

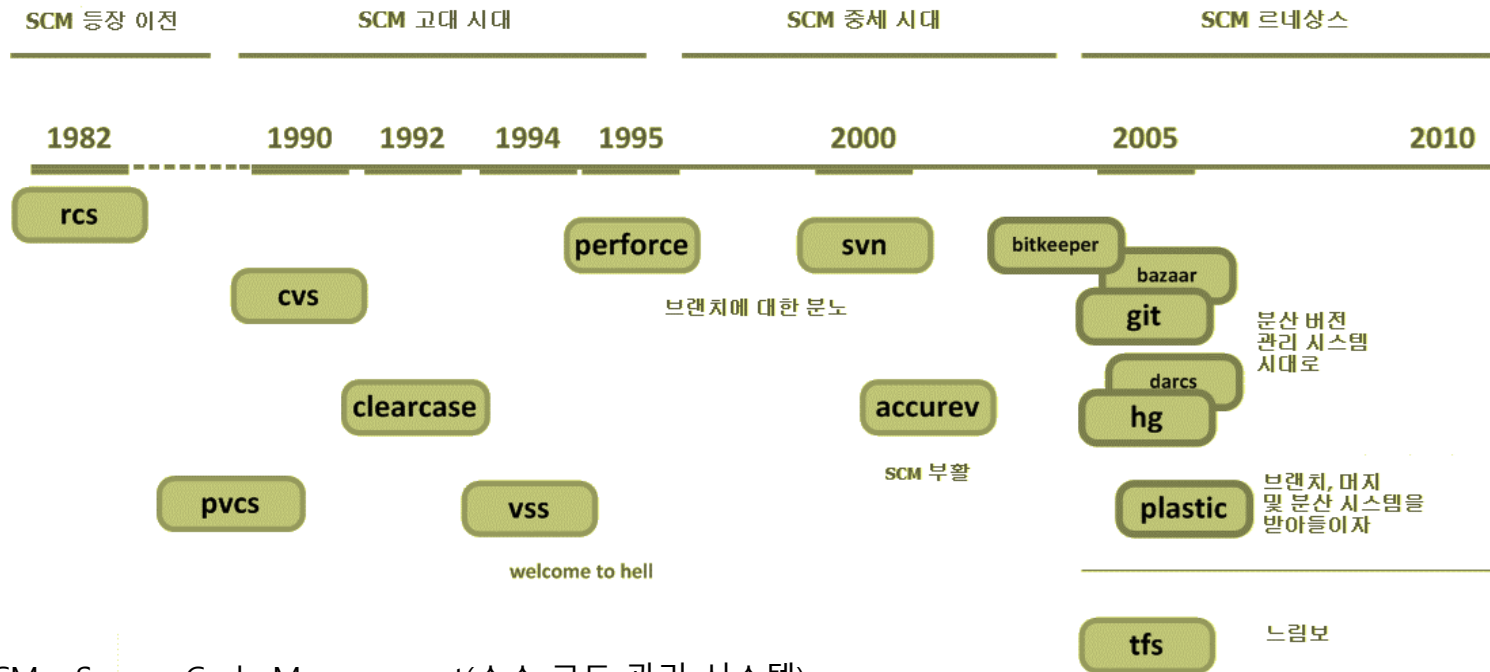
GIT 설치 및 사용법

GitHub + slack 연동을 통한 팀원 간 커뮤니케이션 강화

버전관리시스템 등장



버전관리시스템 역사



* SCM - Source Code Management(소스 코드 관리 시스템)

[출처] <http://blog.plastic SCM.com/2010/11/version-control-timeline.html>

버전관리시스템 비교

[출처] http://korea-sw-eng.blogspot.kr/2016/03/blog-post_66.html

	svn	git
그림	<p>The diagram illustrates the SVN architecture. At the top is an orange box labeled 'CVS Repository'. Below it are three blue computer icons. Arrows show the flow of data: blue arrows for 'checkout, update' and red arrows for 'checkin, commit'.</p>	<p>The diagram illustrates the Git architecture. It shows three horizontal bars: an orange bar for '원격 저장소' (Remote Storage), a red bar for '로컬 저장소' (Local Storage), and a blue bar for '작업 공간' (Working Space). Arrows indicate the flow of data: blue arrows for checkout and commit, and red arrows for update and push/pull.</p>
개요	<ul style="list-style-type: none"> - 중앙 집중형 클라이언트-서버 방식 	<ul style="list-style-type: none"> - 분산형 방식으로 각 로컬 PC에 스스로 완전한 저장소가 구성되며, 필요에 따라 중앙 집중형 방식으로도 운영 가능
장점	<ul style="list-style-type: none"> - CVS 사용자가 쉽게 적응 가능 - 디렉토리나 파일을 자유롭게 이동해도 이력 유지 - CVS에 비해 빠른 속도 - atomic commit으로 커밋 실패 시 롤백 지원 	<ul style="list-style-type: none"> - branch 생성, 이동, 병합이 매우 가벼워 코드 꼬임 위험 감소 - 각 로컬에 완전한 로컬 저장소가 있으므로 원격 저장소에 장애가 나도 쉽게 복구 가능 - 여러 번의 커밋을 로컬 저장소에 실행하고, 모아진 커밋을 원격 저장소에 반영할 수 있으므로 네트워킹 빈도 줄고 속도 향상
단점	<ul style="list-style-type: none"> - trunc, branch, tag가 모두 물리적인 저장 위치를 점유하므로 비효율적 - git에 비해 branch, tag 작업이 무거움 	<ul style="list-style-type: none"> - CVS, SVN과 기본 개념이 많이 달라 적응 시간 필요 - checkout, commit 등 텍스트는 같지만 의미나 동작이 다른 SVN이나 CVS와 다른 명령어가 있어 혼란 야기 - 빈 디렉토리는 저장되지 않음

사용할 프로그램 종류



GitHub

분산 버전 관리 툴인 깃(Git)을 사용하는
프로젝트를 지원하는 웹 호스팅 서비스



협업용 메신저

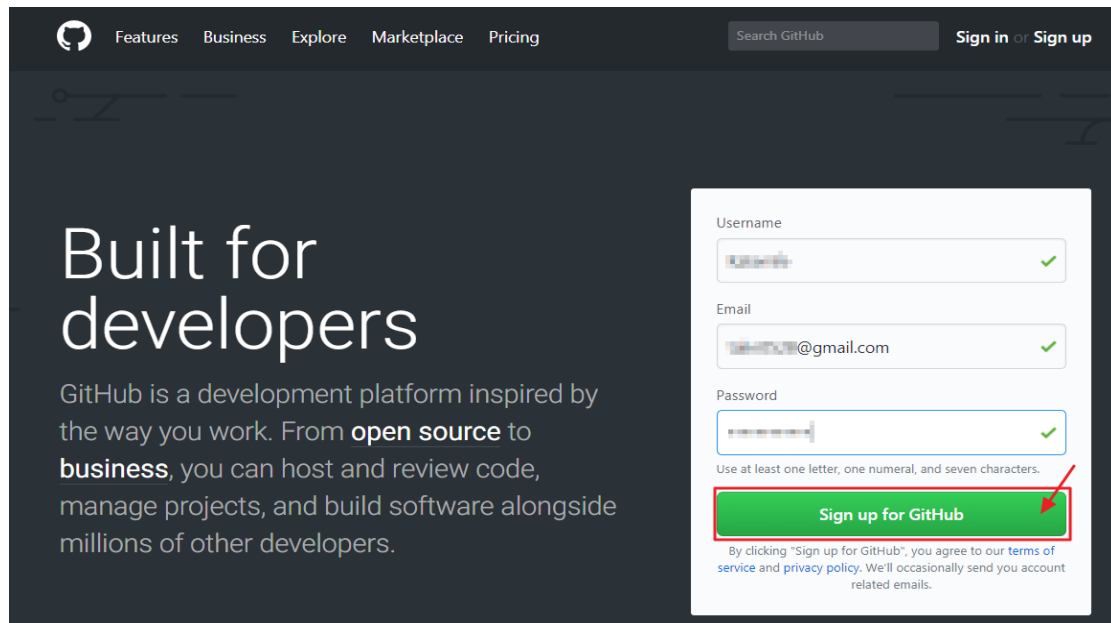


SourceTree

Git 리포지토리에 대한 GUI를 제공하는
Windows 및 Mac용 무료 Git Client

GitHub 사용법(1)

- <https://github.com/> 에 접속한다.
- Username, Email, Password 설정 후, Sign up 버튼을 클릭한다.



The screenshot shows the GitHub homepage with a dark theme. On the right side, there is a white sign-up form. The form contains three input fields: 'Username' with a green checkmark, 'Email' with a green checkmark and a placeholder '@gmail.com', and 'Password' with a green checkmark. Below the password field is a note: 'Use at least one letter, one numeral, and seven characters.' A red rectangle highlights the green 'Sign up for GitHub' button, with a red arrow pointing to it. Below the button, there is a small disclaimer: 'By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy policy](#). We'll occasionally send you account related emails.'

Features Business Explore Marketplace Pricing Search GitHub Sign in or Sign up

Built for developers

GitHub is a development platform inspired by the way you work. From **open source** to **business**, you can host and review code, manage projects, and build software alongside millions of other developers.

Username

Email

Password

Use at least one letter, one numeral, and seven characters.

[Sign up for GitHub](#)




By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy policy](#). We'll occasionally send you account related emails.

GitHub 사용법(2)

- Continue 버튼을 클릭한다.

Welcome to GitHub

You've taken your first step into a larger world, @[github](#).

 Completed Set up a personal account	 Step 2: Choose your plan	 Step 3: Tailor your experience
---	--	--

Choose your personal plan

<input checked="" type="radio"/> Unlimited public repositories for free.
<input type="radio"/> Unlimited private repositories for \$7/month.

Don't worry, you can cancel or upgrade at any time.

☐ **Help me set up an organization next**
Organizations are separate from personal accounts and are best suited for businesses who need to manage permissions for many employees.
[Learn more about organizations](#)

☐ **Send me updates on GitHub news, offers, and events**
Unsubscribe anytime in your email preferences. [Learn more](#)

Continue

Both plans include:

- ✓ Collaborative code review
- ✓ Issue tracking
- ✓ Open source community
- ✓ Unlimited public repositories
- ✓ Join any organization

GitHub 사용법(3)

- Skip this step 버튼을 클릭한다.

Welcome to GitHub

You'll find endless opportunities to learn, code, and create, @Kiwomk

✓ Completed Set up a personal account	🔧 Step 2: Choose your plan	⚙️ Step 3: Tailor your experience
--	-------------------------------	--------------------------------------

How would you describe your level of programming experience?

- ☐ Very experienced ☐ Somewhat experienced ☐ Totally new to programming

What do you plan to use GitHub for? (check all that apply)

- ☐ Development ☐ Project Management ☐ School projects
☐ Research ☐ Design ☐ Other (please specify)

Which is closest to how you would describe yourself?

- ☐ I'm a professional ☐ I'm a student ☐ I'm a hobbyist
☐ Other (please specify)

What are you interested in?

e.g. tutorials, android, ruby, web-development, machine-learning, open-source

Submit	skip this step
--------	--------------------------------

GitHub 사용법(4)

- 회원가입 시 사용한 메일 계정에 접속하여 이메일을 인증한다.

[GitHub] Please verify your email address.



받은편지함 x



GitHub <noreply@github.com>

나에게 ▾



영어 ▾



한국어 ▾

메일 번역

Hi @ [redacted]

Help us secure your GitHub account by verifying your email address ([redacted]). This lets you access all of Gi

[Verify email address](#)

Button not working? Paste the following link into your browser:

[https://github.com/users/\[redacted\]](https://github.com/users/[redacted])

You're receiving this email because you recently created a new GitHub account or added a new email address. If this was

GitHub 사용법(5)

- <https://github.com/>에 다시 접속한다.
- Start a project 버튼을 클릭한다.

Learn Git and GitHub without any code!

Using the Hello World guide, you'll create a repository, start a branch, write comments, and open a pull request.

Read the guide

Start a project

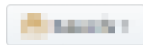
GitHub 사용법(6)

- Repository name을 채운 후 Create repository 버튼을 클릭한다.

Create a new repository

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

Owner



Repository name

FirstProject



Great repository names are short and memorable. Need inspiration? How about **stunning-dollop**.

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

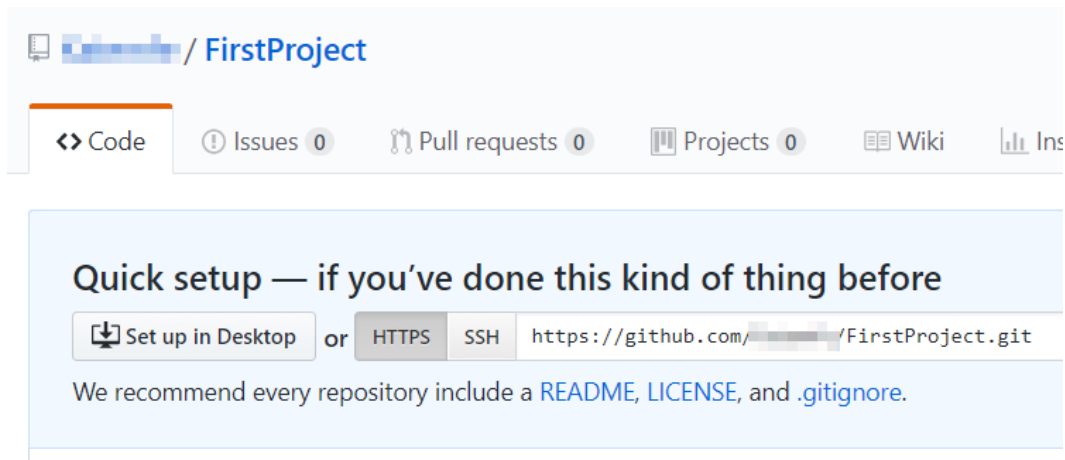
Add a license: None



Create repository

GitHub 사용법(7)

- 프로젝트가 생성된 것을 확인할 수 있다.



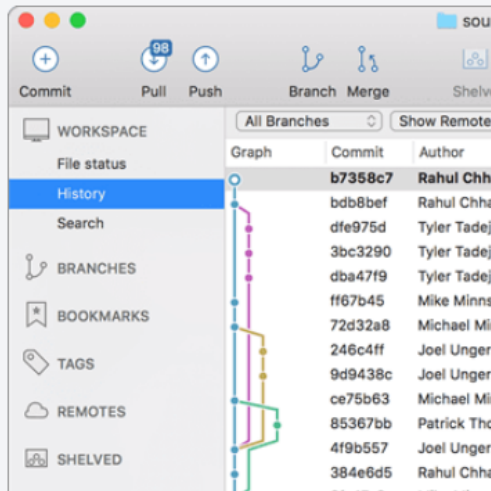
SourceTree 설치법(1)

- <https://www.sourcetreeapp.com/> 에 접속한다.
- Download for Windows를 클릭한다.

**Simplicity and
power in a
beautiful Git GUI**

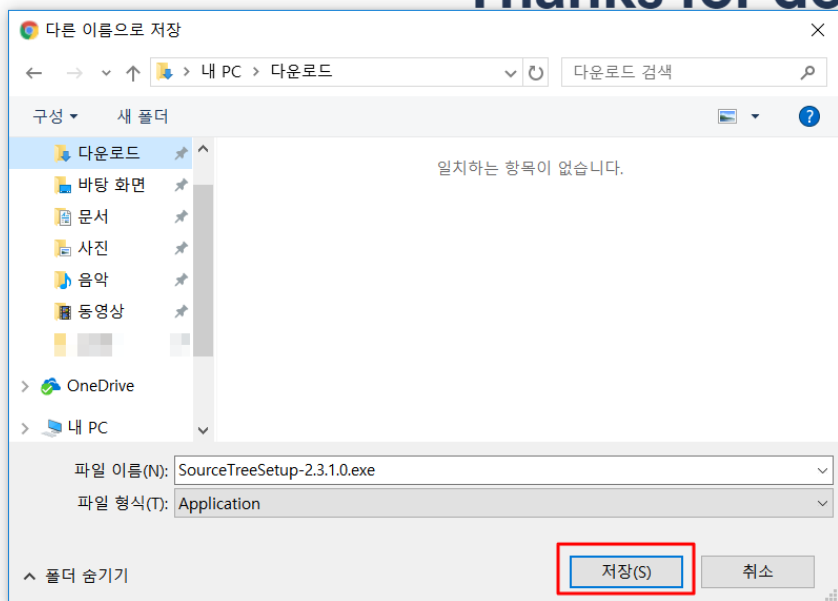
Download for Windows

Also available for Mac OS X



SourceTree 설치법(2)

- 프로그램을 원하는 위치에 저장한다.



Thanks for downloading
SourceTree

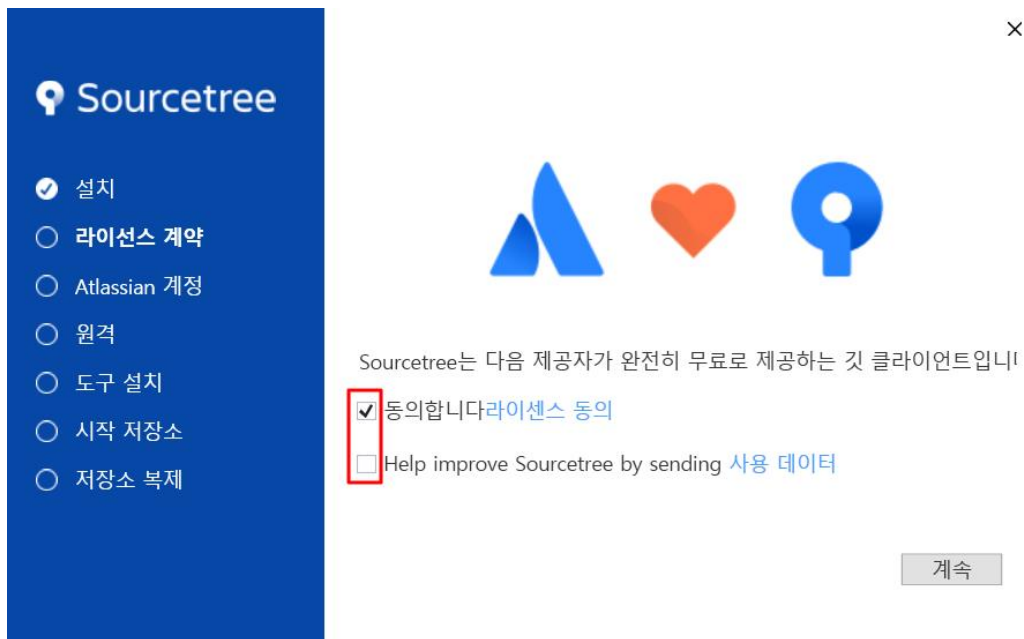
Now integrate with
Bitbucket:

- Unlimited private repositories
- Free for 5 users
- Code, manage and collaborate with teams

[Get started for free](#)

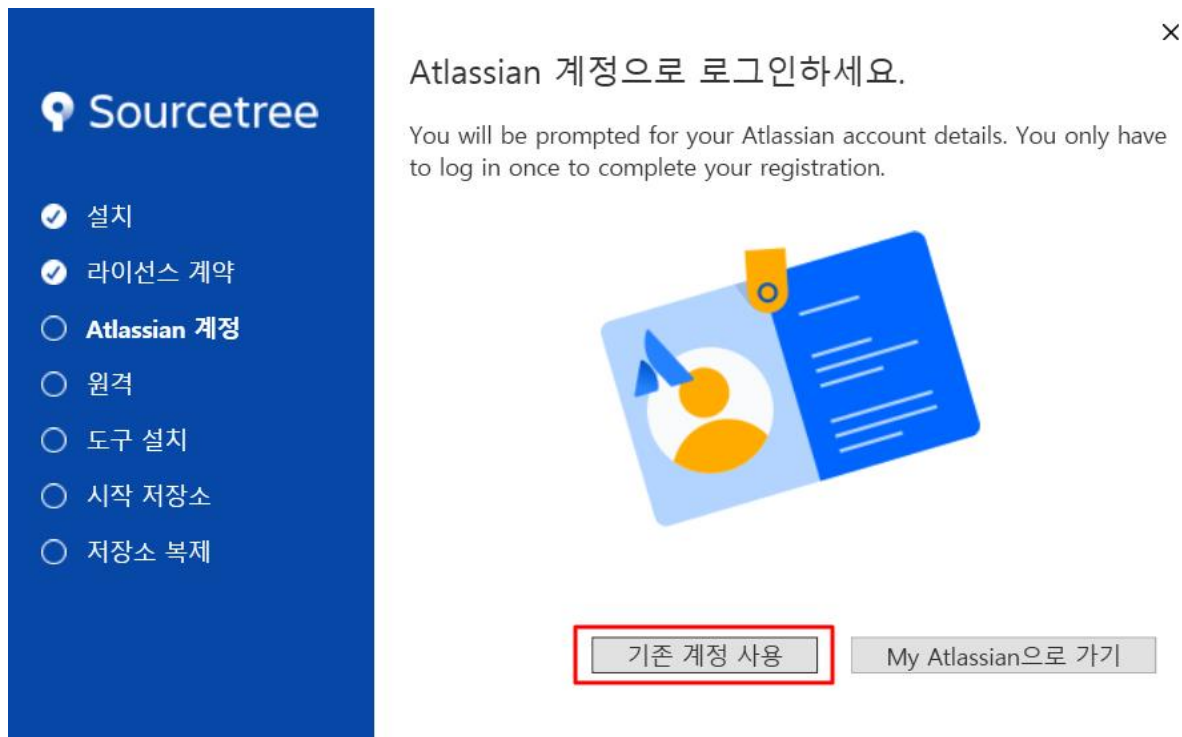
SourceTree 설치법(3)

- SourceTree 프로그램을 실행한다.
- 라이선스 동의 후 계속 버튼을 누른다.



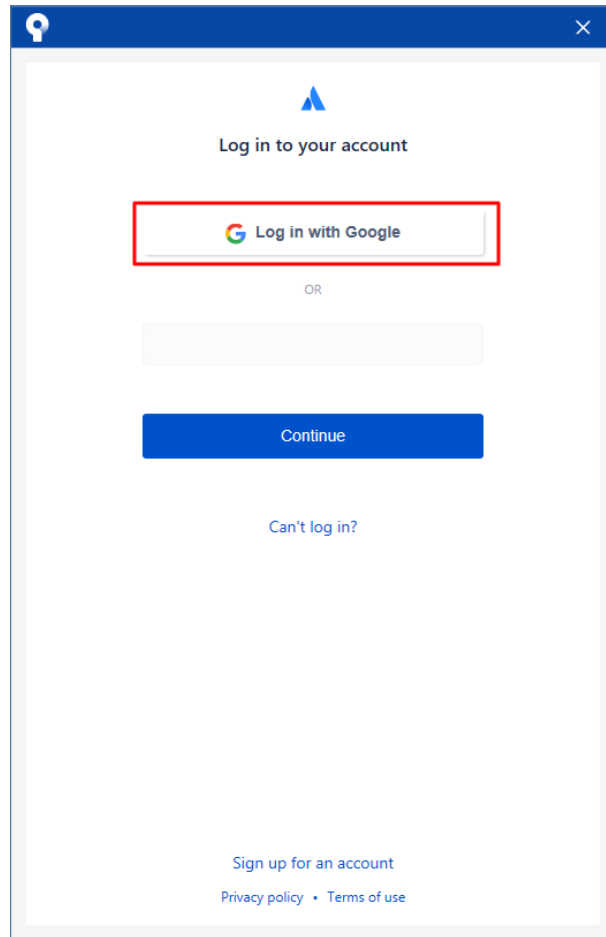
SourceTree 설치법(4)

- 기존 계정이 없어도 '기존 계정 사용' 버튼을 누른다.



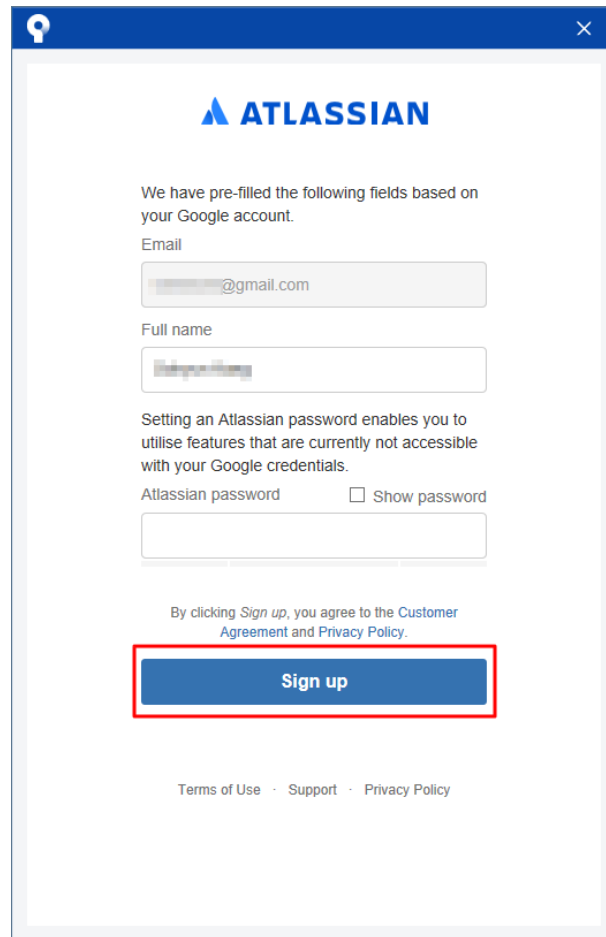
SourceTree 설치법(5)

- Google 계정이 있으면 'Log in with Google'을 누른다.
- 아닌 경우 하단의 'Sign up for an account' 누른다.



SourceTree 설치법(6)

- SourceTree용 비밀번호 입력 후, Sign up을 누른다.



The screenshot shows the Atlassian Sign up page. At the top is the Atlassian logo. Below it, a message states: "We have pre-filled the following fields based on your Google account." The "Email" field is pre-filled with "@gmail.com" and the "Full name" field is pre-filled with a blurred name. Below these fields, a message states: "Setting an Atlassian password enables you to utilise features that are currently not accessible with your Google credentials." The "Atlassian password" field is empty, and there is a checkbox labeled "Show password" which is unchecked. At the bottom of the form, a blue "Sign up" button is highlighted with a red rectangle. Below the button, there are links for "Terms of Use", "Support", and "Privacy Policy".

ATLASSIAN

We have pre-filled the following fields based on your Google account.

Email

@gmail.com

Full name

Setting an Atlassian password enables you to utilise features that are currently not accessible with your Google credentials.

Atlassian password ☐ Show password

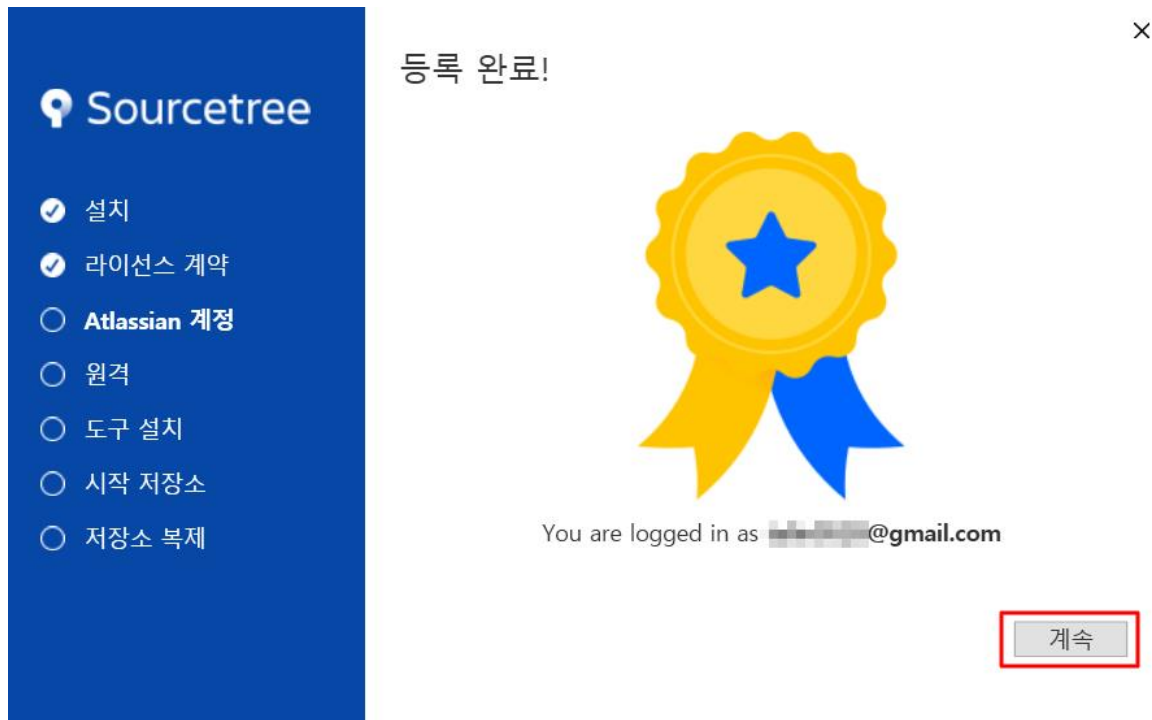
By clicking *Sign up*, you agree to the [Customer Agreement and Privacy Policy](#).

Sign up

[Terms of Use](#) · [Support](#) · [Privacy Policy](#)

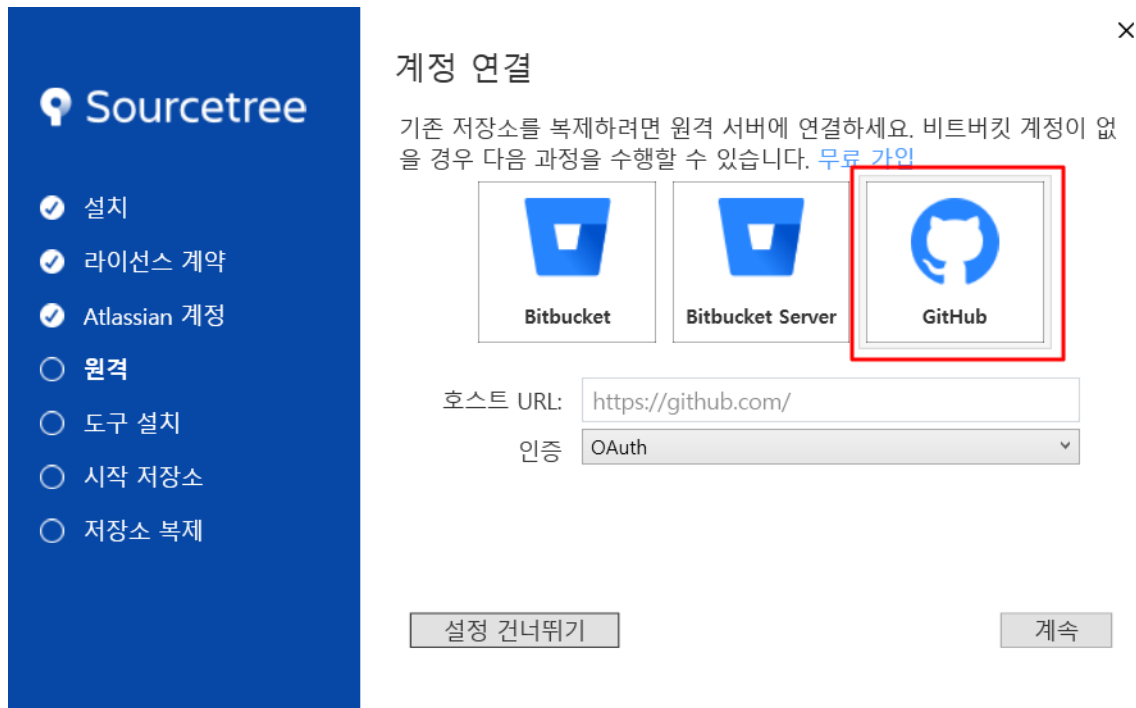
SourceTree 설치법(7)

- 계속 버튼을 누른다.



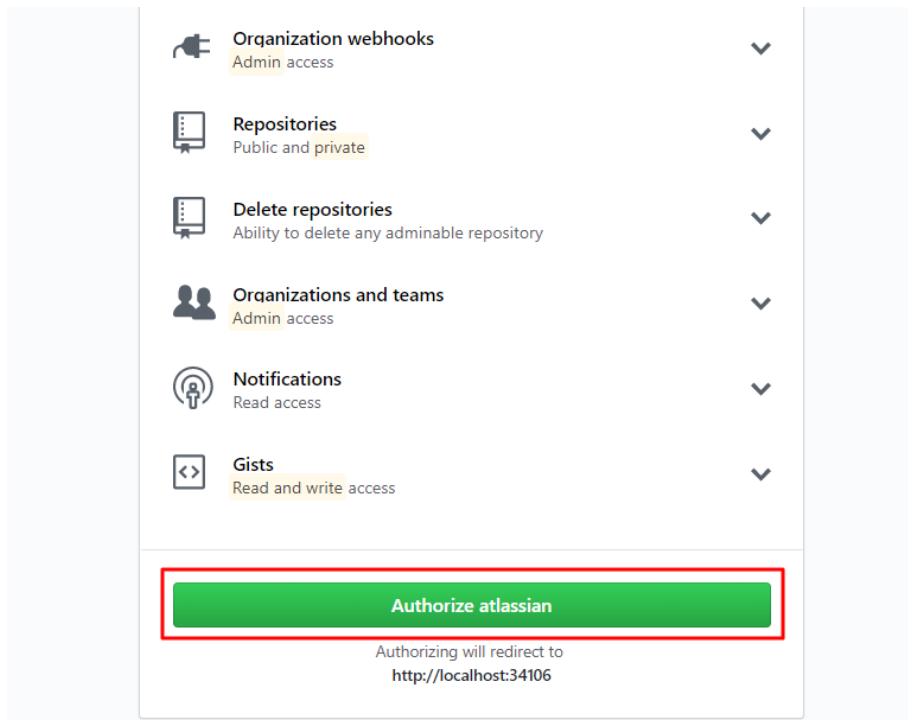
SourceTree 설치법(8)

- 이전에 가입한 GitHub를 누른 후 계속 버튼을 누른다.



SourceTree 설치법(9)

- 팝업 창 하단의 Authorize atlassian을 누른다.



SourceTree 설치법(10)

- 계정 인증 후, 팝업 창을 닫는다.

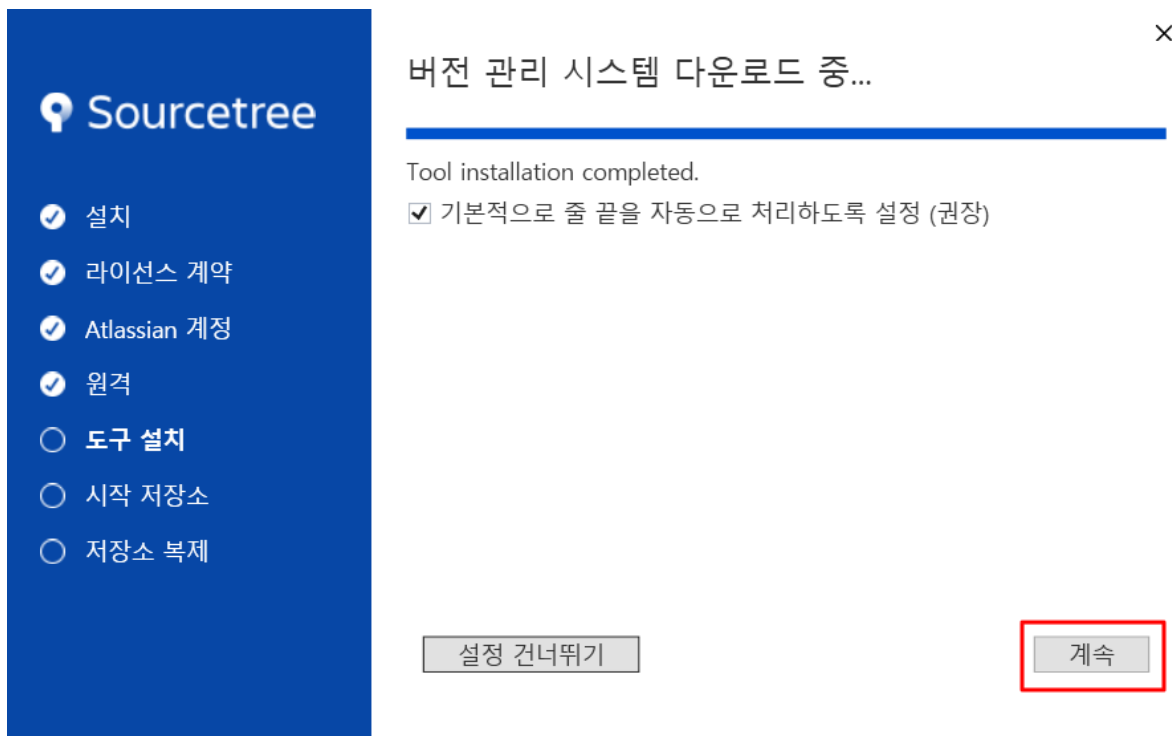
Authentication Successful

SourceTree has been successfully authenticated. You may now close this page.



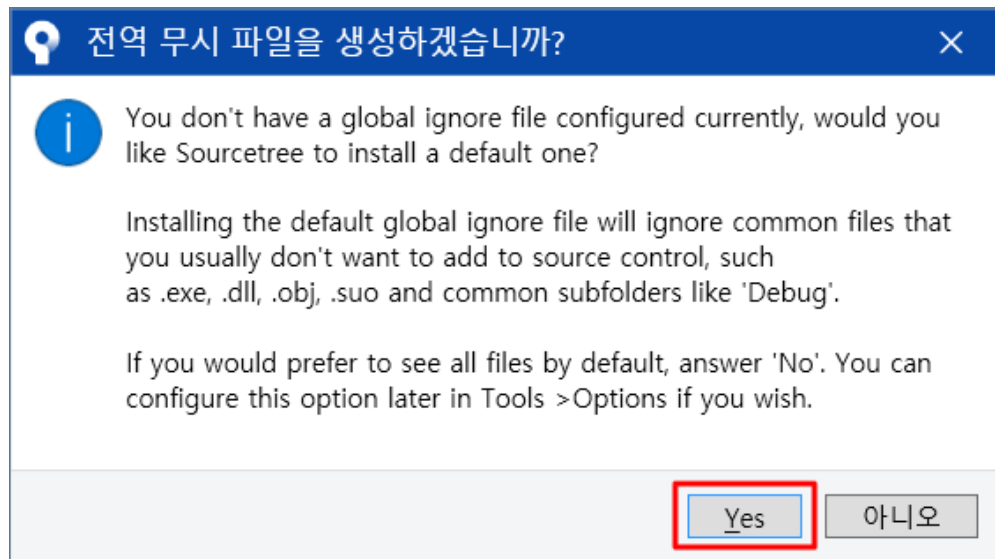
SourceTree 설치법(11)

- '계속' 버튼을 누른다.



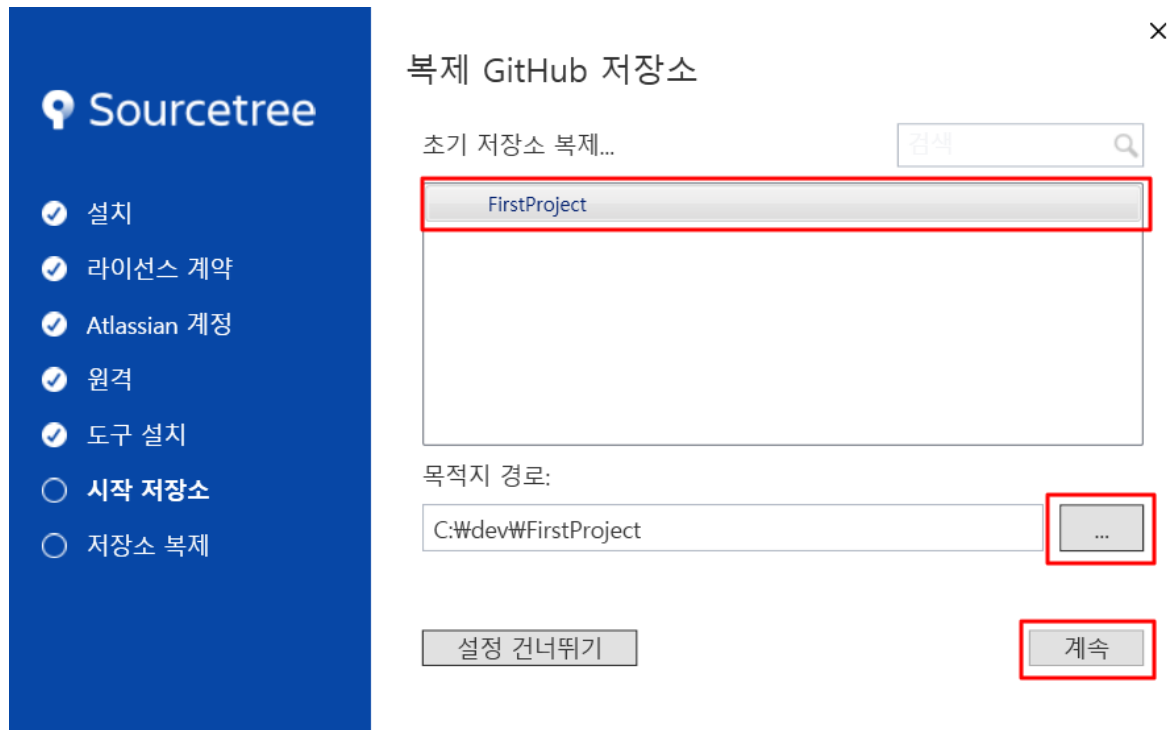
SourceTree 설치법(12)

- 'Yes'를 클릭한다.



SourceTree 설치법(13)

- GitHub에서 생성했던 'FirstProject'를 클릭한 뒤, 로컬 목적지 경로 설정 후 계속을 누른다.



SourceTree 설치법(14)

- SourceTree 프로그램을 실행하면 'FirstProject'가 연결되어 있는 것 확인 가능하다.

