

INYRO

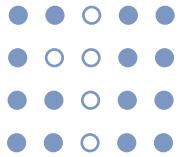
GitHub 언택트 세미나 2부

컴퓨터과학과 201810954 안지민

A+

CONTENTS

GitHub 언택트 세미나 2부



01

발표자 소개

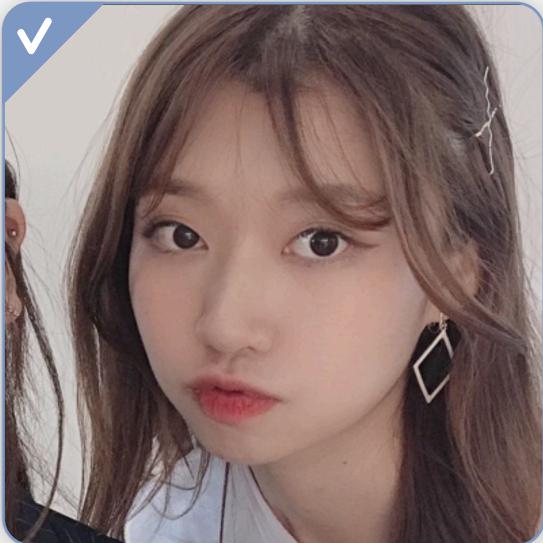
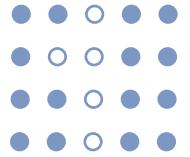
INYRO <GitHub> UN-TACT SEMINAR 2부

안지민



01 발표자 소개

GitHub 언택트 세미나 2부



컴퓨터과학과 18학번 안지민

상명대학교 프로그래밍 중앙동아리 INYRO 회장

프로젝트 경험

2019

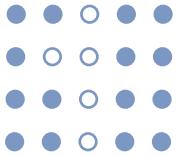
- LINUX 환경에서 개발한 <지하철 길 찾기 프로그램>
- 서울시 앱 개발 공모전 출품작 <뚜벅 서울>
- 이니로 겨울방학 앱 프로젝트 팀 <INYROGRAM>

2020

- 공개 SW 개발자 대회 <Keras를 활용한 손글씨 교정 사이트>
- CycleGAN을 활용한 Style Transfer(진행 중)
- K-pop 데이터를 활용한 노래 추천 서비스(진행 중)

01 발표자 소개

GitHub 언택트 세미나 2부



깃허브 주소 & 티스토리 주소

깃허브 : <https://github.com/jiminAn>

티스토리 : <https://codingsmu.tistory.com/>

The screenshot shows the GitHub profile page for 'jiminAn'. The profile picture is a cartoon reindeer head wearing glasses. The bio reads 'HELLO!(JIMIN AN, 23, 🇰🇷) Interested in Android app and AI, especially Deep Learning and NLP Developed several Android Apps with Java, AI Project and Studying the Deep Le...'. The 'Languages and Frameworks' section includes icons for Java, Kotlin, Python, React Native, Android, Flutter, Git, and Docker. The 'GitHub Stats' section shows: Total Stars: 4, Total Commits (2020): 628, Total PRs: 1, Total Issues: 0, and Contributed to: 4. A large 'A+' rating is displayed in a circle.



An infographic titled '인기글 BEST3' featuring three main sections: 'IT 기기 관련 리뷰' (with a laptop icon), '인공지능기초' (with a reindeer icon), and '고급 객체지향프로그래밍' (with a reindeer icon). Below these are links to '[컴공 대학생] 데스크톱 셋업', '02 Linear Algebra', and 'SOLID 원칙'.

02

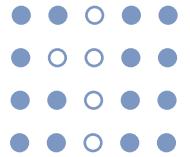
GitHub GUI

INYRO <GitHub> UN-TACT SEMINAR 2부

안지민



02 Github GUI



GitHub 언택트 세미나 2부

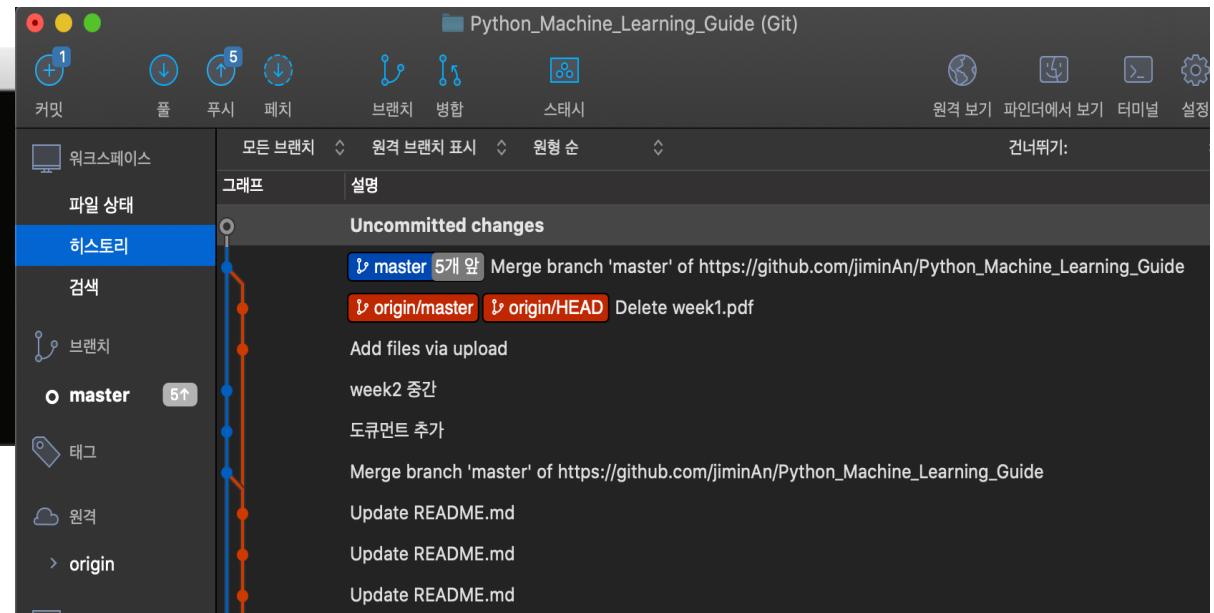
Git GUI란?

GUI란 Graphical User Interface의 약자로

명령이나 작업을 이해하기 쉽도록 프로젝트 히스토리를 시각화하는 도구

```
$ git status
# On branch master
# Changes to be committed:
#   (use "git reset HEAD <file>..." to unstage)
#
#       new file:   readme.txt
#
03:11 PM /Data/Development/Bender (master)
$
```

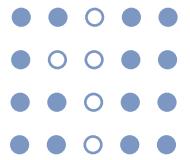
<Git bash 이용 화면>



<Git GUI 이용 화면>

02 Github GUI

GitHub 언택트 세미나 2부

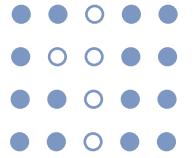


다양한 운영체제에 맞게 다양한 Git GUI 클라이언트 존재



Github Desktop vs. Sourcetree

GitHub 언택트 세미나 2부



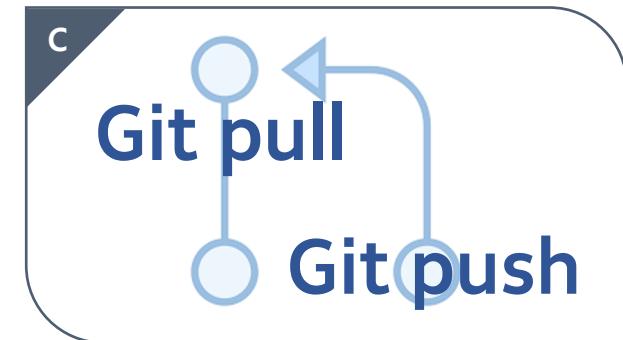
Git 저장소 만들기

Git저장소를 생성하고 싶은
로컬 경로에 \$git init



Git 저장소 내려 받기

Git 저장소에 있는 레포지터리를
로컬 경로에 내려받기



Git 업데이트

\$git pull : 로컬에 업데이트
\$git push : 원격에 업데이트

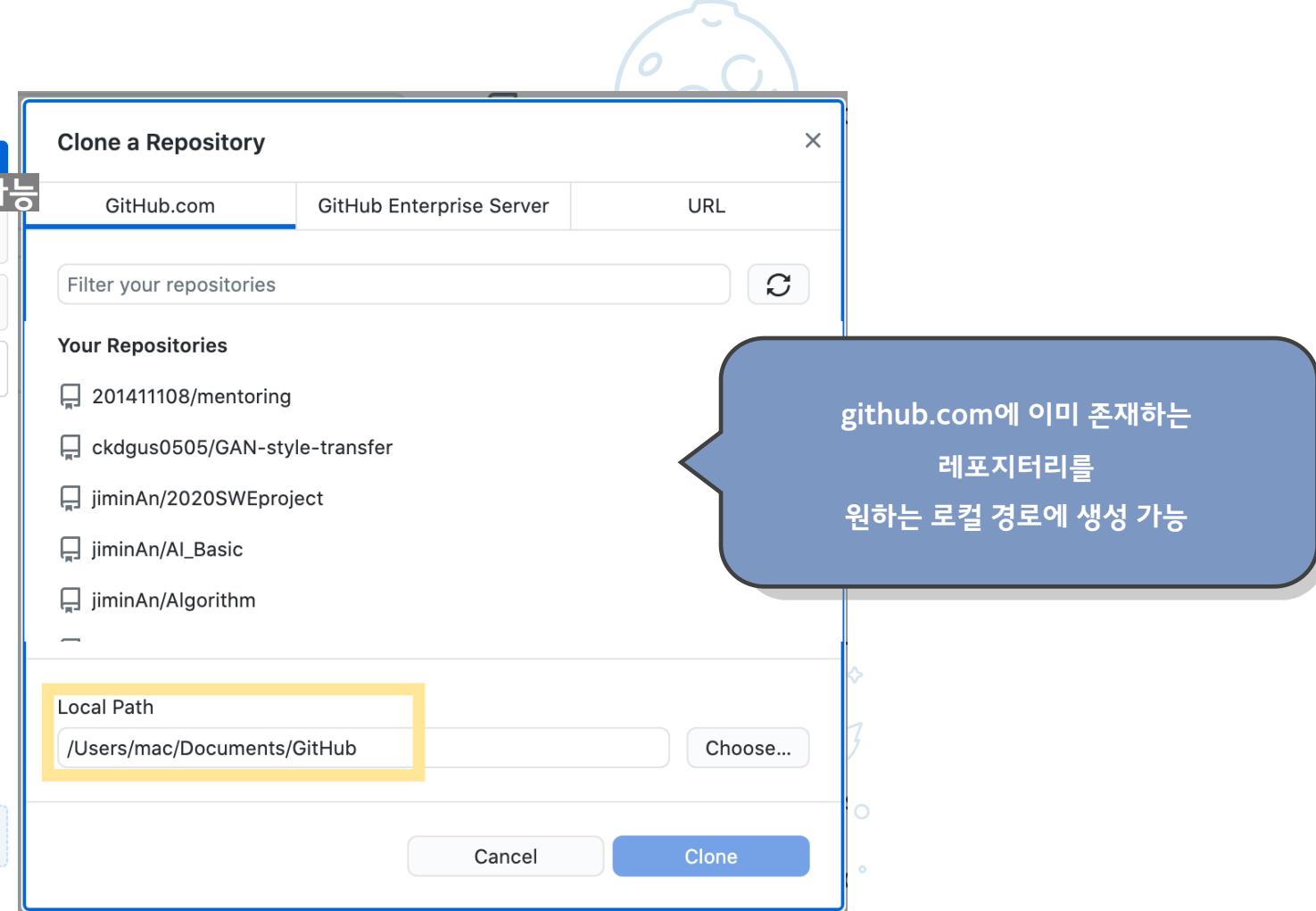
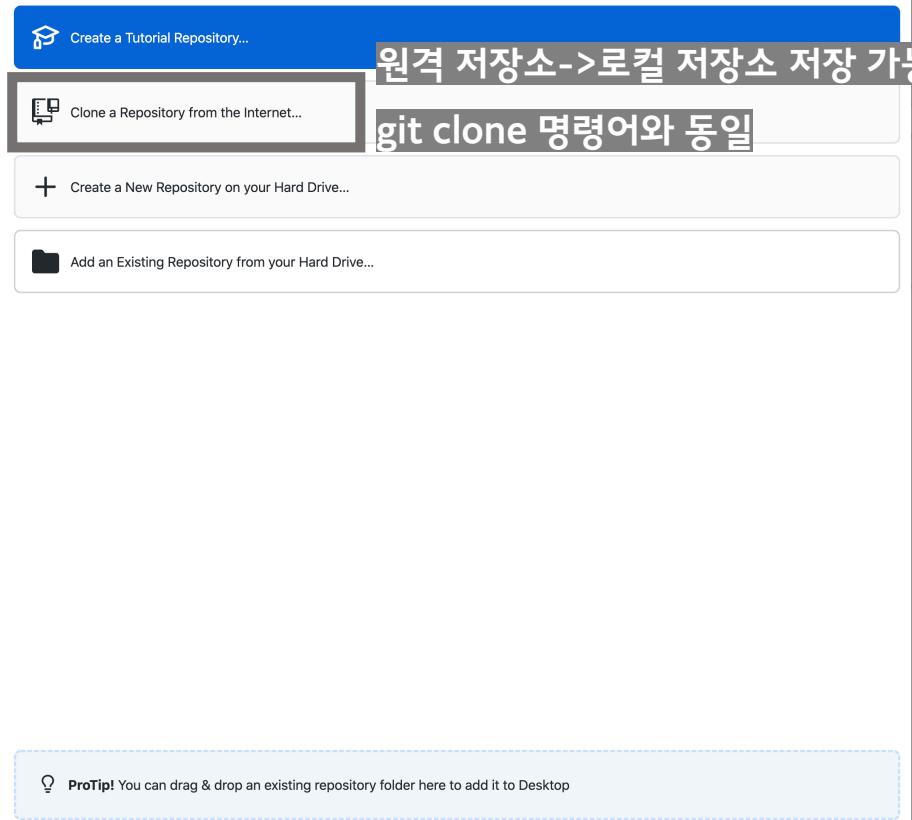
02-1 Git clone

GitHub 언택트 세미나 2부



Let's get started!

Add a repository to GitHub Desktop to start collaborating



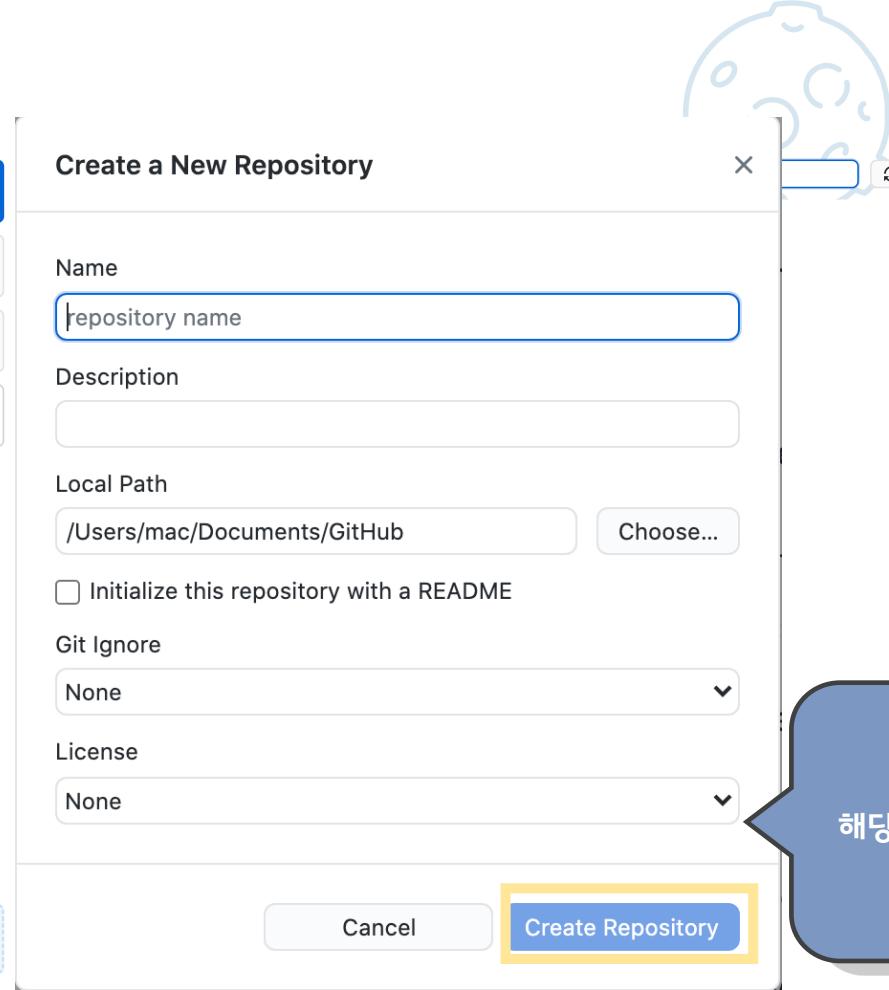
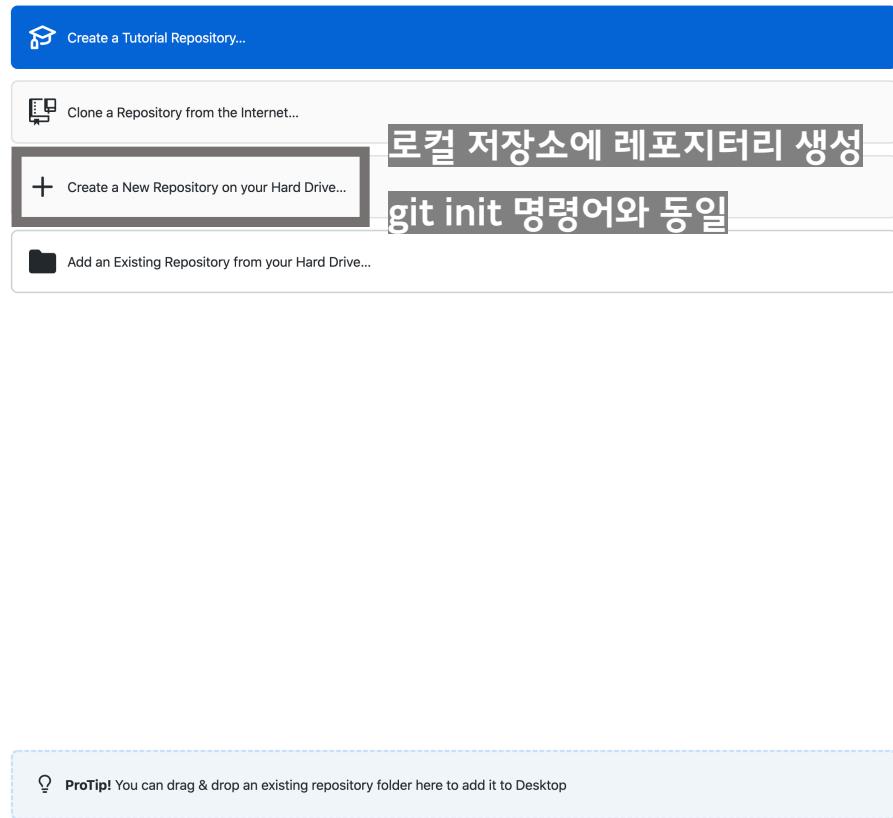
02-1 Git init

GitHub 언택트 세미나 2부



Let's get started!

Add a repository to GitHub Desktop to start collaborating



*주의
해당 버튼을 누르면 로컬에만 저장소가 생길
뿐, 원격 저장소에는 생기지 않는다!

02-1 Git init

GitHub 언택트 세미나 2부



No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



Publish your repository to GitHub

This repository is currently only available on your local machine. By publishing it on GitHub you can share it, and collaborate with others.

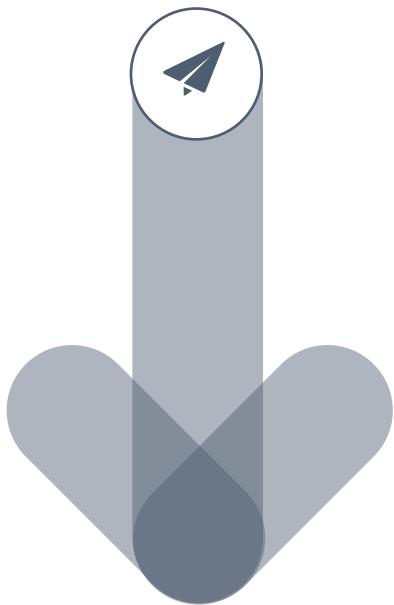
Always available in the toolbar for local repositories or  

Publish repository

해당 버튼을 누른 후에야
원격 저장소인 깃허브에
리포지터리 등록

02-1 Git pull

GitHub 언택트 세미나 2부



Git pull

Git 저장소의 변경사항
로컬에 업데이트 하기

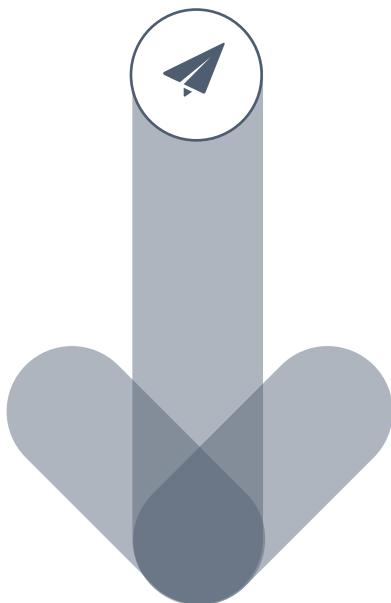
The screenshot shows a GitHub repository named "jiminAn / NEW" (Private). The "Code" tab is selected. Below the tabs, it shows "main" branch, "1 branch", and "0 tags". The commit history lists two commits:

- jiminAn Create hi.txt (Initial commit, 16 hours ago)
- hi.txt (Create hi.txt, 8 minutes ago)

A blue callout bubble points to the second commit with the Korean text: “hi.txt” 파일을 원격 저장소에 생성

02-1 Git pull

GitHub 언택트 세미나 2부



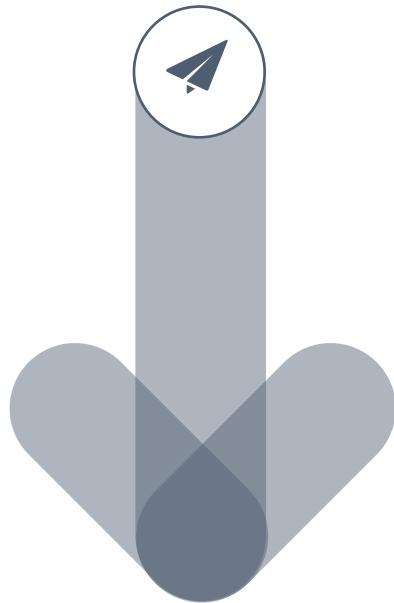
Git pull

Git 저장소의 변경사항
로컬에 업데이트 하기

The screenshot shows the GitHub Desktop application interface. At the top, there are three dropdown menus: "Current Repository" set to "NEW", "Current Branch" set to "main", and a "Fetch origin" button which is highlighted with a yellow box. Below these are two tabs: "Changes" (selected) and "History". Under the "Changes" tab, it says "0 changed files". To the right of the interface, a large blue callout bubble contains the Korean text "새로고침 효과" (Refresh effect). The main content area displays the message "No local changes" and "There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next." It lists three options: "Pull 1 commit from the origin remote" (with a "Pull origin" button), "View the files of your repository in Finder" (with a "Show in Finder" button), and "Open the repository page on GitHub in your browser" (with a "View on GitHub" button). There are also small decorative icons of a document and a gear in the background.

02-1 Git pull

GitHub 언택트 세미나 2부



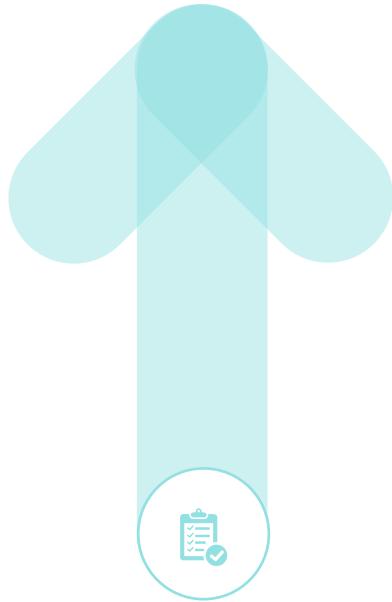
Git pull

Git 저장소의 변경사항
로컬에 업데이트 하기



02-1 Git push

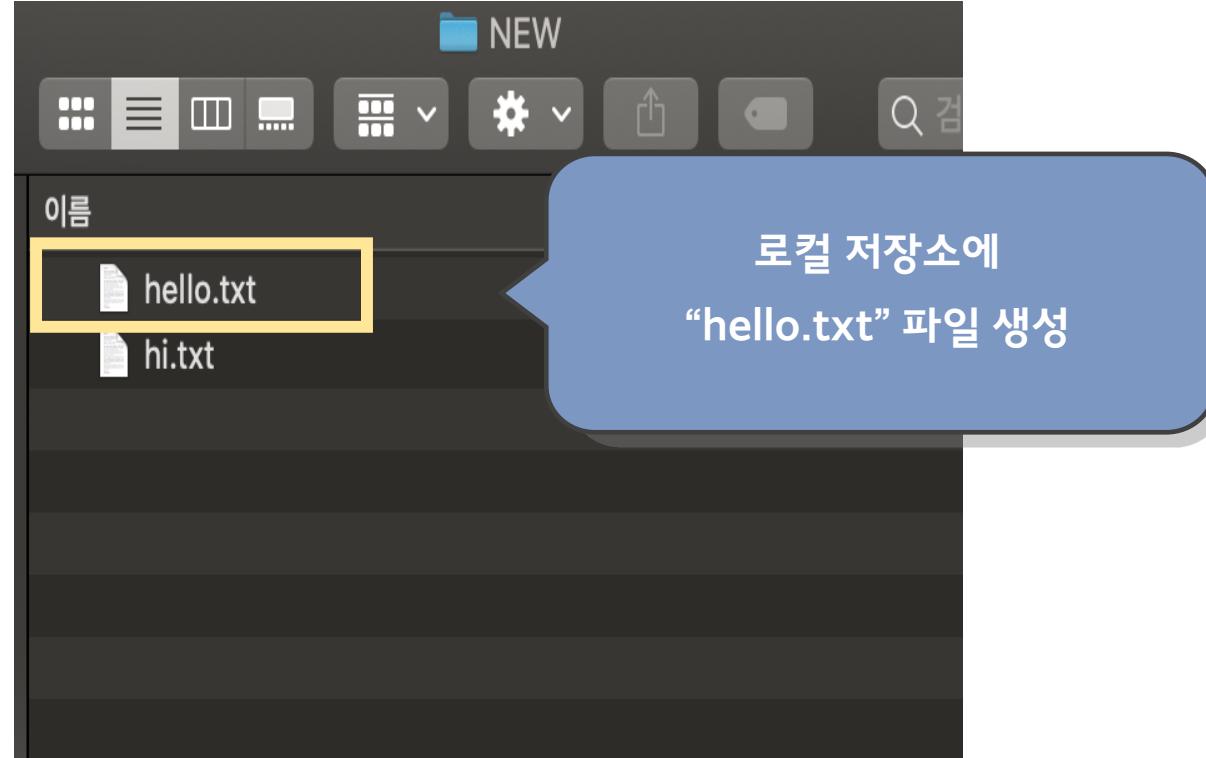
GitHub 언택트 세미나 2부



Git push

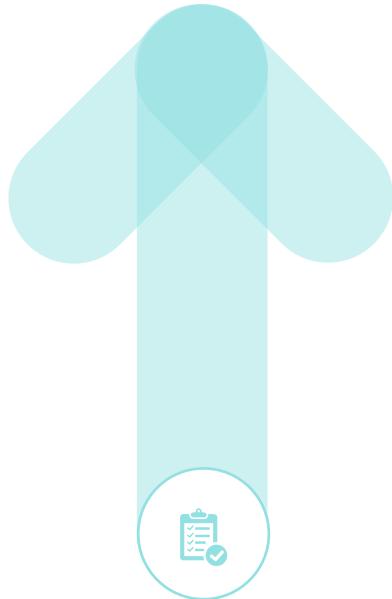
로컬 변경 사항

Git 저장소에 업데이트 하기



02-1 Git push

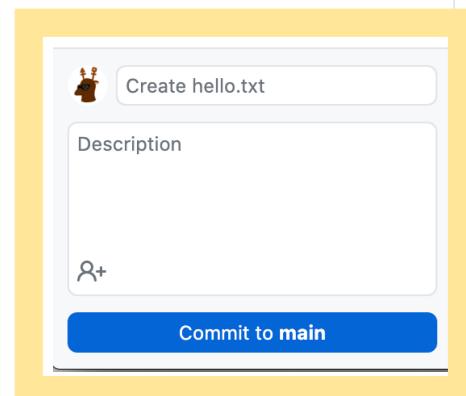
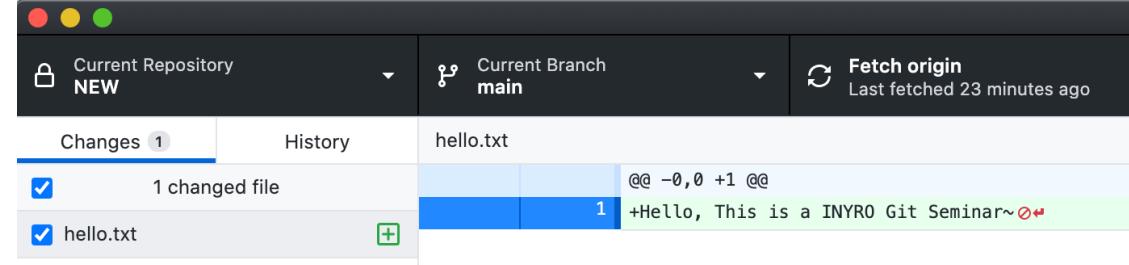
GitHub 언택트 세미나 2부



Git push

로컬 변경 사항

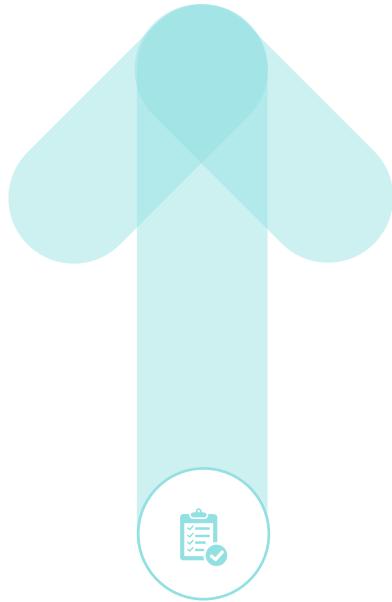
Git 저장소에 업데이트 하기



Git Commit
수정 사항 코멘트 달기

02-1 Git push

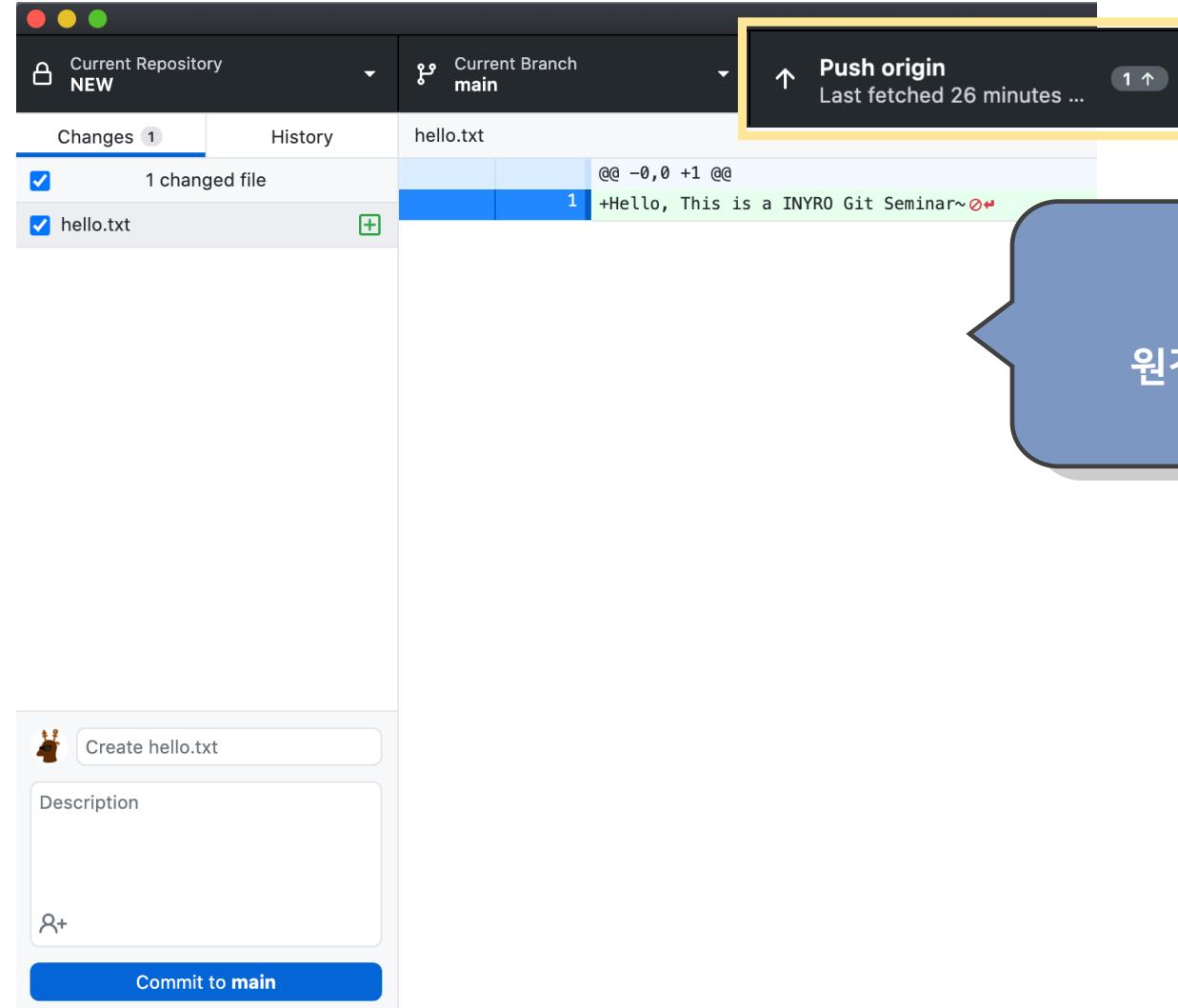
GitHub 언택트 세미나 2부



Git push

로컬 변경 사항

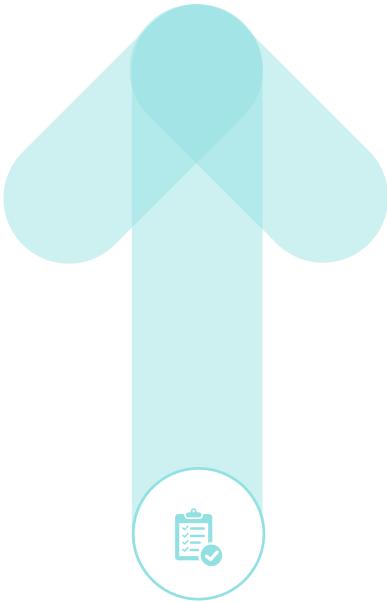
Git 저장소에 업데이트 하기



Git Push
원격 저장소에 업데이트

02-1 Git push

GitHub 언택트 세미나 2부

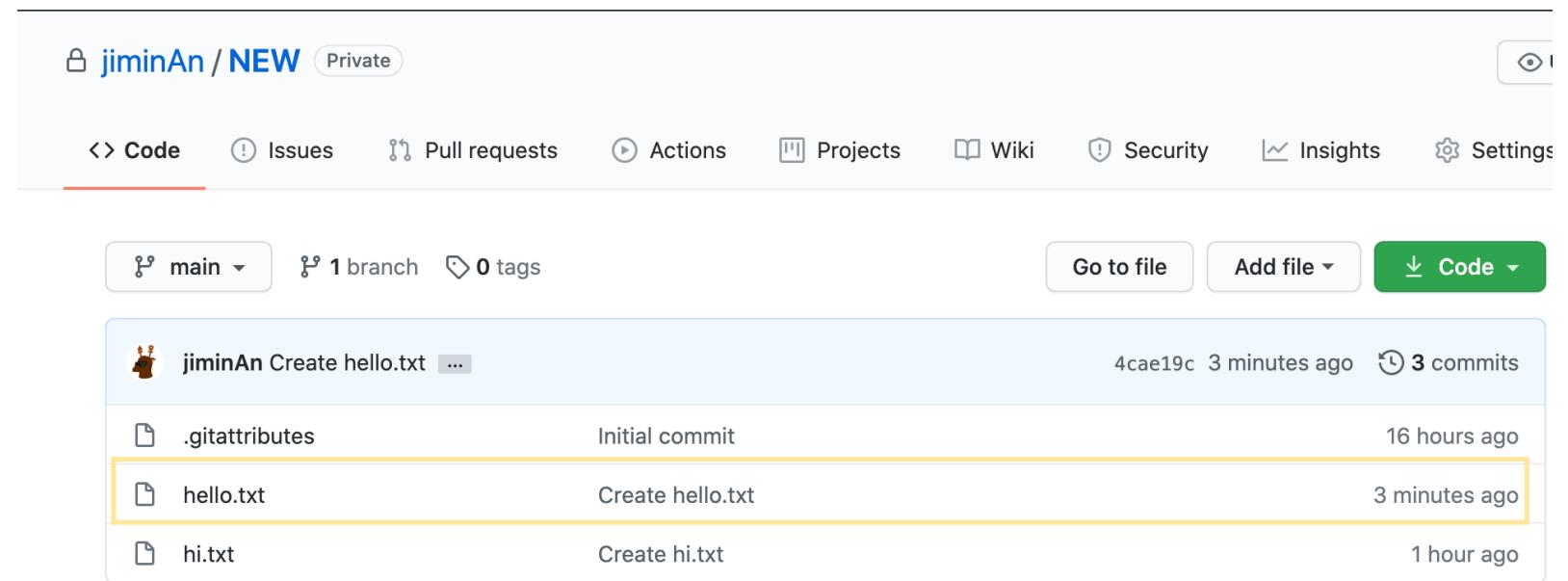


Git push

로컬 변경 사항

Git 저장소에 업데이트 하기

| 원격 저장소에 업데이트 완료



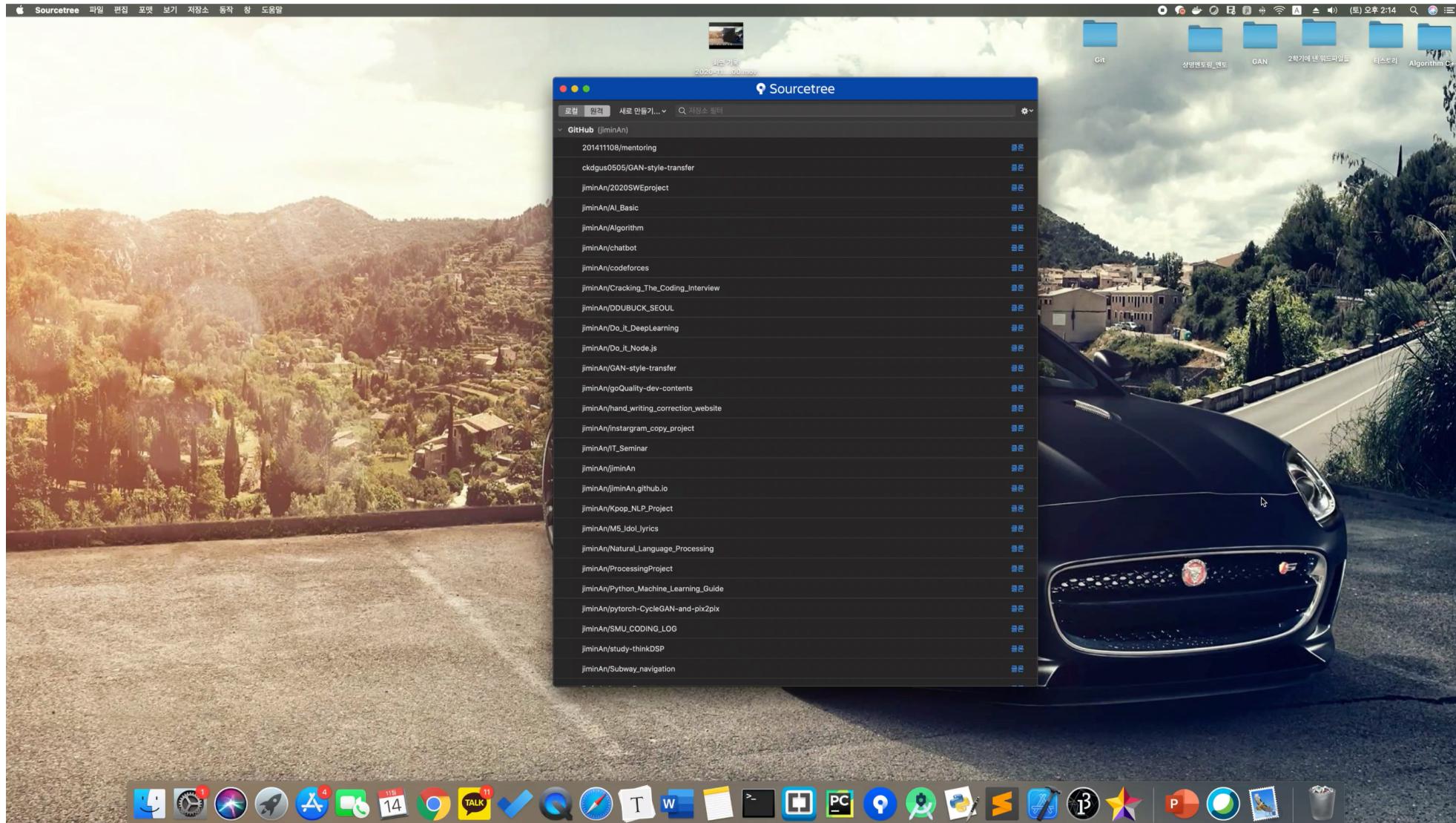
A screenshot of a GitHub repository page for the user 'jiminAn'. The repository is named 'NEW' and is marked as 'Private'. The 'Code' tab is selected. At the top, it shows 'main' branch, '1 branch', and '0 tags'. Below the navigation bar, there's a commit history:

Author	Commit Message	Date	Commits
jiminAn	Create hello.txt ...	4cae19c 3 minutes ago	3 commits
	.gitattributes	Initial commit	16 hours ago
	hello.txt	Create hello.txt	3 minutes ago
	hi.txt	Create hi.txt	1 hour ago

02-2 Git clone

GitHub 언택트 세미나 2부

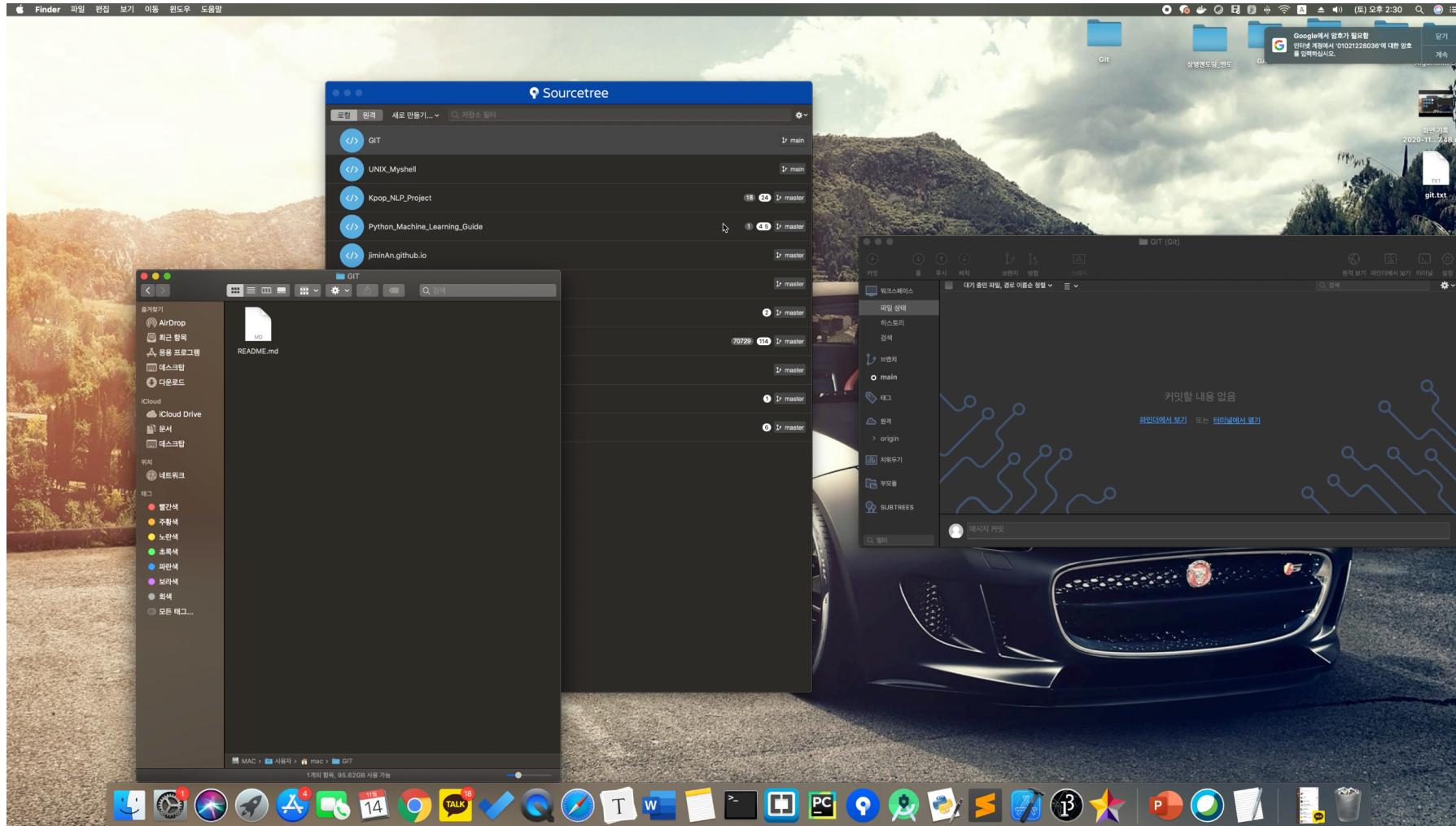
Sourcetree



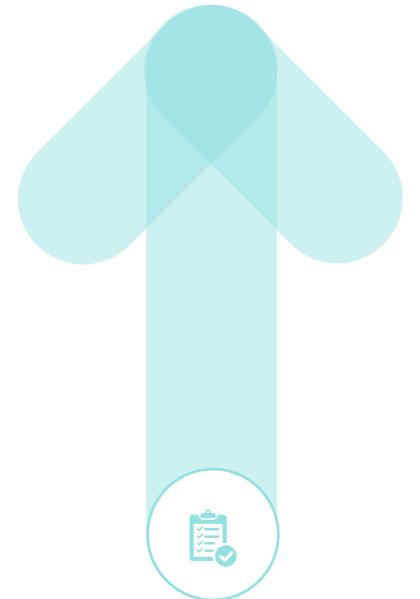
02-2 Git push

GitHub 언택트 세미나 2부

Sourcetree



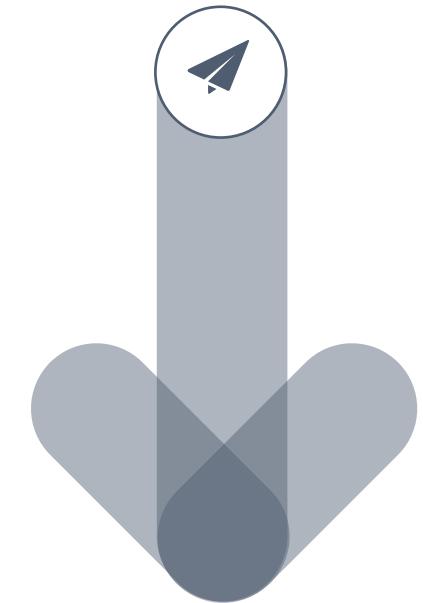
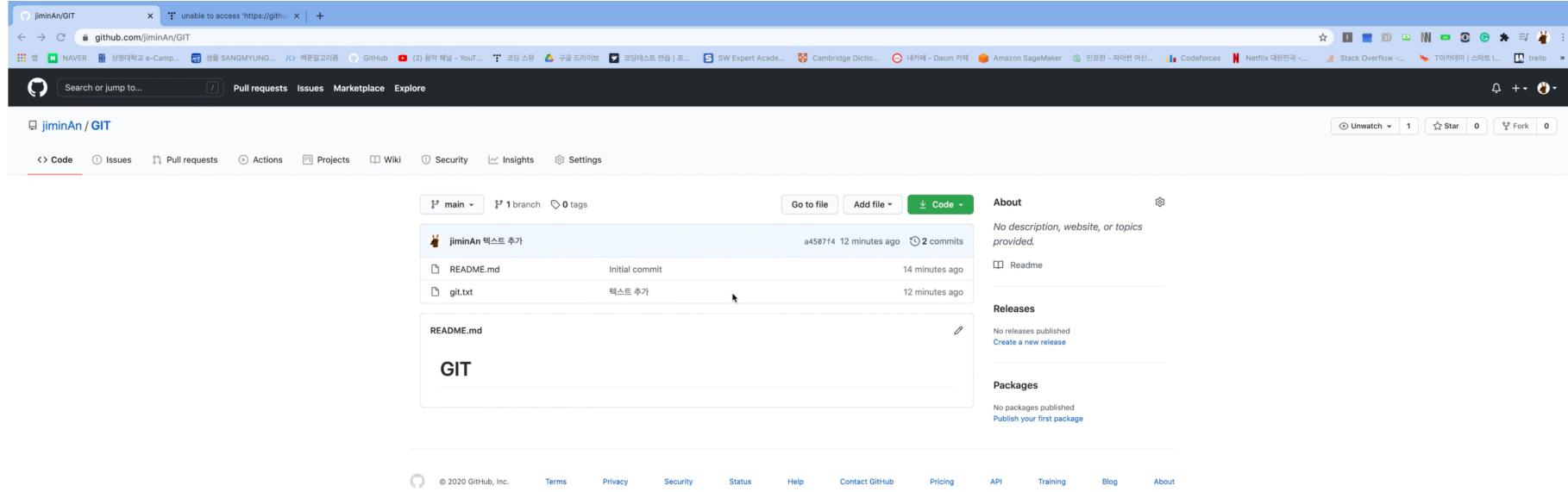
Git push
로컬 변경 사항
Git 저장소에 업데이트 하기



02-2 Git pull

GitHub 언택트 세미나 2부

Sourcetree



Git pull

Git 저장소의 변경사항
로컬에 업데이트 하기

03

GitHub로 협업하기

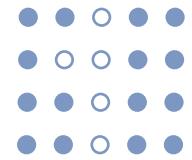
INYRO <GitHub> UN-TACT SEMINAR 2부

안지민



03-1 프로젝트에 팀원 추가하기

GitHub 언택트 세미나 2부

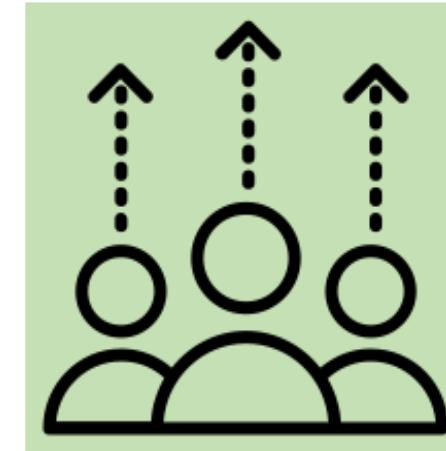


| Collaborator vs. Contributor



프로젝트의 공동 책임자

- push&pull 권한 O
- 최초 프로젝트 관리자가 직접 추가

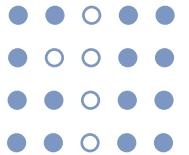


프로젝트 커밋 관여자

- push&pull 권한 X
- Pull Request 생성

03-1 GitHub Collaborator 추가하기

GitHub 언택트 세미나 2부



| 해당 프로젝트 → Settings → Manage access → Invite a collaborator

The screenshot shows a GitHub repository page for 'jiminAn / GIT'. The 'Settings' tab is selected. On the left, a sidebar lists various options: Options, Manage access (which is highlighted with a yellow box), Security & analysis, Branches, Webhooks, Notifications, Integrations, Deploy keys, Autolink references, Actions, Secrets, and Moderation settings. The main area displays information about access: 'Who has access' for a public repository (visible to anyone) and 'Manage access' where no collaborators have been invited yet. A green button labeled 'Invite a collaborator' is highlighted with a yellow box.

jiminAn / GIT

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Unwatch 1 Star 0 Fork 0

Options

Manage access

Security & analysis

Branches

Webhooks

Notifications

Integrations

Deploy keys

Autolink references

Actions

Secrets

Moderation settings

Who has access

PUBLIC REPOSITORY

This repository is public and visible to anyone.

DIRECT ACCESS

0 collaborators have access to this repository. Only you can contribute to this repository.

Manage

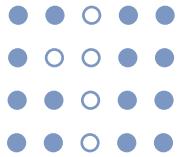
Manage access

You haven't invited any collaborators yet

Invite a collaborator

03-1 GitHub Collaborator 추가하기

GitHub 언택트 세미나 2부



| 해당 프로젝트 → Settings → Manage access → Invite a collaborator

The screenshot shows a GitHub repository page for 'jiminAn / GIT'. A modal window titled 'Invite a collaborator to GIT' is open. Inside the modal, there is a list of users with a profile picture and name: 'Jaeyoung Lim' (limjustin). At the bottom of the modal is a large green button labeled 'Add limjustin to this repository'. In the background, the main repository page shows basic statistics: 1 watch, 0 stars, and 0 forks. A tooltip bubble with Korean text '추가하고 싶은 팀원의 아이디 입력' (Enter the ID of the team member you want to add) points to the input field where the user's ID was entered.

jiminAn / GIT

Unwatch 1 Star 0 Fork 0

Settings

Invite a collaborator to GIT

X

Jaeyoung Lim
limjustin

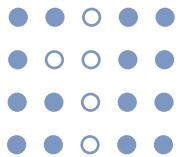
Add limjustin to this repository

Invite a collaborator

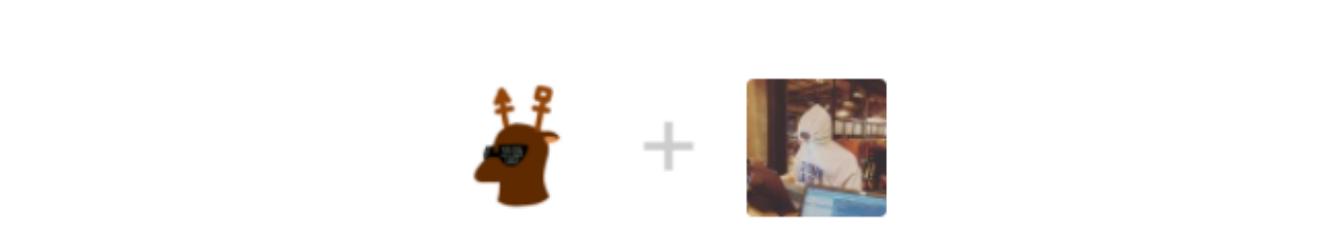
추가하고 싶은 팀원의 아이디 입력

03-1 GitHub Collaborator 추가하기

GitHub 언택트 세미나 2부



GitHub



@jiminAn has invited you to collaborate on the
jiminAn/GIT repository

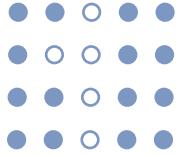
You can [accept](#) or [decline](#) this invitation. You can also head over to <https://github.com/jiminAn/GIT> to check out the repository or visit [@jiminAn](#) to learn a bit more about them.

This invitation will expire in 7 days.

[View invitation](#)

03-2 Github로 협업하기

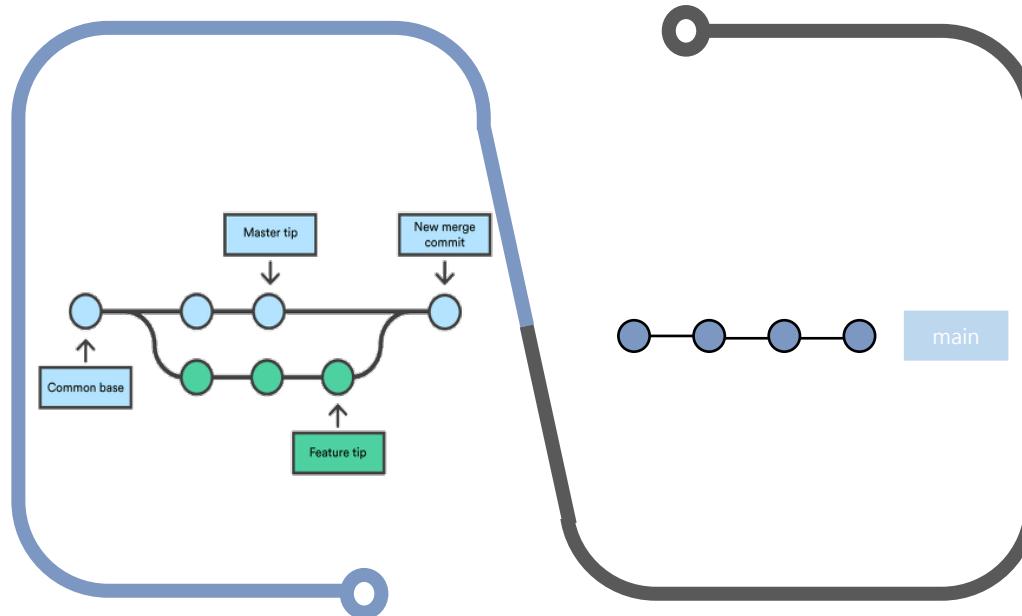
GitHub 언택트 세미나 2부



Branch 사용

Branch, merge를 사용한
프로젝트 협업 방법

프로젝트 규모 ↑



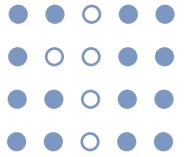
Main 사용

Main(구 Master) branch만을
사용한 프로젝트 협업 방법

프로젝트 규모 ↓

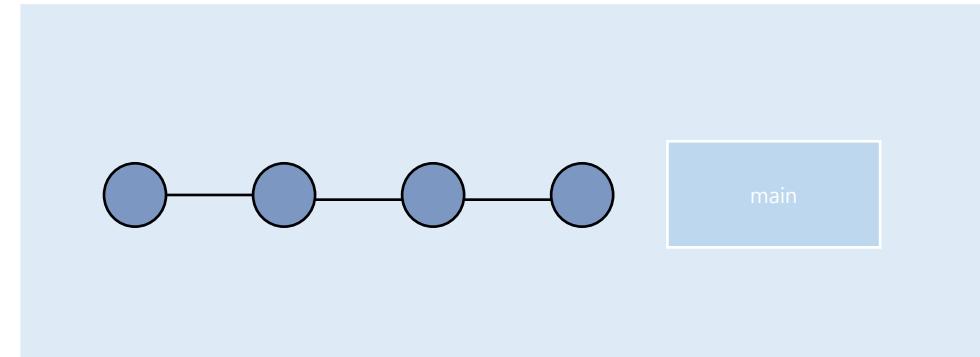
Main 사용(기초)

GitHub 언택트 세미나 2부



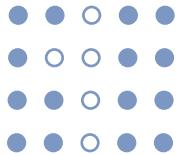
| Main branch 하나만을 사용해서 작업

- 2020.10.01 부로 Master → Main으로 branch 이름 변경
- 주로 규모가 작은 프로젝트에서 사용되는 방식



Main 사용(기초)

GitHub 언택트 세미나 2부



The screenshot shows the GitHub repository settings for 'jiminAn/GIT'. The left sidebar contains a navigation menu with options like Options, Manage access, Security & analysis, Branches, Webhooks, Notifications, Integrations, Deploy keys, Autolink references, Actions, Secrets, and Moderation settings. The main content area is divided into two sections: 'Settings' and 'Features'.

Settings

- Repository name:** GIT [Rename](#)
- Template repository**: Template repositories let users generate new repositories with the same directory structure and files. [Learn more](#).
- Social preview**: Upload an image to customize your repository's social media preview. Images should be at least 640x320px (1280x640px for best display). [Download template](#)
- [Edit](#)

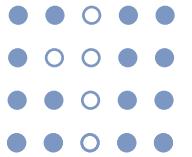
Features

- Wikis**
- Restrict editing to collaborators only**: Public wikis will still be readable by everyone.
- Issues**: Issues integrate lightweight task tracking into your repository. Keep projects on track with issue labels and milestones, and reference them in commit messages.

Get organized with issue templates: Give contributors issue templates that help you cut through the noise and help them push your project forward. [Set up templates](#)

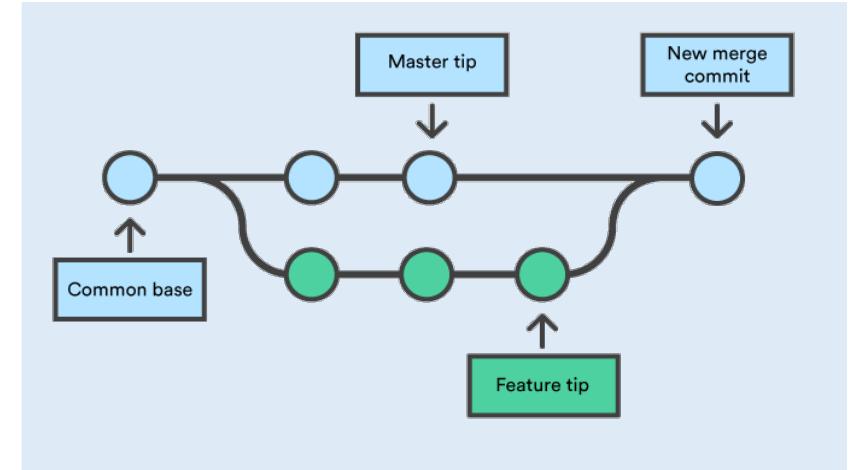
03-2 Branch 사용(심화)

GitHub 언택트 세미나 2부

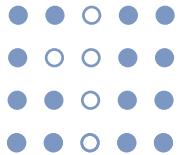


| branch를 여러개 사용해서 작업

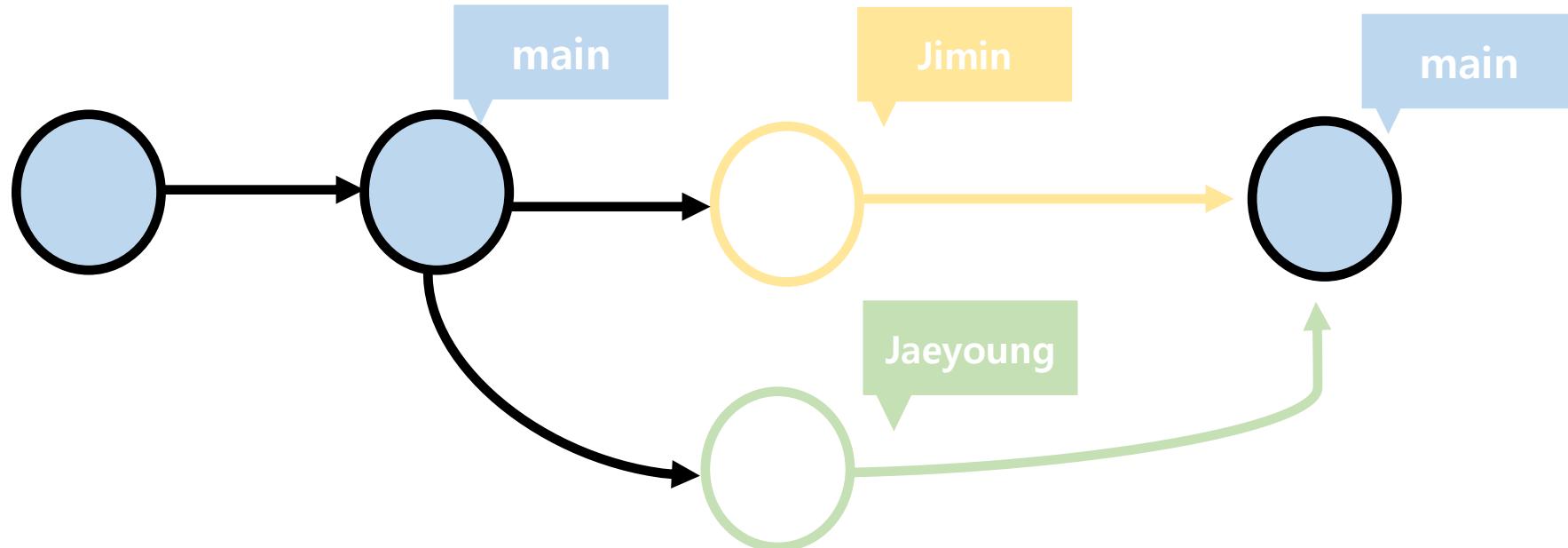
- 주로 규모가 큰 프로젝트에서 사용되는 방식
- 버전 관리가 필요한 프로젝트에서 사용



03-2 Branch 사용(심화)

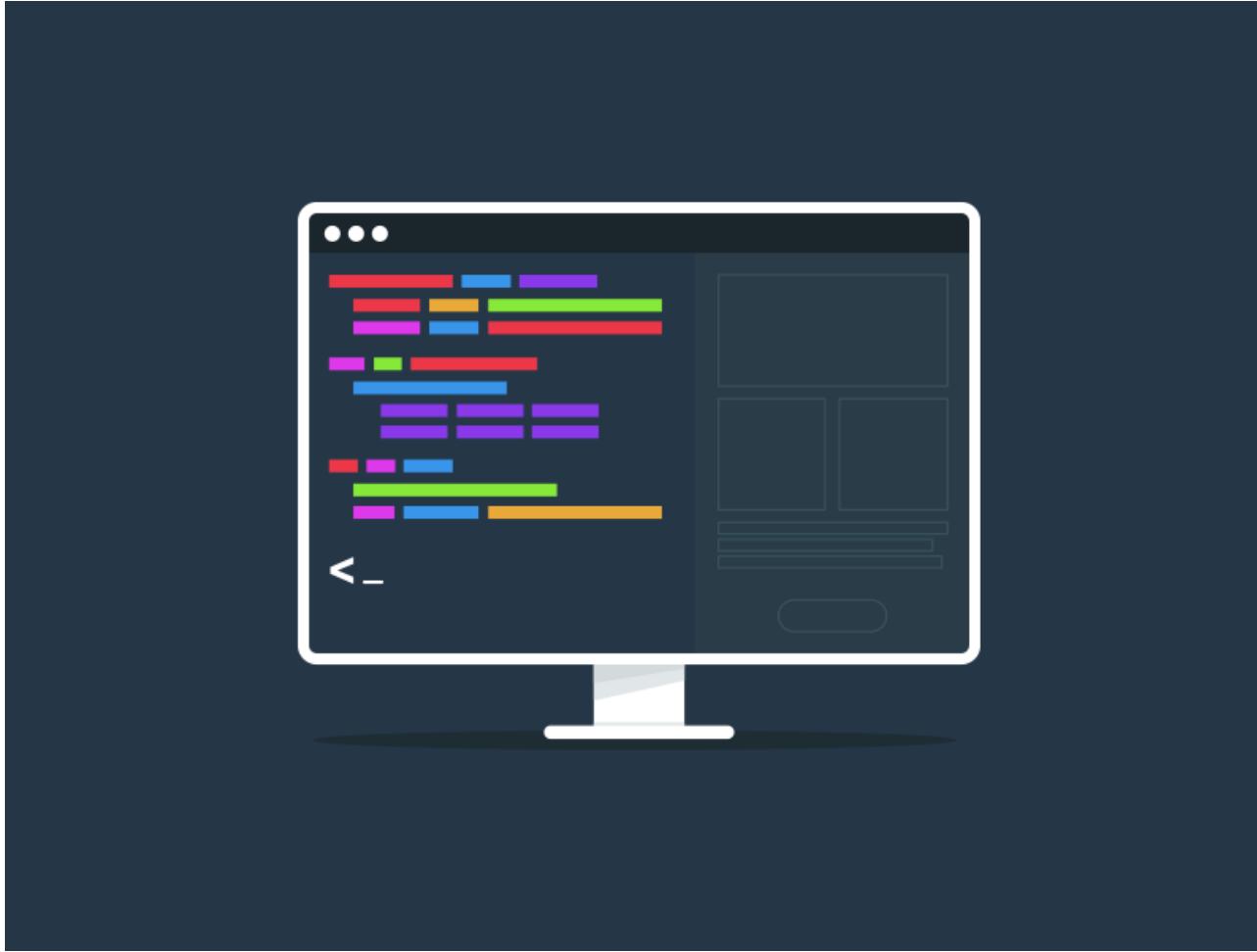
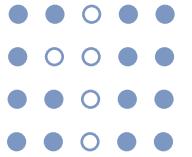


GitHub 언택트 세미나 2부



03-2 Branch 사용(심화)

GitHub 언택트 세미나 2부



| 실습