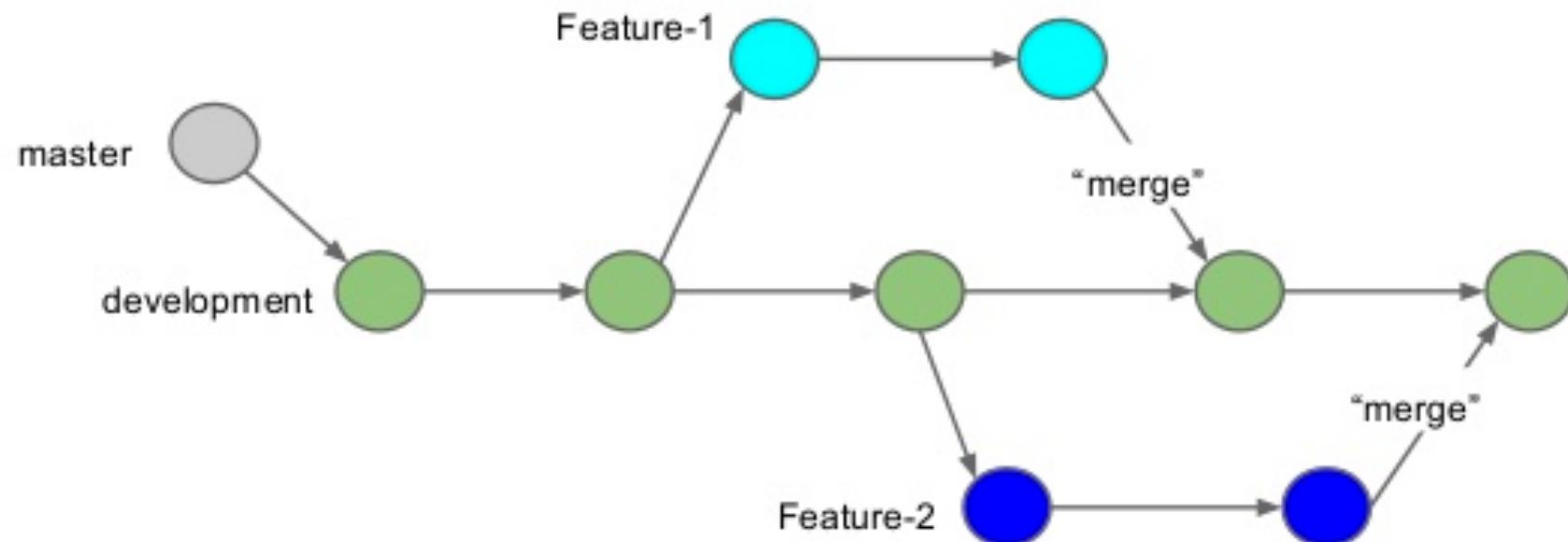
## Branch

- 새로운 기능 개발이나 테스트를 위해 사용하는 따로 떨어진 독립적인 commit 모음
- master branch
- feature/topic branch



## Feature Branch (2/2)

- Feature -*merge back->* Development



Master Branch

Dev. Branch

**Feature Branch**

Release Branch

Hotfix Branch

# Branch 만들기

- 1) git branch <branch name> -> git checkout <branch name>
- 2) git checkout -b <branch name>

The screenshot shows a GitHub repository page for 'HuiwonKo / computerscience'. The top navigation bar includes links for Pull requests, Issues, Marketplace, and Explore. Below the header, it shows the repository was forked from Microsoft/computerscience. The main content area has tabs for Code, Pull requests (0), Projects (0), Wiki, Insights, and Settings. The 'Overview' tab is selected. A search bar at the top right allows searching for branches. The 'Default branch' section shows the 'master' branch, which is marked as 'Default'. The 'Stale branches' section lists several branches: 'PoliChecks', 'Updates', 'LabTesting', 'OttawaUpdates', and 'Ottawa'. Each branch entry includes the last update time, a 'New pull request' button, and a delete icon.

Branch	Last Updated	Action
master	Updated 3 months ago by jeffprosise	Default
PoliChecks	Updated 2 years ago by hockeygee...	New pull request
Updates	Updated 2 years ago by hockeygee...	New pull request
LabTesting	Updated 2 years ago by Sev Leonard	New pull request
OttawaUpdates	Updated 2 years ago by susanibach	New pull request
Ottawa	Updated a year ago by susanibach	New pull request



1. **git checkout -b develop**

>> git branch

2. **git add <file name / directory name>**

3. **git commit -m “<commit message>”**

4. **git remote add origin <remote repository URL>**

5. **git push -u origin develop**



1. `git checkout -b develop`

2. `git add <file name / directory name>`

>> `git status`

3. `git commit -m "<commit message>"`

4. `git remote add origin <remote repository URL>`

5. `git push -u origin develop`



1. **git checkout -b develop**

2. **git add <file name / directory name>**

3. **git commit -m “<commit message>”**

>> git show  
>> git log  
>> git shortlog

4. **git remote add origin <remote repository URL>**

5. **git push -u origin develop**



1. `git checkout -b develop`
2. `git add <file name / directory name>`
3. `git commit -m "<commit message>"`
4. `git remote add origin <remote repository URL>`
5. `git push -u origin develop`

# Pull Request

- branch에서 완료된 작업을 리뷰 후 master로 merge 요청하기 위해 사용

The screenshot shows a GitHub repository page for 'HuiwonKo / azure-quickstart-templates'. The repository was forked from 'Azure/azure-quickstart-templates'. The top navigation bar includes 'Pull requests', 'Issues', 'Marketplace', and 'Explore' buttons. On the right, there are 'Unwatch' (1), 'Star' (0), 'Fork' (5,567), and a profile icon. Below the repository name, it says 'forked from Azure/azure-quickstart-templates'. The main navigation tabs are 'Code', 'Pull requests 0', 'Projects 0', 'Wiki', 'Insights', and 'Settings'. A 'Filters' dropdown is set to 'is:pr is:open', and there are 'Labels' and 'Milestones' buttons. A green 'New pull request' button is visible. The central area displays a 'Welcome to Pull Requests!' message with a gear icon, followed by a description: 'Pull requests help you collaborate on code with other people. As pull requests are created, they'll appear here in a searchable and filterable list. To get started, you should [create a pull request](#)'.

[Code](#)[Pull requests 0](#)[Projects 0](#)[Wiki](#)[Insights](#)[Settings](#)

Website for people who want to get started with contributing to Node.js core

[Edit](#)[Add topics](#)

234 commits

5 branches

0 releases

4 contributors

Your recently pushed branches:

develop (less than a minute ago)

[Compare & pull request](#)

Branch: master ▾

New pull request

Create new file

Upload files

Find file

Clone or download ▾



# 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](#).



base fork: Trott/nodetodo ▾

base: master ▾



head fork: HuiwonKo/nodetodo ▾

compare: develop ▾

**X** Can't automatically merge. Don't worry, you can still create the pull request.



Develop

Write

Preview

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Leave a comment

Attach files by dragging & dropping, [selecting them](#), or pasting from the clipboard. Allow edits from maintainers. [Learn more](#)**Create pull request**

Microsoft

# 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](#).

The screenshot shows the GitHub interface for opening a pull request. At the top, there are four dropdown menus: 'base fork: Trott/nodetodo', 'base: master', 'head fork: HuiwonKo/nodetodo', and 'compare: develop'. Below these is a modal titled 'Choose a Base Repository' with a 'Filter repos' input field. A list of repositories is shown, with 'HuiwonKo/nodetodo' selected and highlighted in blue. Other repositories listed include Trott/nodetodo, BridgeAR/nodetodo, Fishrock123/nodetodo, bensoft2k5/nodetodo, gibfahn/nodetodo, johnlenonmaghanoy/nodetodo, pftom/nodetodo, and trivikr/nodetodo. At the bottom left of the modal is a checked checkbox for 'Allow edits from maintainers' with a 'Learn more' link. On the right side of the modal is a green 'Create pull request' button. The background of the page shows a large text area with various text editing icons like bold, italic, and code blocks.

base fork: Trott/nodetodo ▾ base: master ▾ head fork: HuiwonKo/nodetodo ▾ compare: develop ▾

Choose a Base Repository

Filter repos

Trott/nodetodo

HuiwonKo/nodetodo

BridgeAR/nodetodo

Fishrock123/nodetodo

bensoft2k5/nodetodo

gibfahn/nodetodo

johnlenonmaghanoy/nodetodo

pftom/nodetodo

trivikr/nodetodo

Allow edits from maintainers. [Learn more](#)

Create pull request

## Modify header title #1

[Edit](#)[Open](#)HuiwonKo wants to merge 1 commit into `master` from `develop`[Conversation 0](#)[Commits 1](#)[Checks 0](#)[Files changed 1](#)[+1 -1](#)

HuiwonKo commented just now

Owner



...

Reviewers



No reviews

header 텍스트 변경

[Modify header title](#)

0c93f37

Assignees



No one—assign yourself

Labels



None yet

Projects



None yet

Milestone



No milestone

Notifications

**Continuous integration has not been set up**

Several apps are available 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](#).

Microsoft

[Code](#)[Pull requests 1](#)[Projects 0](#)[Wiki](#)[Insights](#)[Settings](#)

# Modify header title #1

[Edit](#)[Open](#)

HuiwonKo wants to merge 1 commit into `master` from `develop`

[Conversation 0](#)[Commits 1](#)[Checks 0](#)[Files changed 1](#)[+1 -1](#)

HuiwonKo commented 3 minutes ago

[Owner](#)

...

header 텍스트 변경

Modifying header title

0c93f37

Add more commits by pushing to the `develop` branch on [HuiwonKo/nodetodo](#).



Merge pull request #1 from [HuiwonKo/develop](#)

Modify header title

[Confirm merge](#)[Cancel](#)

Reviewers

No reviews

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone



Microsoft

# Modify header title #1

[Edit](#)**Merged**

HuiwonKo merged 1 commit into master from develop just now

[Conversation 0](#)[Commits 1](#)[Checks 0](#)[Files changed 1](#)[+1 -1](#)

HuiwonKo commented 4 minutes ago

Owner



...

header 텍스트 변경

[Modify header title](#)

0c93f37



HuiwonKo merged commit 1e10ab5 into master just now

[Revert](#)**Pull request successfully merged and closed**[Delete branch](#)

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

[Write](#)[Preview](#)

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Leave a comment

Reviewers

No reviews

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

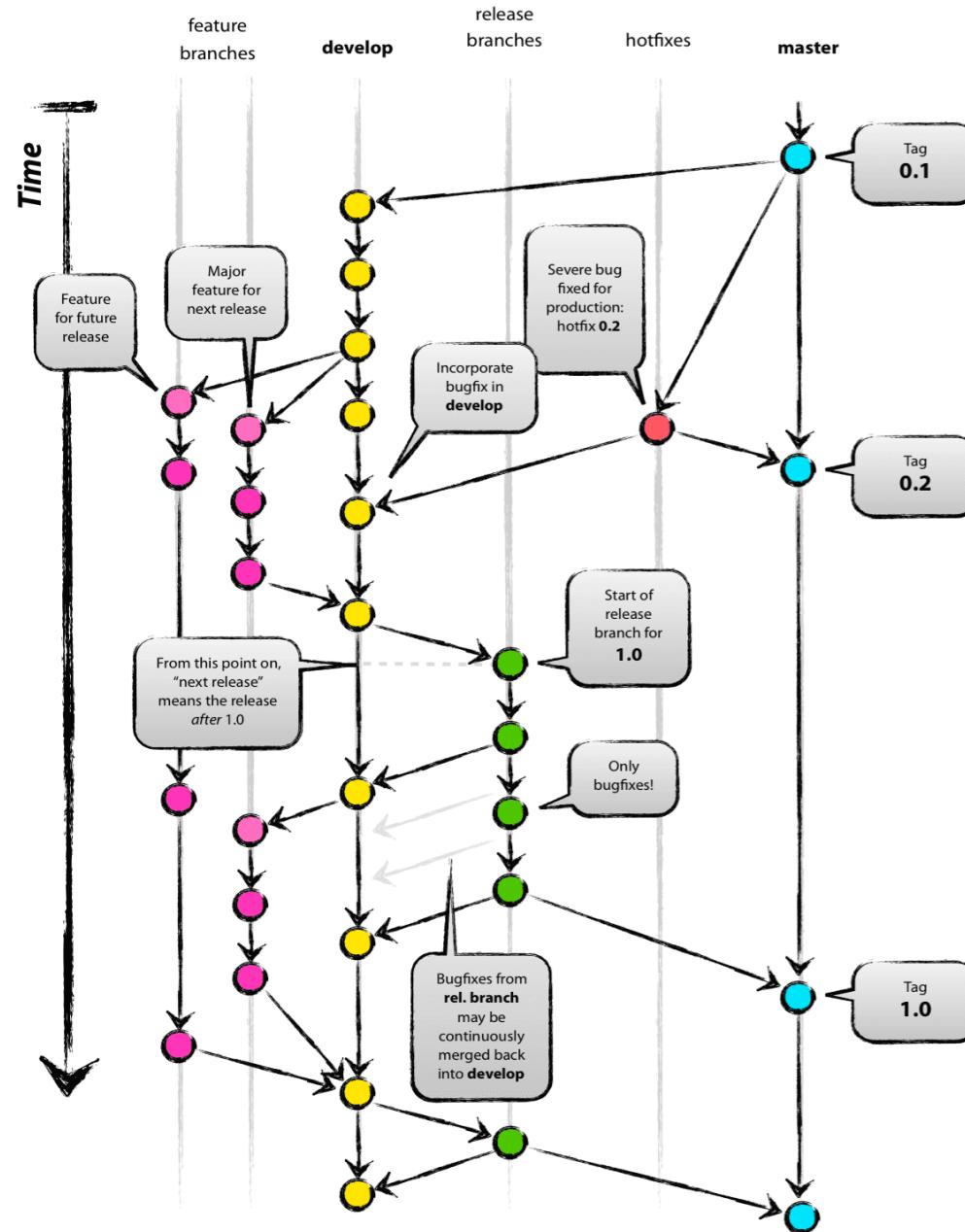
Notifications

## Issue

- bug 추적
- 개발하고 싶은 새로운 feature 를 구체화

The screenshot shows the GitHub interface for the Microsoft/computerscience repository. The top navigation bar includes links for Pull requests, Issues, Marketplace, and Explore. Below the repository name, there are buttons for Watch (111), Star (677), Fork (361), and Insights. The Issues tab is selected, showing 7 open issues. A modal window is displayed, prompting users to submit an issue, stating: "Want to submit an issue to Microsoft/computerscience? If you have a bug or an idea, browse the open issues before opening a new one. You can also take a look at the Open Source Guide." Below the modal, there are filters for Issues (is:issue is:open), Labels, Milestones, and a "New issue" button. The main list of issues includes:

- ① Add New Section on CaseStudies (#116)
- ① Issues with links on Readme.md at computerscience/Educator Content/Complimentary Course Content (#115)
- ① Add new section for online learning resources (#114)
- ① Issues with Cognitive Toolkit Lab - Images Not Displaying Correctly (#112)
- ① JupyterHub asking for a password (#110)
- ① issue with running on Azure (#109)
- ① issue about Docker in Part 2 Exercise 1 (#58)



감사합니다.