



Programming Fundamentals 1

Produced
by

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Waterford, Ireland

setu.ie



Introduction to Github

Source:

<https://www.linkedin.com/learning/learning-github?u=57077417>

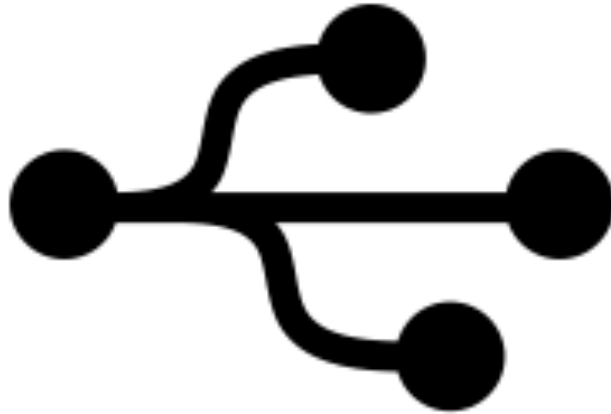




Agenda

- ☐ Version Control
- ☐ Repository tour
- ☐ Vehicle App Example
- ☐ Demonstration...

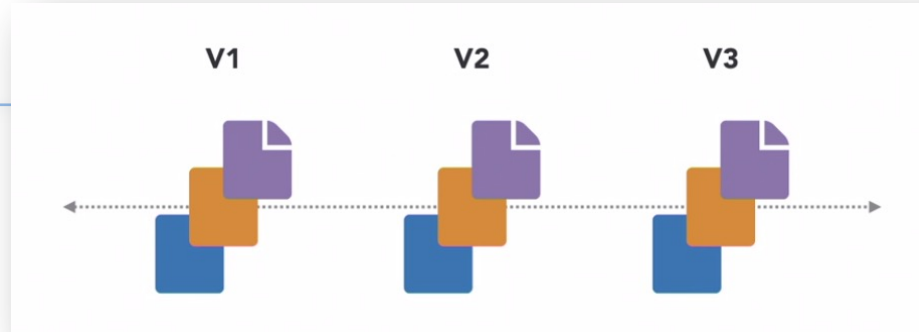
Version Control – What is git?



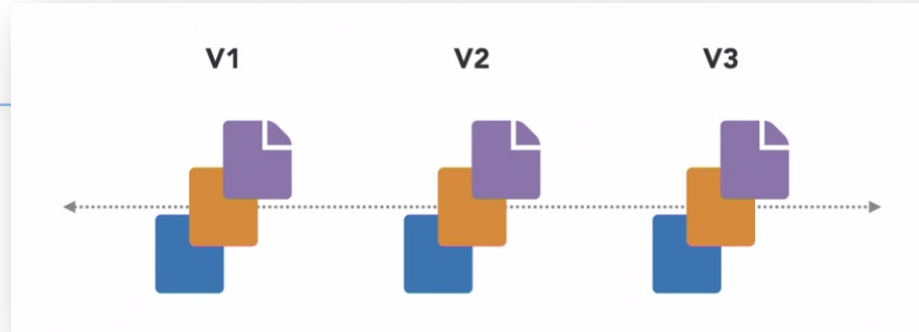


"Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency."

Developed by [Linus Torvalds](#)

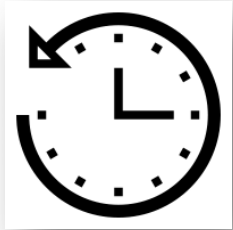


A Version Control System (VCS) is software designed to record **changes** made to a file or set of files over time.

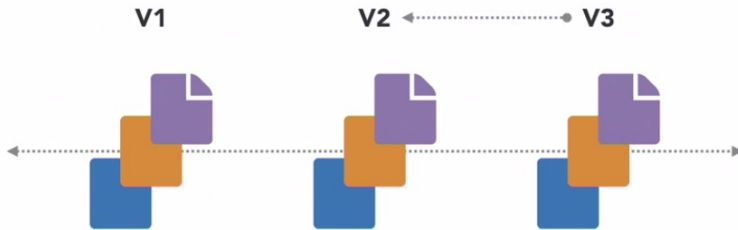


A Version Control System (VCS) is software designed to record **changes** made to a file or set of files over time.

This gives you the ability to revert or recall changes to a file, or set of files after you have made them.



If you want to go back to a version, you can revert one file to a previous version, or a selection of files to their previous versions, or even the entire project back to a specific version in time.





Date:
Author:
Message:



Date:
Author:
Message:

You can see what changes were made between files
e.g.:

- When the change was introduced
 - Who introduced the change
 - What was changed
 - Why was it changed

You can version control any type of file on git, not just source code files:





Basics of git - 1



- Git is a version control system. Git manages all the repo's history, etc.
- When using Git, we have a Git repository (repo) which contains:
 - ❖ Source code and any other files
 - ❖ Files needed to keep the information of the various versions (these are contained in the hidden `.git` subdirectory)
- The user works on the **local** repo.
- Usually (but not necessarily), the user will also use a **remote server** so that
 - ❖ They can backup their work;
 - ❖ They can publish their work;
 - ❖ They can share their work with collaborators. This sharing is the most productive use of Git but as a starting point, not necessary.



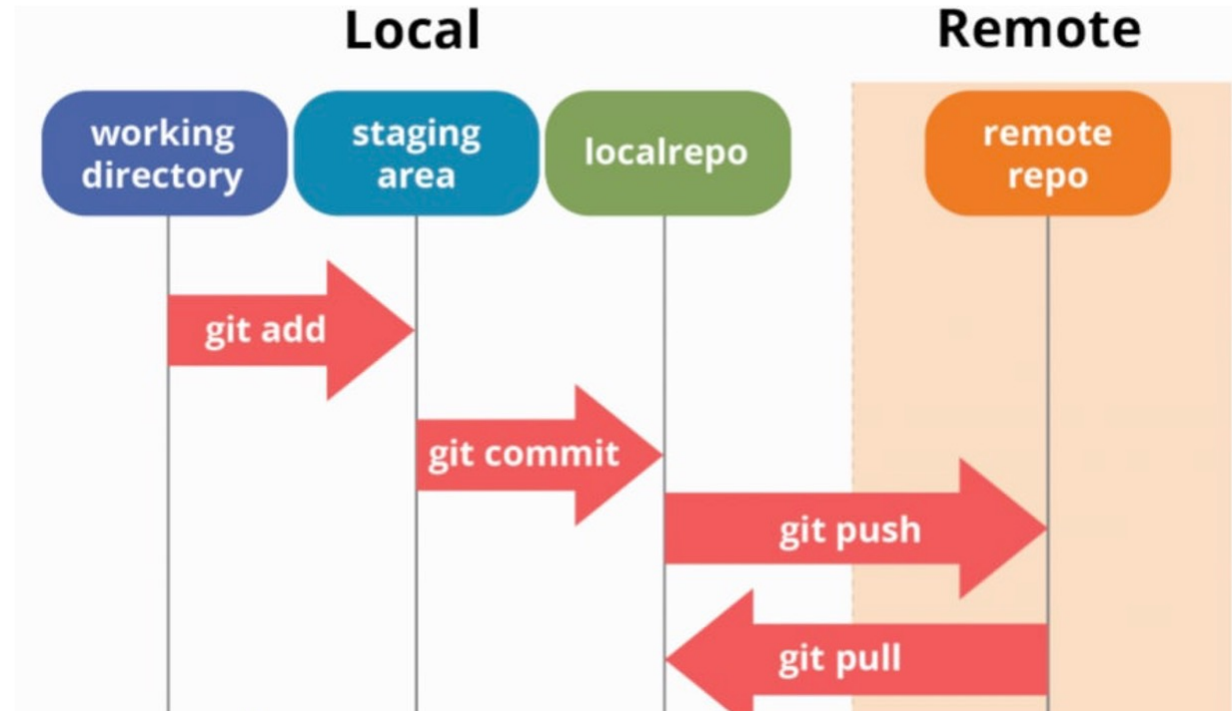
Basics of git - 2



- To see a very good intro on git , see here :

<https://www.freecodecamp.org/news/learn-the-basics-of-git-in-under-10-minutes-da548267cc91/>

Basic
commands





github.com/ddrohan/VehicleApp/tree/master

Programmi... Mobile App... Programmi... ddrohan/VehicleApp... Builds | ddr... Tutors Programmi... crud opera... how to cha...

ddrohan / VehicleApp

Type to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

VehicleApp Public

Pin Watch 0 Fork 0 Star 0

master had recent pushes 13 seconds ago Compare & pull request

master 2 Branches 0 Tags

Go to file Add file Code

This branch is 3 commits ahead of, 1 commit behind main . Contribute

ddrohan Adding Driver Class b3df740 · now 3 Commits

.idea	My First Commit	17 minutes ago
src	Adding Driver Class	now
.gitignore	My First Commit	17 minutes ago
VehicleApp.iml	My First Commit	17 minutes ago

README

Add a README

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

Add a README

About

No description, website, or topics provided.

Activity

0 stars

0 watching

0 forks

Releases

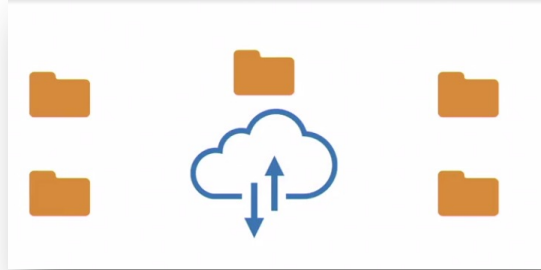
No releases published

[Create a new release](#)

Packages

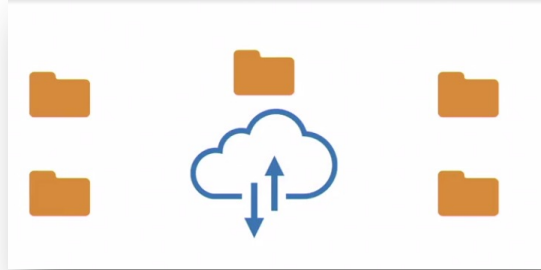
No packages published

[Publish your first package](#)



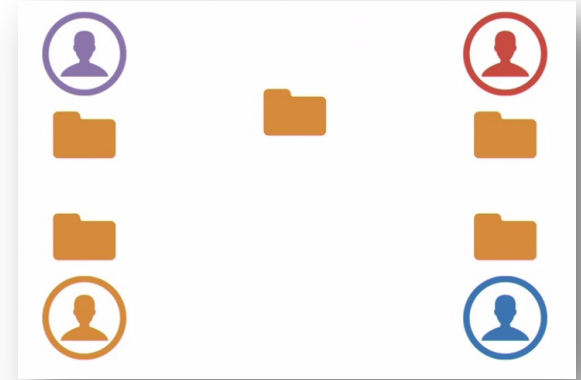
Distributed Version Control
allows for collaboration.

Each client fully mirrors the
project by pulling down the
entire repository.



Distributed Version Control
allows for collaboration.

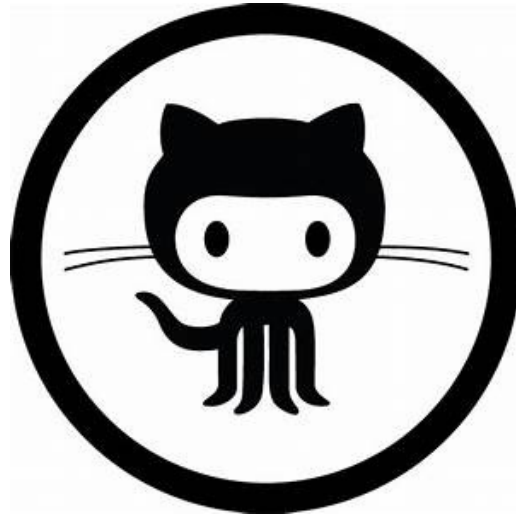
Each client fully mirrors the
project by pulling down the
entire repository.



Everyone has a local
copy of the entire
project history → full
back up.



A tour of a repository



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

Hosting services for Git repositories



Bit Bucket



GitHub



GitLab

<https://medium.com/swlh/what-do-i-need-to-know-about-git-5017bde0b572>



atom/github: Git and GitHub inte x +

github.com/atom/github

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

atom / github

< Code Issues 401 Pull requests 33 Actions Projects 2 Wiki Security Insights

master 95 branches 166 tags Go to file Add file Code

smashwilson Merge pull request #2534 from DeeDeeG/fix-redownload-electron-... 5a8faf5 2 days ago 11,458 commits

.dependabot	whitelist a bunch of dependencies (mostly only used in tests) to allo...	2 years ago
.github/workflows	Flip back to nightly	3 days ago
actions	Bump node-fetch from 2.6.0 to 2.6.1 in /actions/schema-up	21 days ago
bin	That variable was renamed	12 months ago
docs	Merge remote-tracking branch 'origin/master' into aw/fr/blank-slate	15 months ago
graphql	GraphQL schema	7 days ago
img	Inexpert but hopefully passable unlock icon	8 months ago
keymaps	Standardize 'github:selectbox-' events	12 months ago
lib	Scroll to first conflict when opening editor	5 days ago
menus	move the the Jump to file from the generic FilePatchView menu to the ...	11 months ago
script	redownload-electron-bins.js: Correct path	2 days ago
styles	CSS tweaks	6 months ago
test	Oh yeah it's assert	5 days ago
.babelrc.js	Electron version from env when transpiling in a non-Electron process	2 years ago
.eslintignore	Tell eslint to ignore snapshotting output	2 years ago

About

Git and GitHub integration for Atom

github.atom.io

atom github git atom-package atom-editor

Readme

MIT License

Releases

166 tags

Packages

No packages published

Contributors 62

Code View

All files and folders in project.

Can edit file contents via GitHub UI.



atom/github: Git and GitHub inte x +

github.com/atom/github

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README.md	Link the README to GitHub Actions	6 months ago
assert-messages-plugin.js	Update Babel package imports to use "@babel/..." scope	2 years ago
codecov.yml	Disable the "changes" status from CodeCov	2 years ago
jsconfig.json	🍷🍷🍷	3 years ago
package-lock.json	📦 Bump electron-devtools-installer from 2.2.4 to 3.1.1	15 days ago
package.json	📦 Bump electron-devtools-installer from 2.2.4 to 3.1.1	15 days ago

README.md

Atom GitHub Package

Build	Code Coverage
🔄 ci passing	📊 codecov 93%

The Atom GitHub package provides Git and GitHub integration for Atom. Check out github.atom.io for more information.



GitHub for Atom

Code View

README.md
file is
displayed
after files
and folders



Issues · atom/github

github.com/atom/github/issues

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atom / github

Watch 55 Star 826 Fork 314

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Want to contribute to atom/github?

If you have a bug or an idea, read the [contributing guidelines](#) before opening an issue.
If you're ready to tackle some open issues, [we've collected some good first issues for you](#).

Filters is:issue is:open

Labels 63 Milestones 3 New issue

401 Open 861 Closed

Author Label Projects Milestones Assignee Sort

- Links don't open in GNOME / Linux
#2529 opened 6 days ago by atd 1 of 1
- Suggestion: Pressing the up arrow key in an empty commit message box shows the previous commit message
#2501 opened on Aug 16 by sbrl
- Cannot clone GitHub repository due to corporate proxy
#2500 opened on Aug 14 by MyResearchExchange 6 of 6
- UI Interact Logic: User should be able to login when working on local repositories.
#2497 opened on Aug 7 by PaperFlu 1 of 1
- Git commit failure (Mojave): client is not Apple-signed
#2485 opened on Jul 11 by cstarkjp
- Change github user on atom
#2481 opened on Jun 26 by willmendil

Issues View

Used to track bugs, feature requests, etc.

Can be assigned to specific members/teams.

No code changes are attached.



Pull requests · atom/github

github.com/atom/github/pulls

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atom / github

Watch 55 Star 826 Fork 314

<> Code Issues 401 **Pull requests 33** Actions Projects 2 Wiki Security Insights

First time contributing to atom/github?

If you know how to fix an [issue](#), consider opening a pull request for it.
You can read this repository's [contributing guidelines](#) or [GitHub Help](#) to learn how to open a good pull request.

Dismiss

Filters is:pr is:open

Labels 63 Milestones 3 New pull request

33 Open ✓ 1,212 Closed

Author Label Projects Milestones Reviews Assignee Sort

- Bump enzyme-adapter-react-16 from 1.7.1 to 1.15.5** dependencies 1
#2525 opened 7 days ago by dependabot-preview bot
- Bump babel-plugin-istanbul from 5.2.0 to 6.0.0** dependencies
#2521 opened 14 days ago by dependabot-preview bot
- Bump relay-runtime from 5.0.0 to 10.0.1** dependencies
#2493 opened on Jul 23 by dependabot-preview bot
- Bump react-relay from 5.0.0 to 10.0.1** dependencies 1
#2492 opened on Jul 23 by dependabot-preview bot
- Bump fs-extra from 4.0.3 to 9.0.1** dependencies 1
#2474 opened on Jun 4 by dependabot-preview bot
- Bump keytar from 4.13.0 to 6.0.1** dependencies 1
#2468 opened on May 27 by dependabot-preview bot

Pull Requests

Represents a change, such as adding, deleting, updating files that the author of the repo wants to make.

It includes code changes.



Actions · atom/github

github.com/atom/github/actions

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atom / github

Watch 55 Star 826 Fork 314

Code Issues 401 Pull requests 33 **Actions** Projects 2 Wiki Security Insights

Workflows

All workflows

Filter workflows

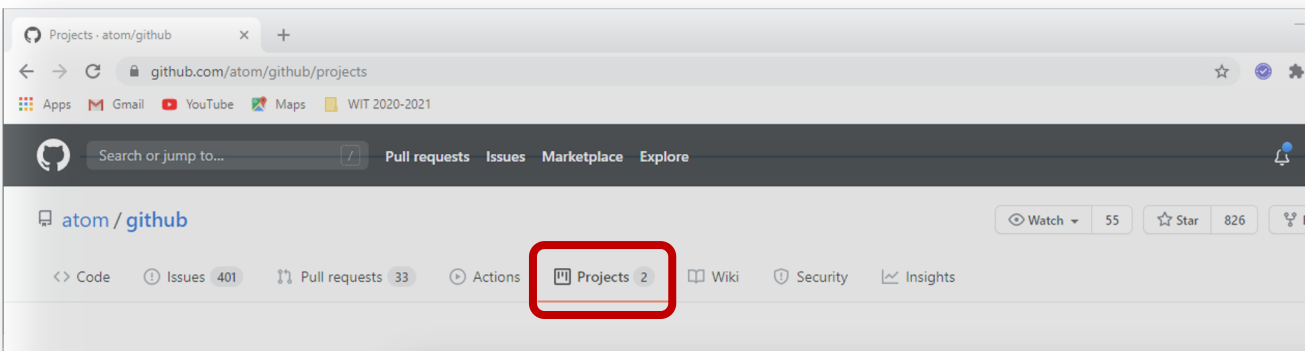
1,095 results

	Event	Status	Branch	Actor
✓ Update README.md ci #135: Pull request #2536 opened by ankit4-com	ankit4-com:master	10 hours ago 14m 55s	...	
✓ Improved docs ci #134: Pull request #2535 opened by XSarthakJain	XSarthakJain:master	16 hours ago 16m 6s	...	
✓ Merge pull request #2534 from DeeDeeG/fix-redownlo... ci #133: Commit 5a8fa5 pushed by smashwilson	master	2 days ago 12m 8s	...	
✓ script/redownload-electron-bins.js: Fix finding the Ato... ci #132: Pull request #2534 opened by DeeDeeG	DeeDeeG:fix-redownload-elec...	2 days ago 12m 17s	...	
✗ Branch selector power-up ci #131: Pull request #2432 synchronize by smashwilson	branch-selector-powerup	2 days ago 14m 27s	...	
✓ Merge pull request #2533 from atom/ci-on-nightly Flip... ci #130: Commit ee1502b pushed by smashwilson	master	3 days ago 14m 56s	...	
✓ Flip CI back to nightly ci #129: Pull request #2533 opened by smashwilson	ci-on-nightly	3 days ago 58m 17s	...	

Actions

Allows you to automate your workflows with CI/CD. You can build, test and deploy your code from GitHub.

<https://github.com/features/actions>



Projects

Allows you to visualise your work with Kanban-style boards.

No code changes here!



Home · atom/github Wiki

github.com/atom/github/wiki

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Code Issues 401 Pull requests 33 Actions Projects 2 Wiki Security Insights

Home

Michelle Tilley edited this page on Jun 7, 2017 · 3 revisions

Roadmaps

Short Term Roadmap

Monthly Planning

- June 2017

Pages 3

- Home
- Planning
 - June 2017
- Other Docs
 - Personas

Clone this wiki locally

<https://github.com/atom/g>

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Wiki

Documentation
you can add to
your project.



Security

You can give instructions on how to responsibly report a security vulnerability in your project. You can also view any security advisories for your repo.

The screenshot shows the GitHub interface for the 'atom/github' repository. The 'Security' tab is highlighted with a red box in the navigation bar. The 'Security overview' section contains two main items: 'Security policy' with a 'Suggest a security policy' button, and 'Security advisories' with a 'View security advisories' link. The left sidebar shows 'Overview', 'Security policy', and 'Security advisories' (with a count of 0). The bottom footer contains copyright information and various links like Terms, Privacy, Security, Status, Help, Contact GitHub, Pricing, API, Training, Blog, and About.

Security Overview · atom/github

github.com/atom/github/security

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

atom / github

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<> Code Issues 401 Pull requests 33 Actions Projects 2 Wiki **Security** Insights

Overview

Security policy

Security advisories 0

Security overview

- Security policy**
Suggest how users should report security vulnerabilities for this repository
[Suggest a security policy](#)
- Security advisories**
View security advisories for this repository
[View security advisories](#)

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Pulse · atom/github

github.com/atom/github/pulse

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

atom / github

Watch 55 Star 826 Fork 314

Code Issues 401 Pull requests 33 Actions Projects 2 Wiki Security **Insights**

Pulse

Contributors

Community

Commits

Code frequency

Dependency graph

Network

Forks

September 24, 2020 – October 1, 2020 Period: 1 week

Overview

5 Active Pull Requests 5 Active Issues

5 Merged Pull Requests	0 Open Pull Requests	4 Closed Issues	1 New Issue
------------------------	----------------------	-----------------	-------------

Excluding merges, 3 authors have pushed 12 commits to master and 21 commits to all branches. On master, 8 files have changed and there have been 306 additions and 20 deletions.

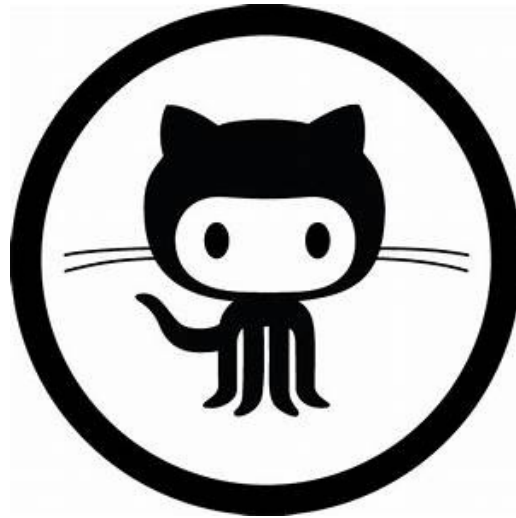
5 Pull requests merged by 3 people

- script/redownload-electron-bins.js: Fix finding the Atom repo's package.json #2534 merged 2 days ago
- Flip CI back to nightly #2533 merged 3 days ago
- Scroll to first conflict when opening editor #2532 merged 5 days ago

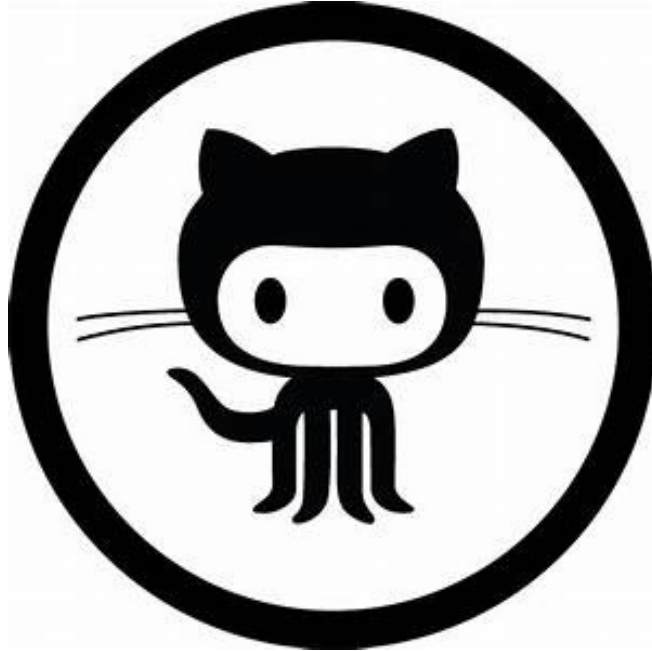
Insights

High level overview of the health / pulse of your repo.

Vehicle App Example



Step 1 – Create your Repository





github.com/ddrohan

Programmi... Mobile App... Programmi... ddrohan (Dave Droh... Builds | ddr... Tutors Programmi... Crud opera... how to cha...

ddrohan

Overview Repositories 45 Projects Packages Stars 8

 Dave Drohan (SETU)
ddrohan

Edit profile

83 followers · 3 following

South East Technological University
Waterford, Ireland
david.drohan@setu.ie
ddrohan.netlify.app
@daithid73

Achievements

Popular repositories

Customize your pins

ddrohan.github.io Public
Home Page
Java 12 1

android-101-labs Public
Android 101 Labs
1 2

wit-wad-2-2019 Public
Repo for WIT Web app Dev 2 2019
HTML 1

VehicleRepository Public
This is the Vehicle Application Repository
Java 1 1

nuist-prog-fund-1-2025 Public
HTML 1

nuist-mobile-app-dev-1-2025 Public
HTML 1 1

44 contributions in the last year

Contribution settings

2025

2024

2023

2022

2021

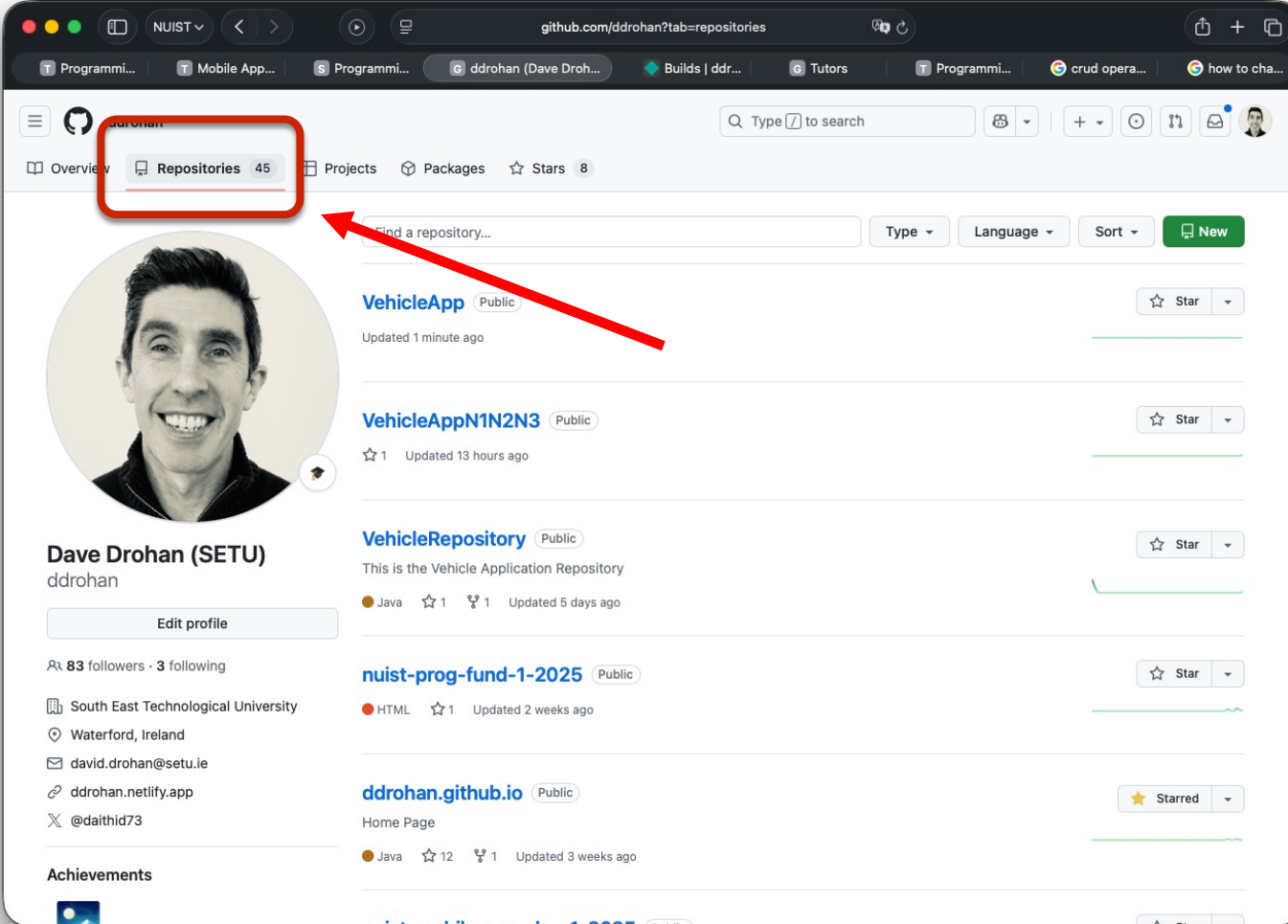
2020

2019

Contribution activity

October 2025

Login to github.com



Select
Repositories
tab



github.com/ddrohan?tab=repositories

Programmi... Mobile App... Programmi... ddrohan (Dave Droh... Builds | ddr... Tutors Programmi... crud opera... how to cha...

ddrohan

Overview Repositories 45 Projects Packages Stars 8

Find a repository... Type Language Source **New**

VehicleApp Public
Updated 1 minute ago

VehicleAppN1N2N3 Public
☆ 1 Updated 13 hours ago

VehicleRepository Public
This is the Vehicle Application Repository
Java ☆ 1 Updated 5 days ago

nuist-prog-fund-1-2025 Public
HTML ☆ 1 Updated 2 weeks ago

ddrohan.github.io Public
Home Page
Java ☆ 12 Updated 3 weeks ago

Dave Drohan (SETU)
ddrohan
Edit profile

83 followers · 3 following

South East Technological University
Waterford, Ireland
david.drohan@setu.ie
ddrohan.netlify.app
@daithid73

Achievements

Create
'New'
Repository



github.com/new

Programmi... Mobile App... Programmi... New repository Builds | ddr... Tutors Programmi... crud opera... how to cha...

New repository

Search Type to search

Create a new repository

Repositories contain a project's files and version history. Have a project elsewhere? [Import a repository](#).
Required fields are marked with an asterisk (*).

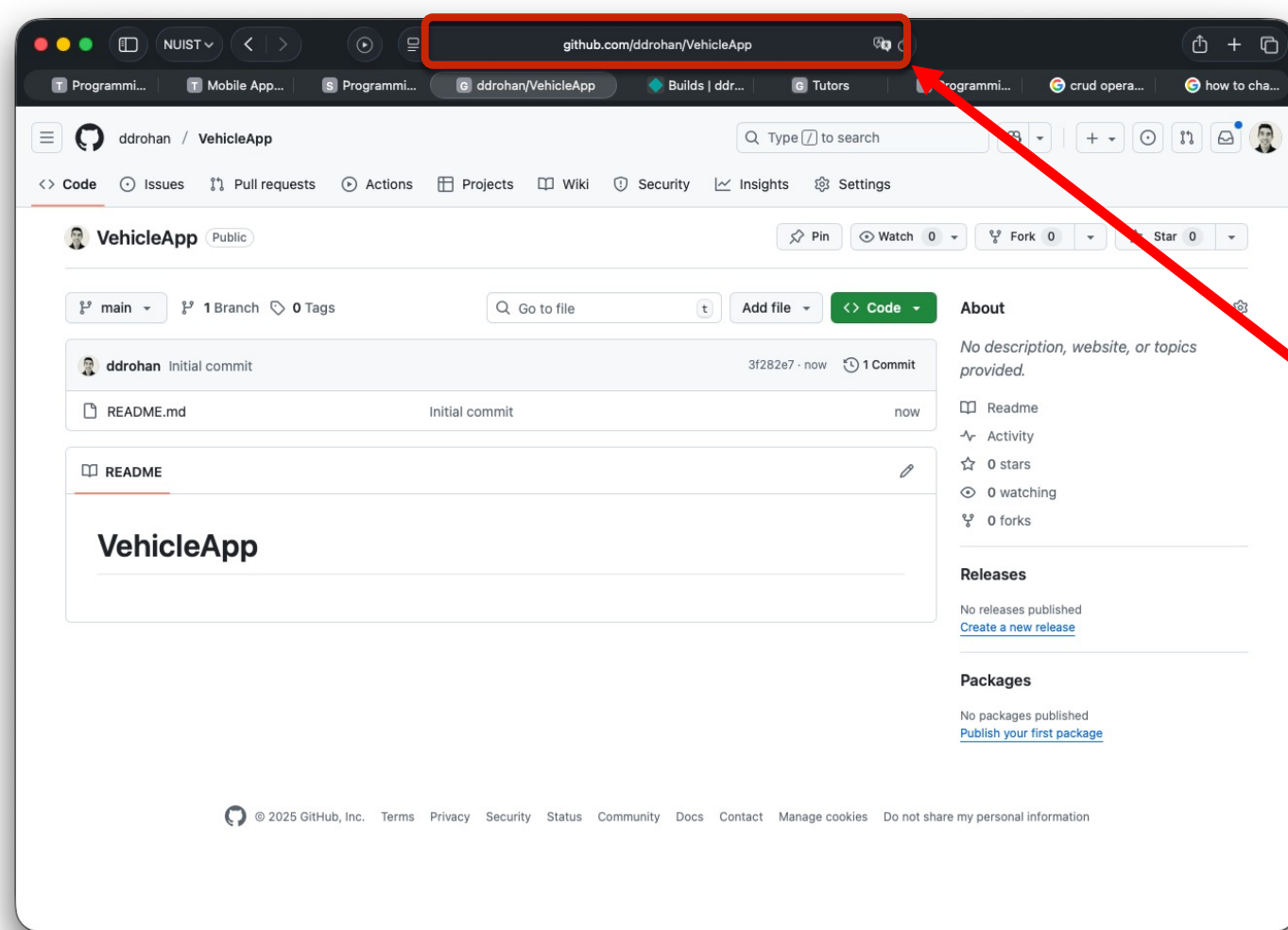
- General**
 - Owner *
ddrohan /
 - Repository name ***
VehicleApp
✓ VehicleApp is available.
 - Great repository name: ...
 - Description
0 / 350 characters
- Configuration**
 - Choose visibility ***
Choose who can see and commit to this repository
Public
 - Add README**
READMEs can be used as longer descriptions. [About READMEs](#)
On ☒
 - Add .gitignore**
.gitignore tells git which files not to track. [About ignoring files](#)
No .gitignore
 - Add license**
Licenses explain how others can use your code. [About licenses](#)
No license

Create repository

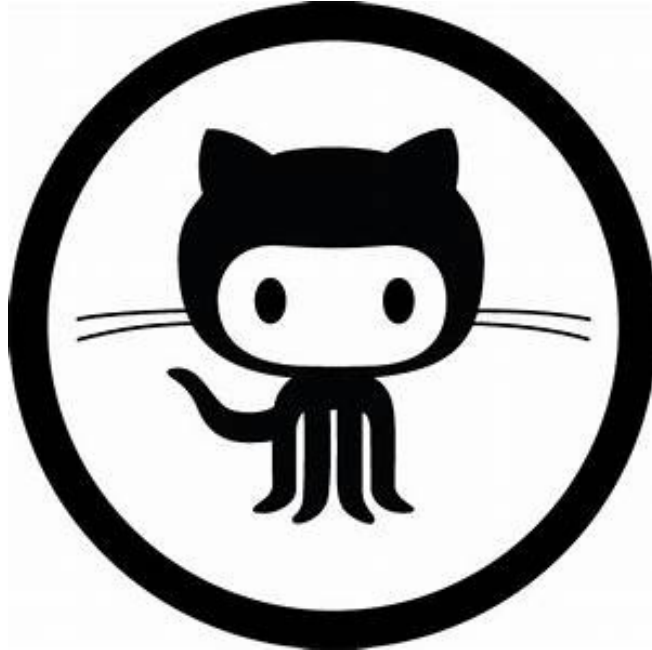
Name your
repository
and add a
README
then Create

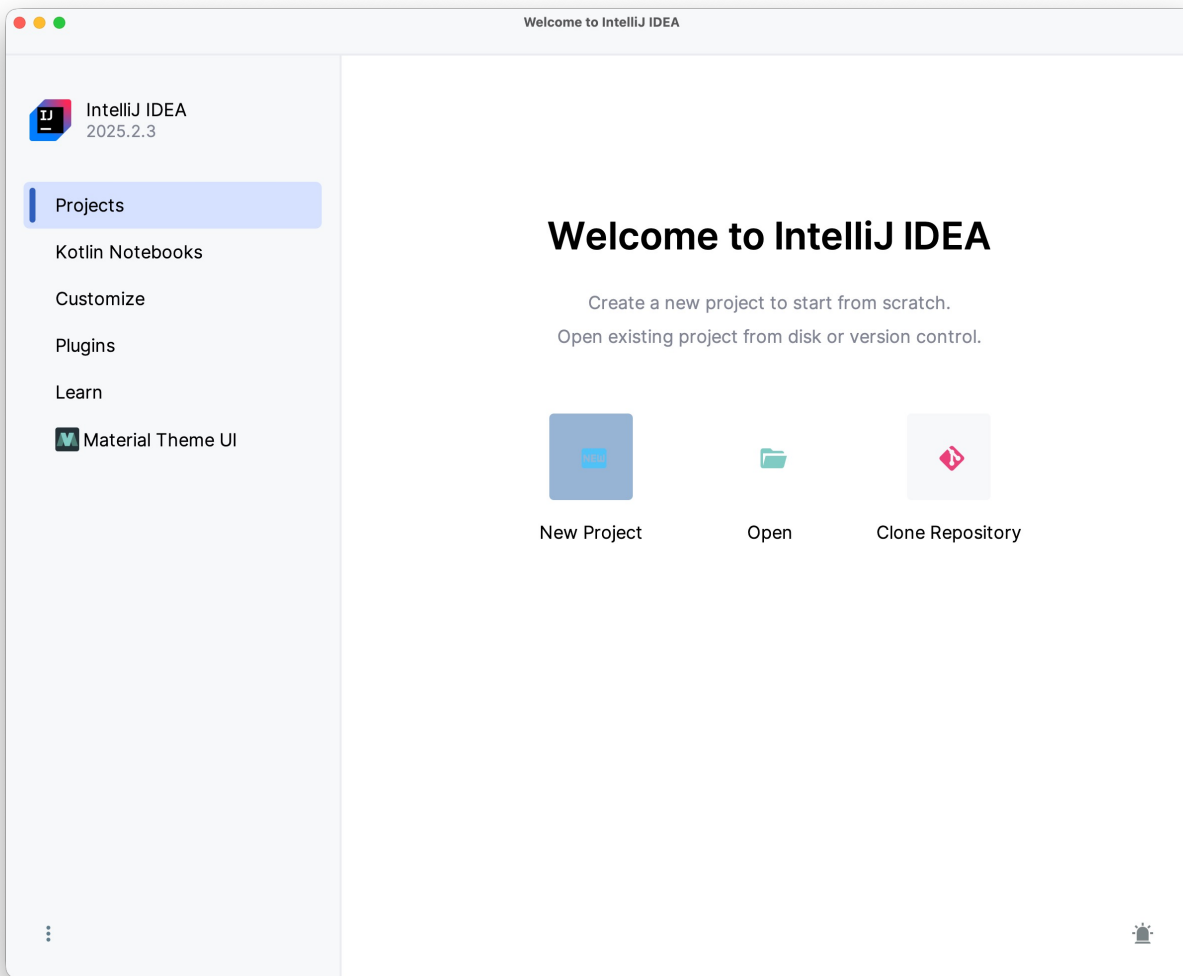


Copy this
link as we
will use it
later



Step 2 – Configure IntelliJ with Github



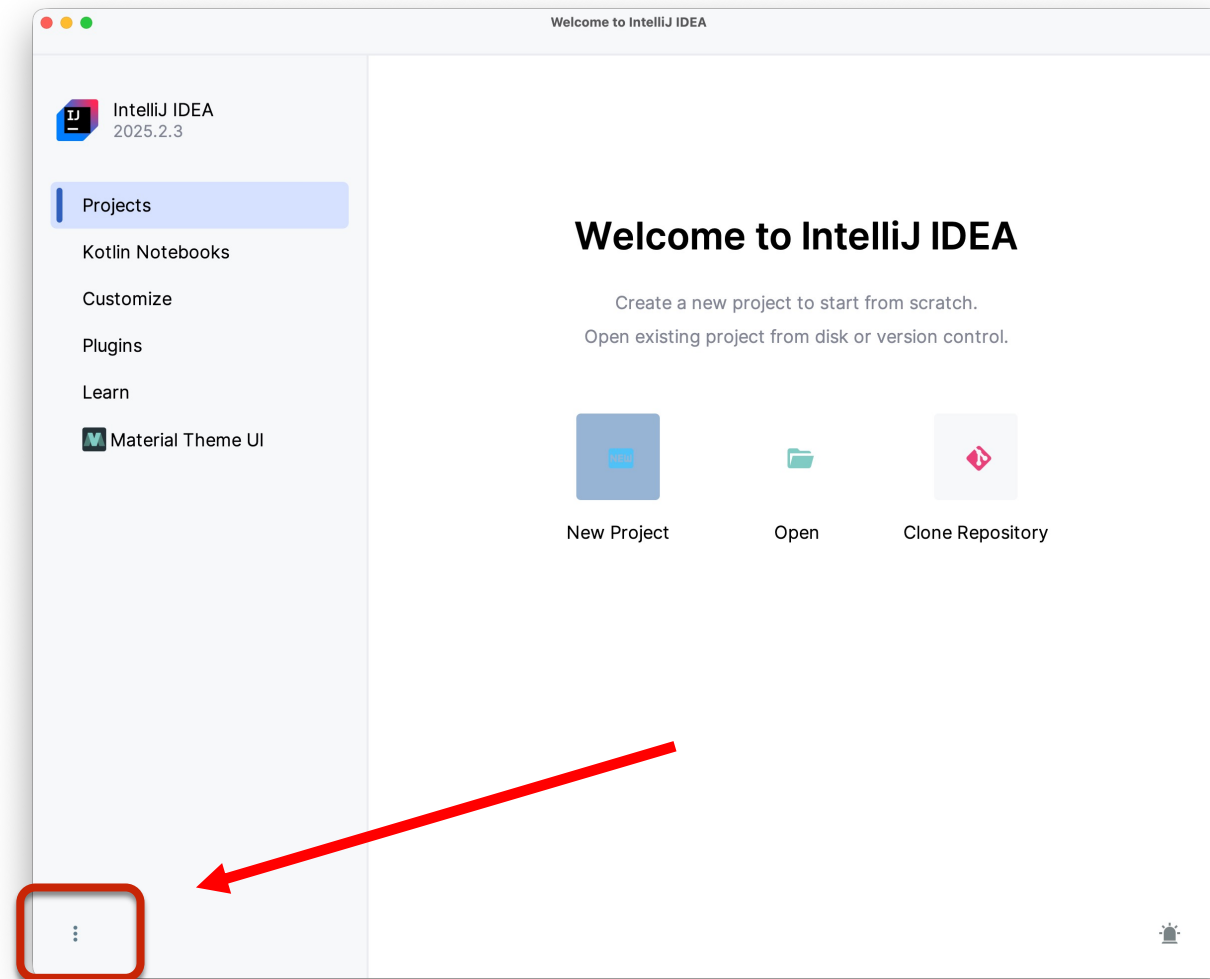


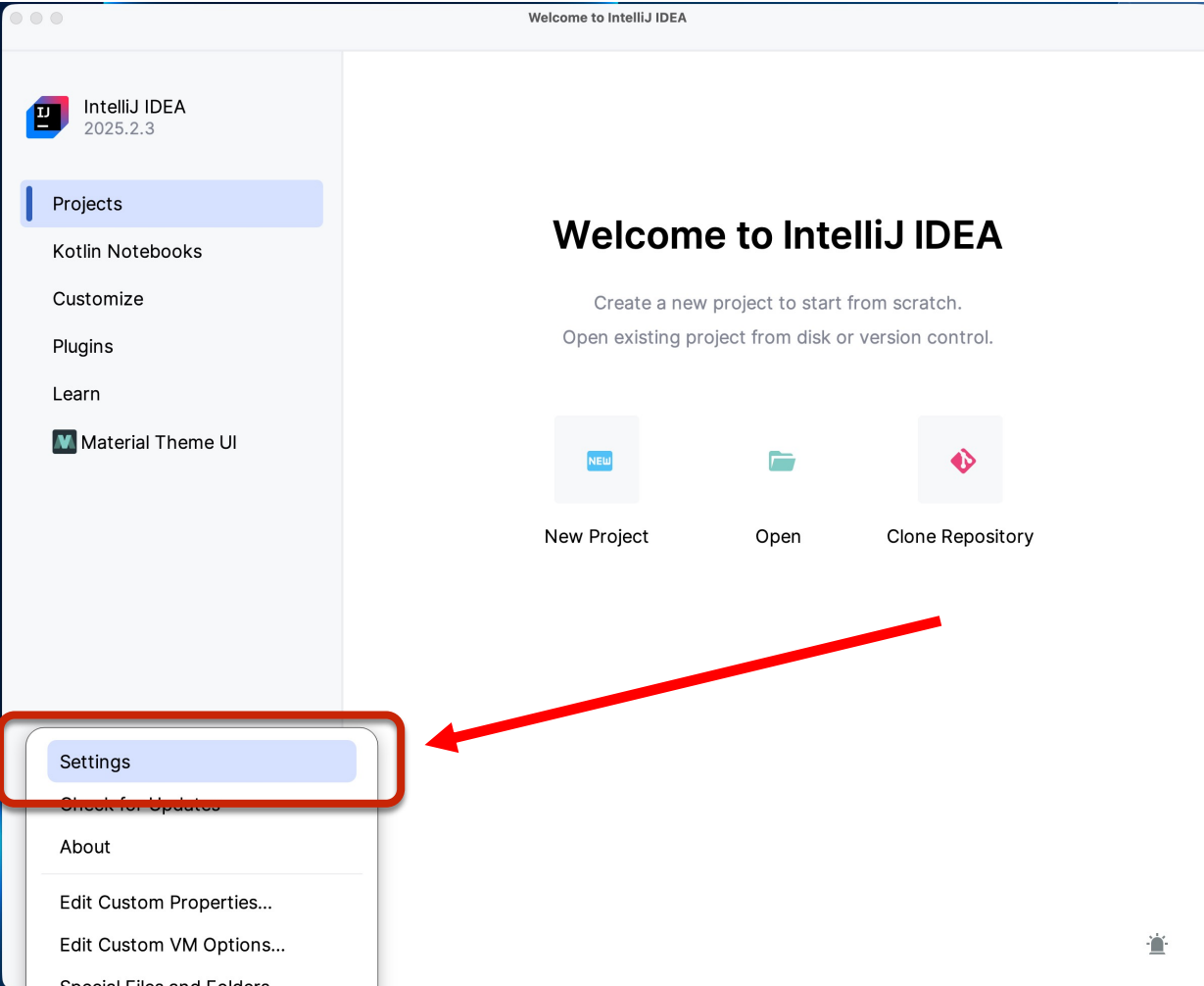
Launch IntelliJ

If a project is
open select
File->Close
Project

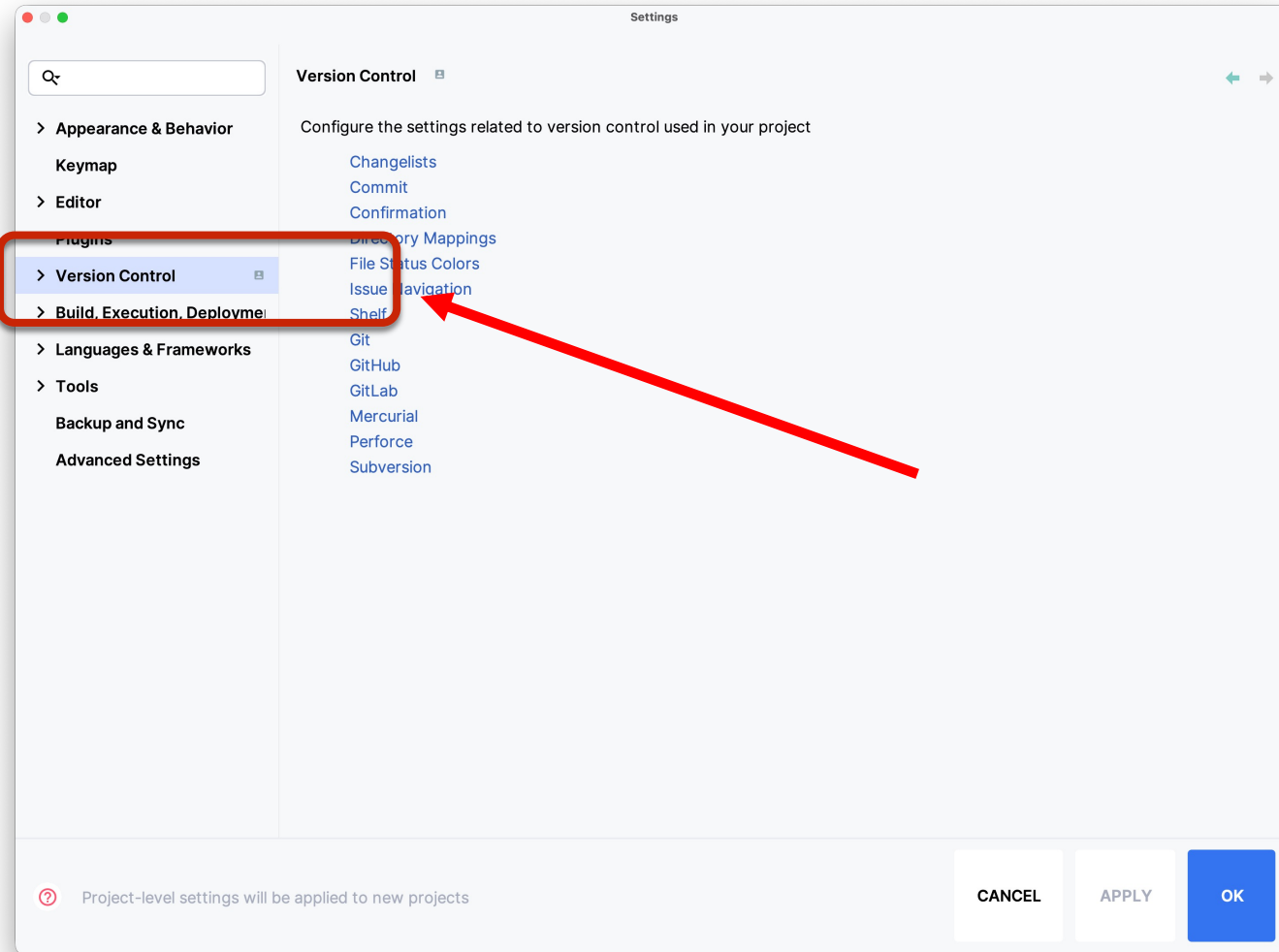


Select the Settings Option

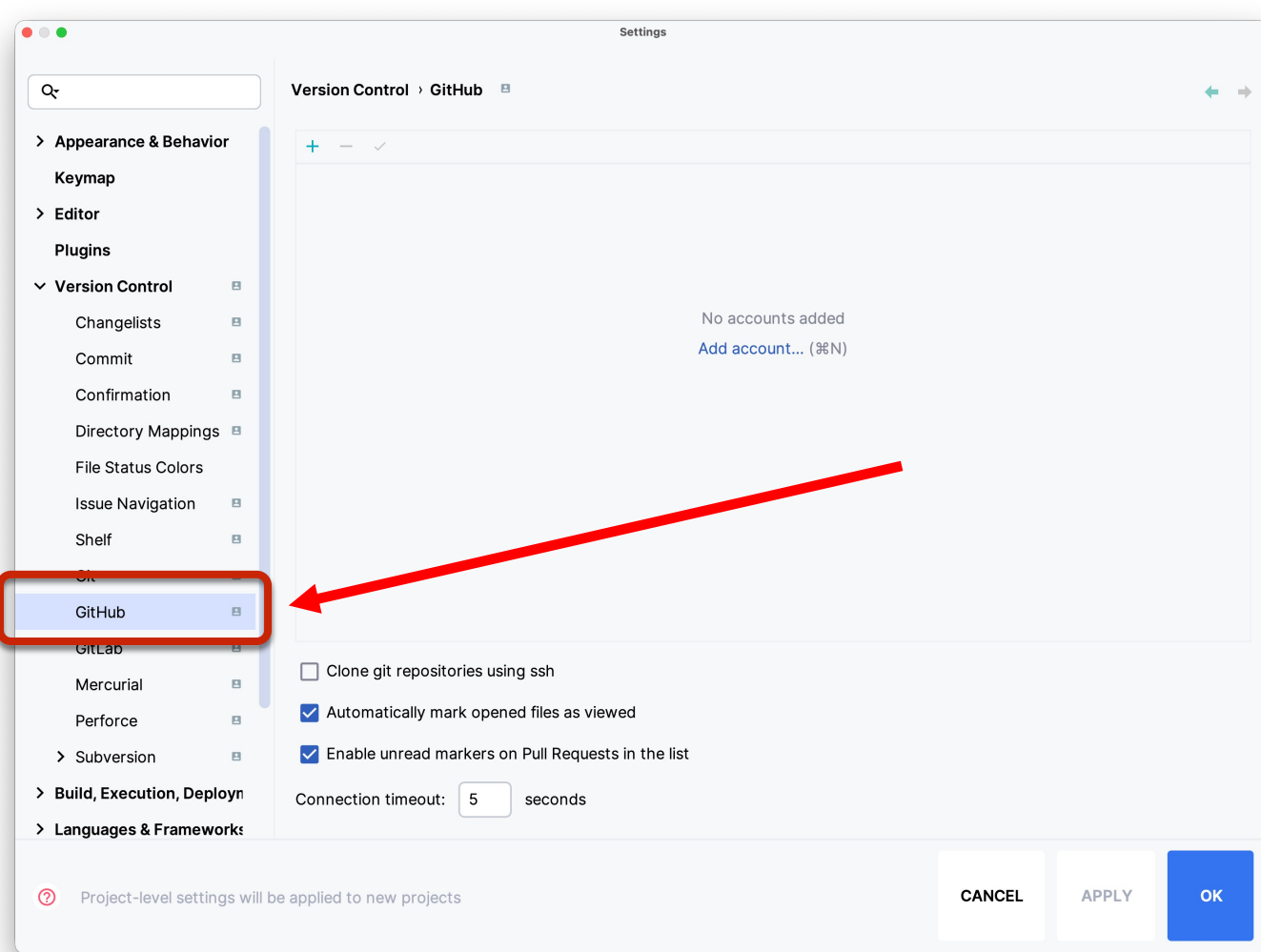




Choose Settings



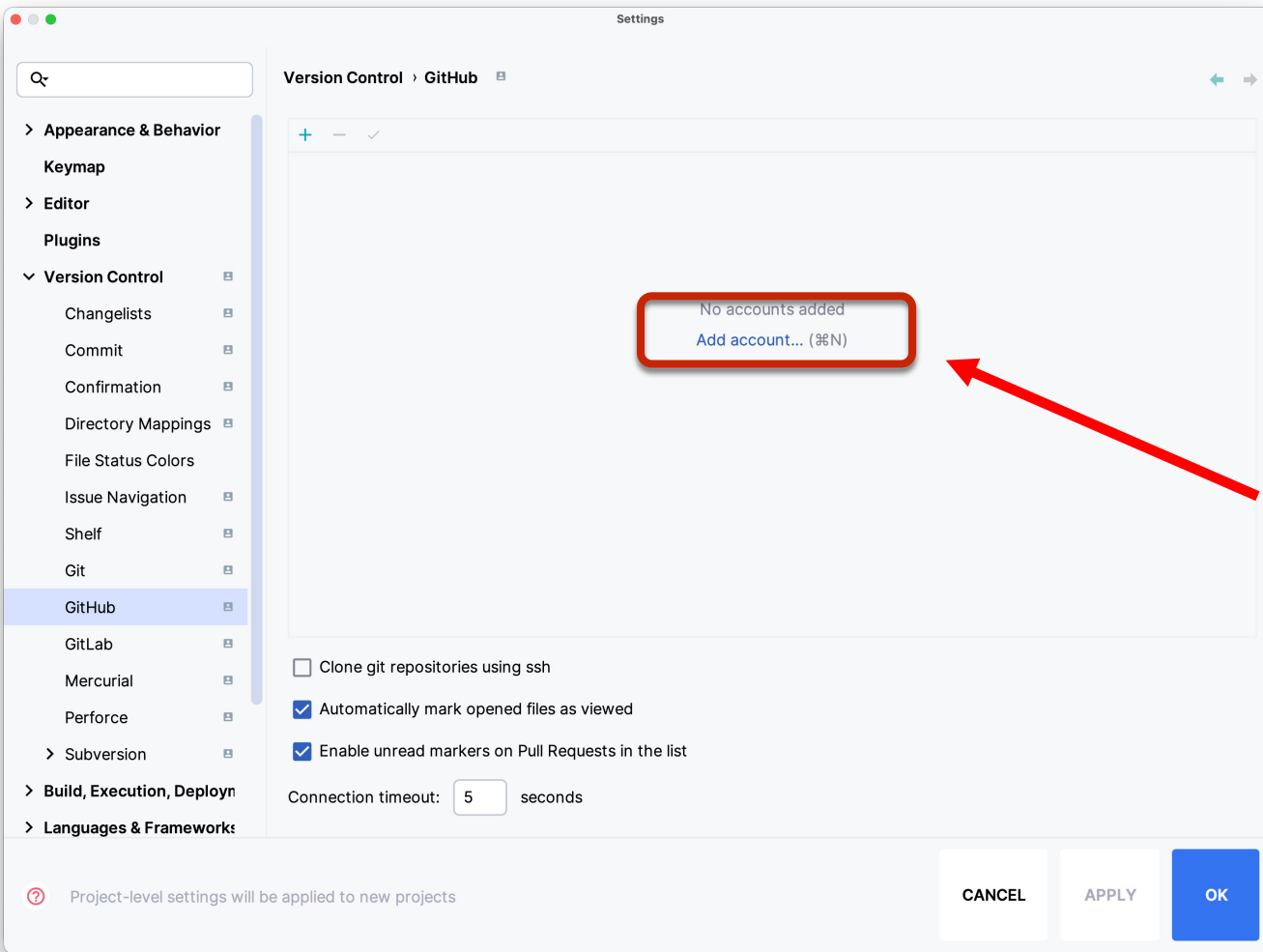
Choose
Version
Control



Choose Github

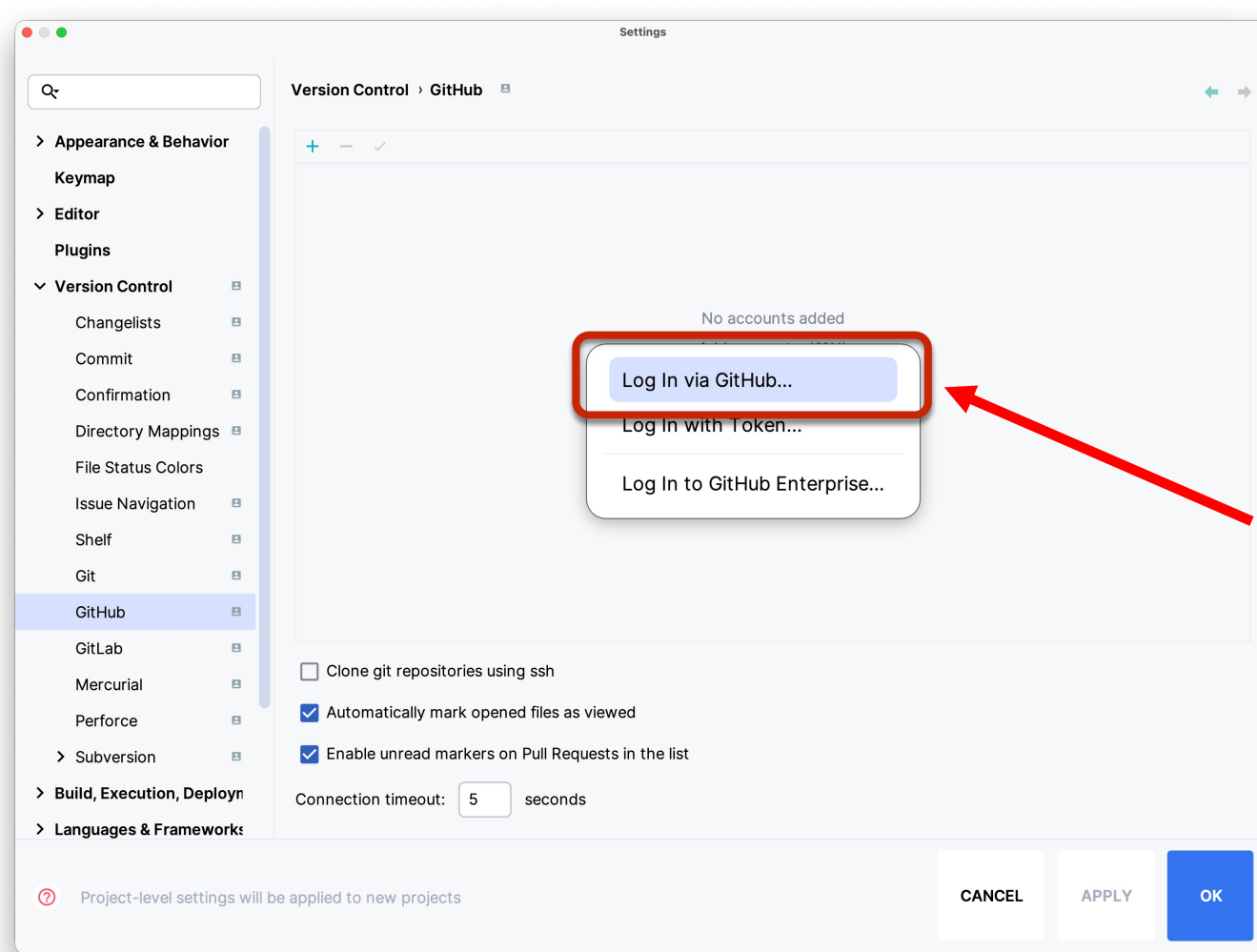


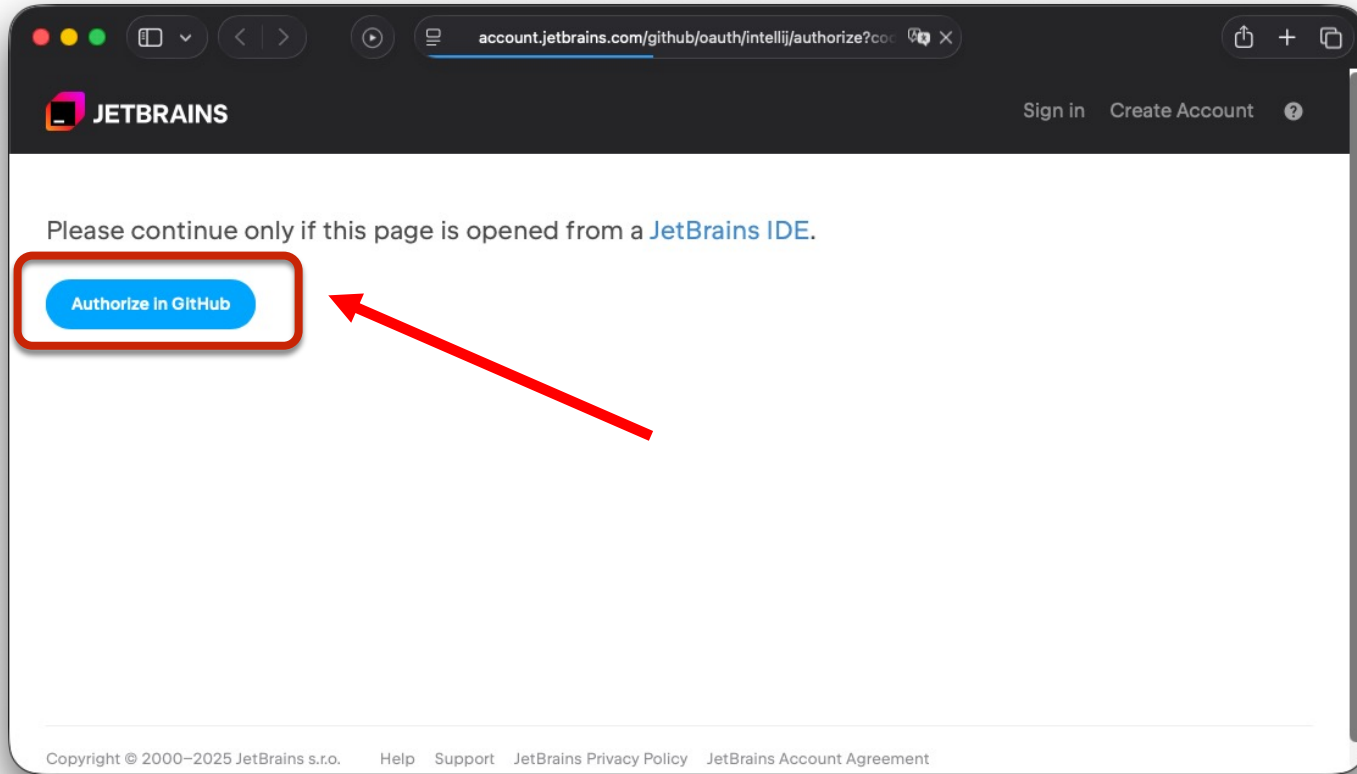
Choose Add account





Choose Log In via Github

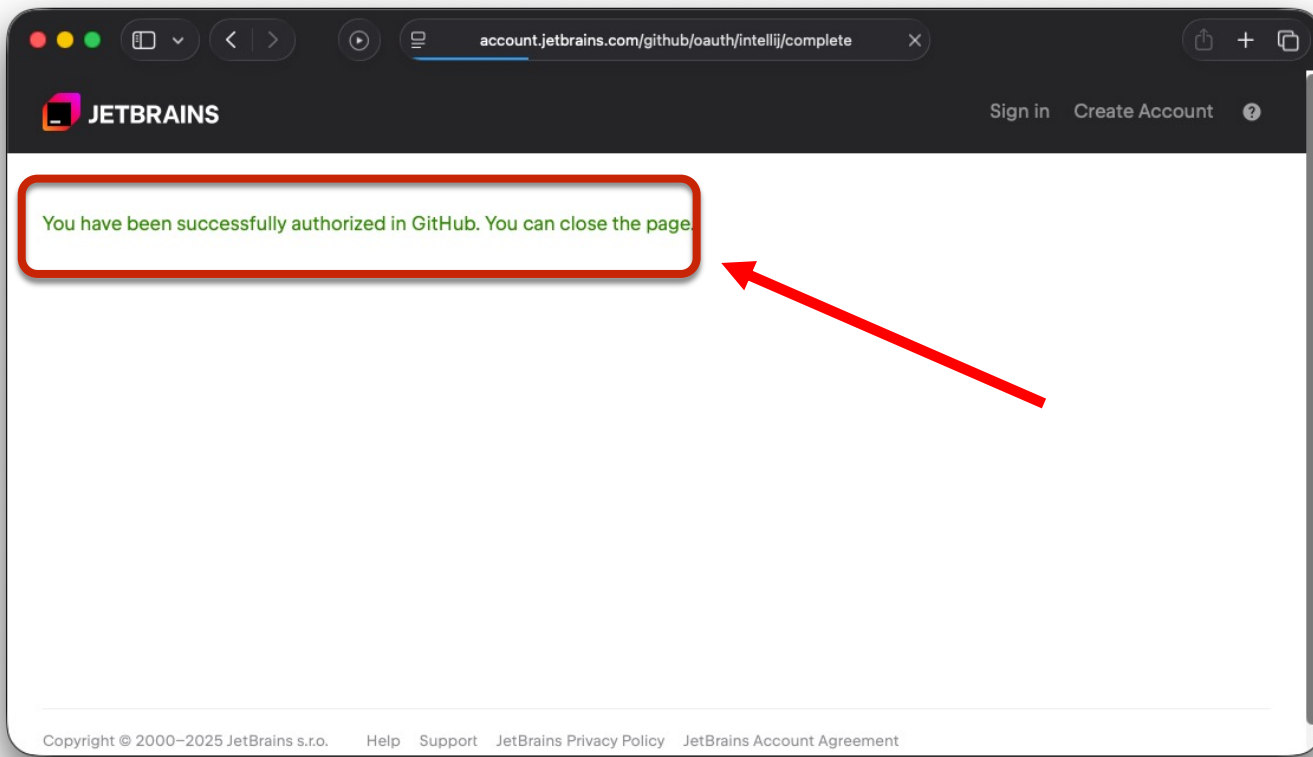




You will be
sent to the
jetbrains site
so Authorise
in Github

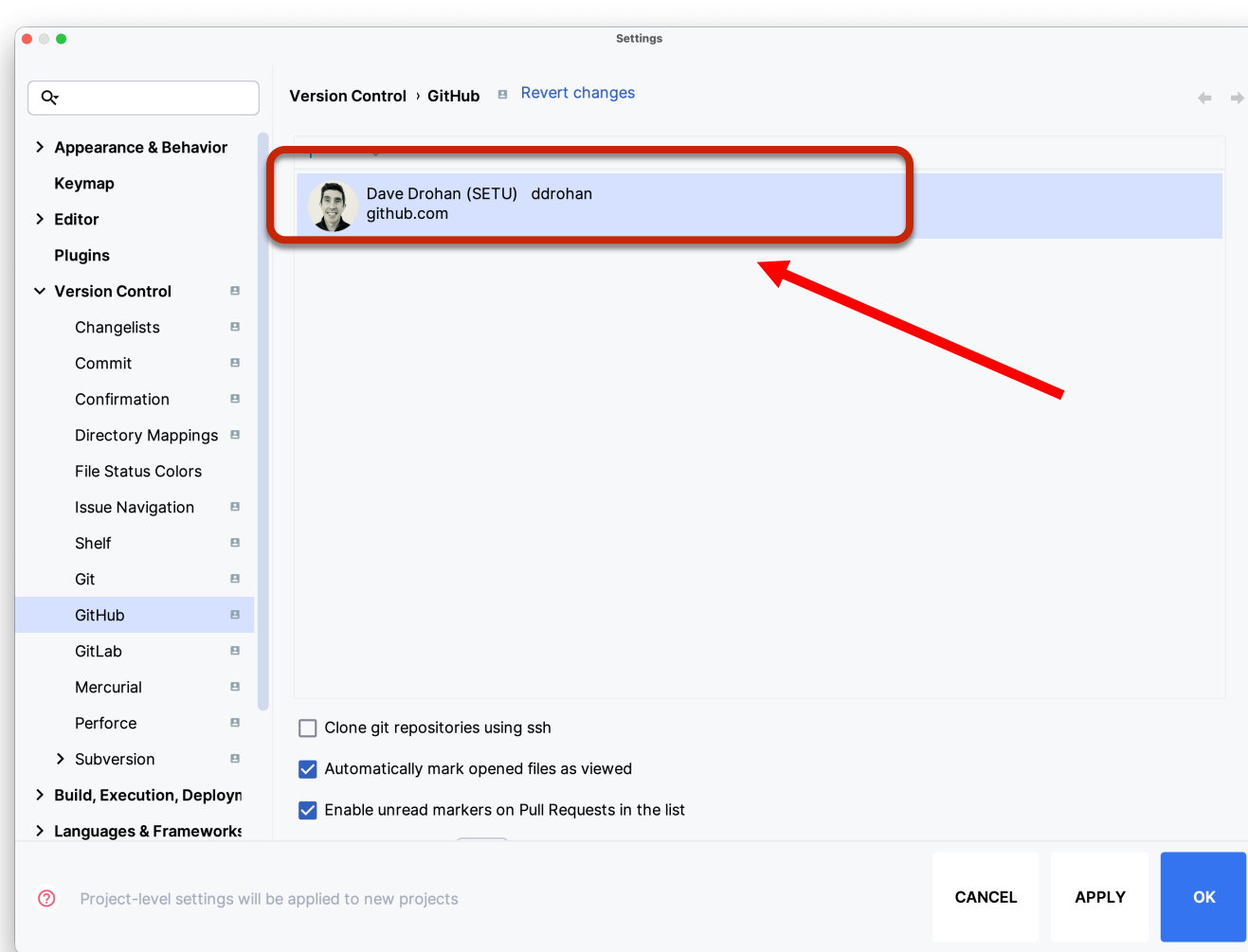


When you
get this
message
return to
IntelliJ

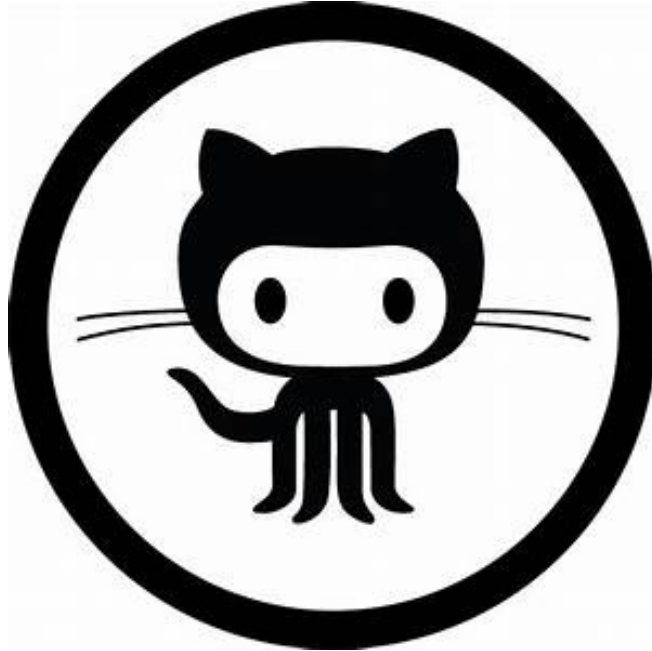


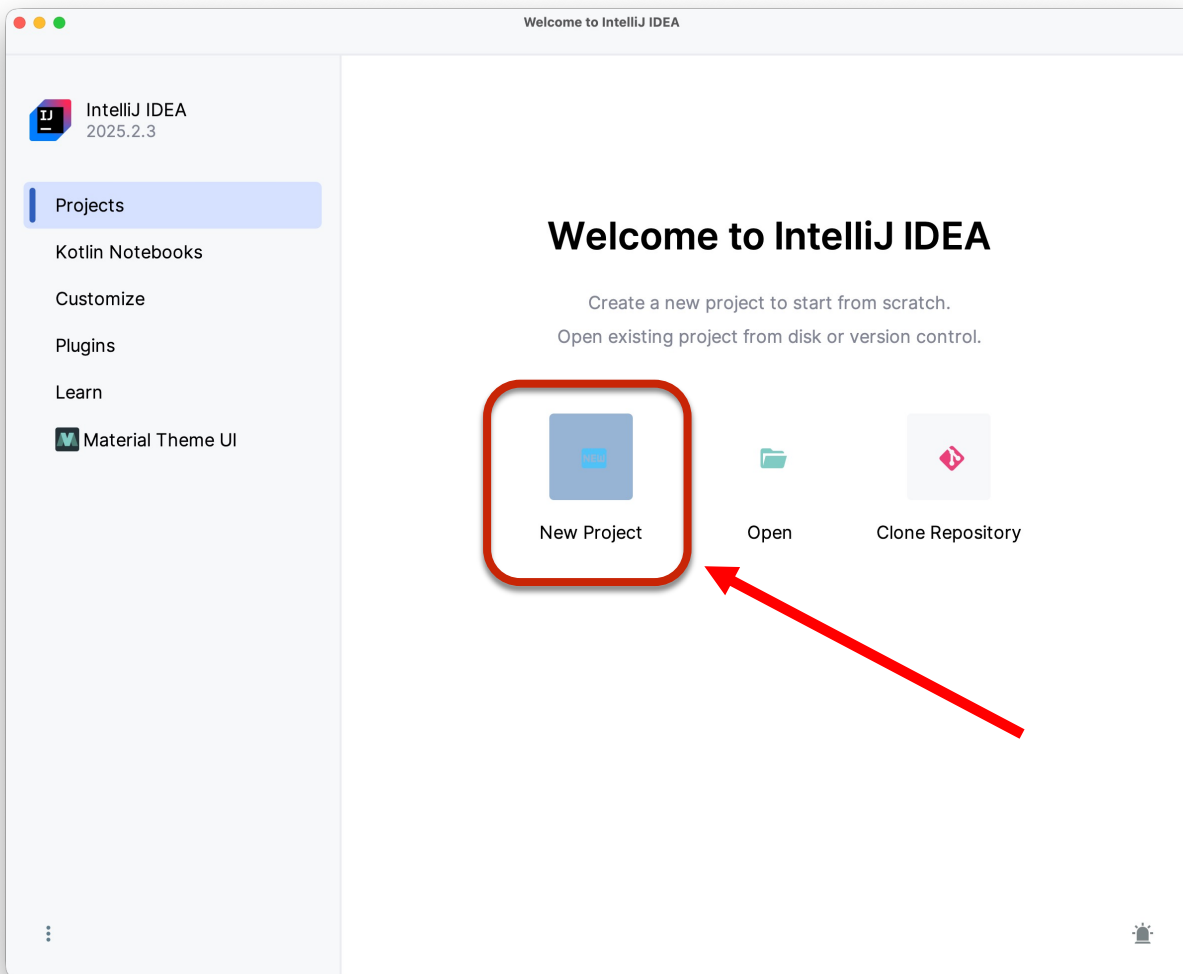


Your Github
account is
now
connected
to IntelliJ



Step 3 – Create your IntelliJ Java Project





Select
'New Project'



New Project

Search

New Project

- Java
- Kotlin
- Groovy
- Empty Project

Generators

- Maven Archetype
- JavaFX
- Spring

Name:

Location:

Project will be created in: ~/Downloads/dev/java_apps/VehicleApp

☒ Create Git repository

Build system: ☐ IntelliJ ☐ Maven ☐ Gradle

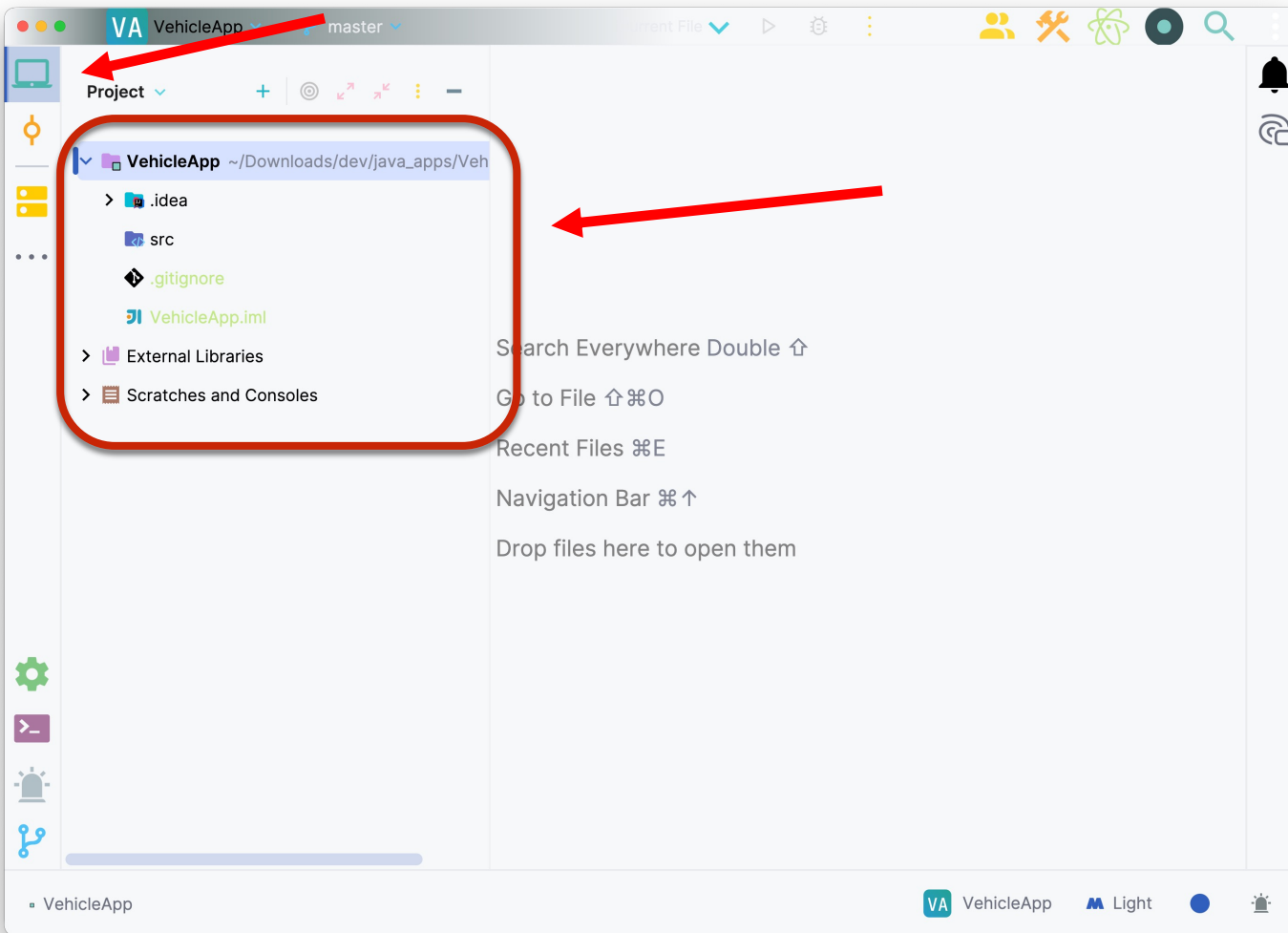
JDK:

☐ Add sample code

> Advanced Settings

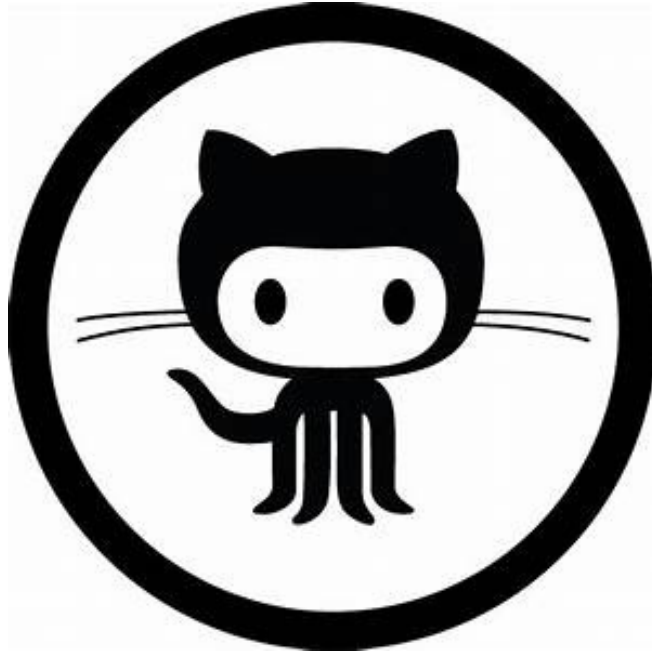
CANCEL CREATE

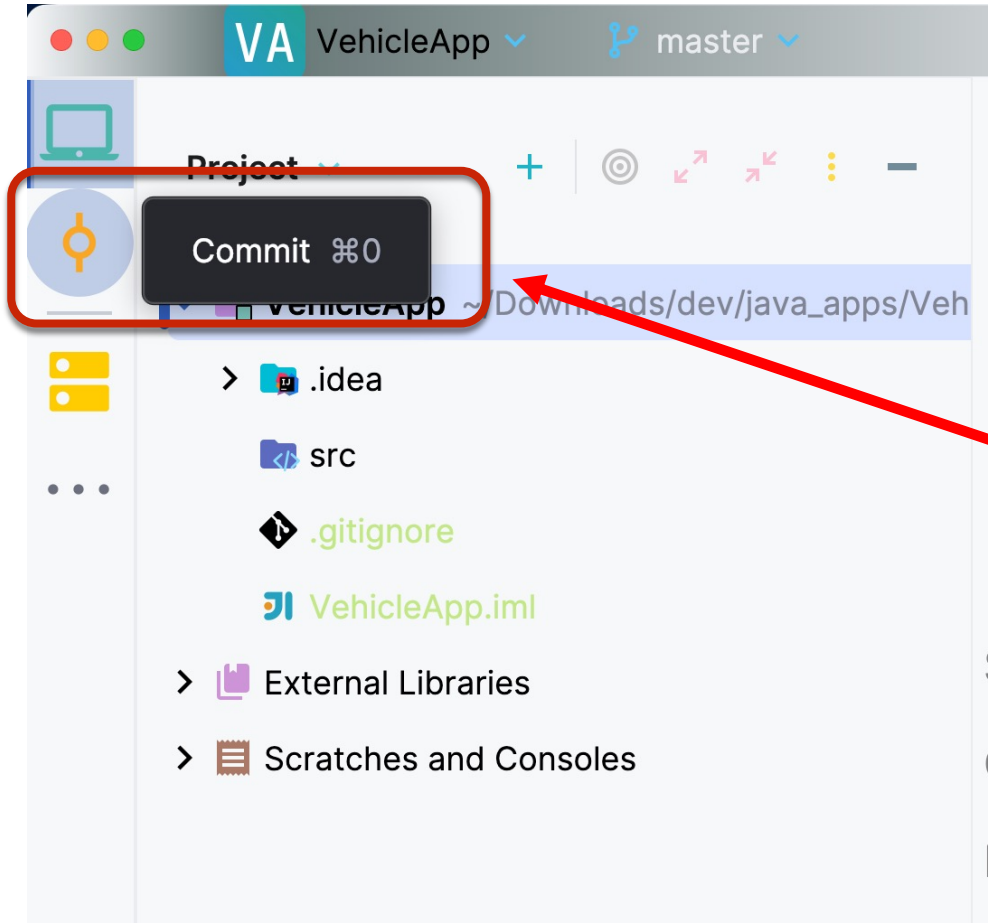
Name your project but also select Create Git repository and Create



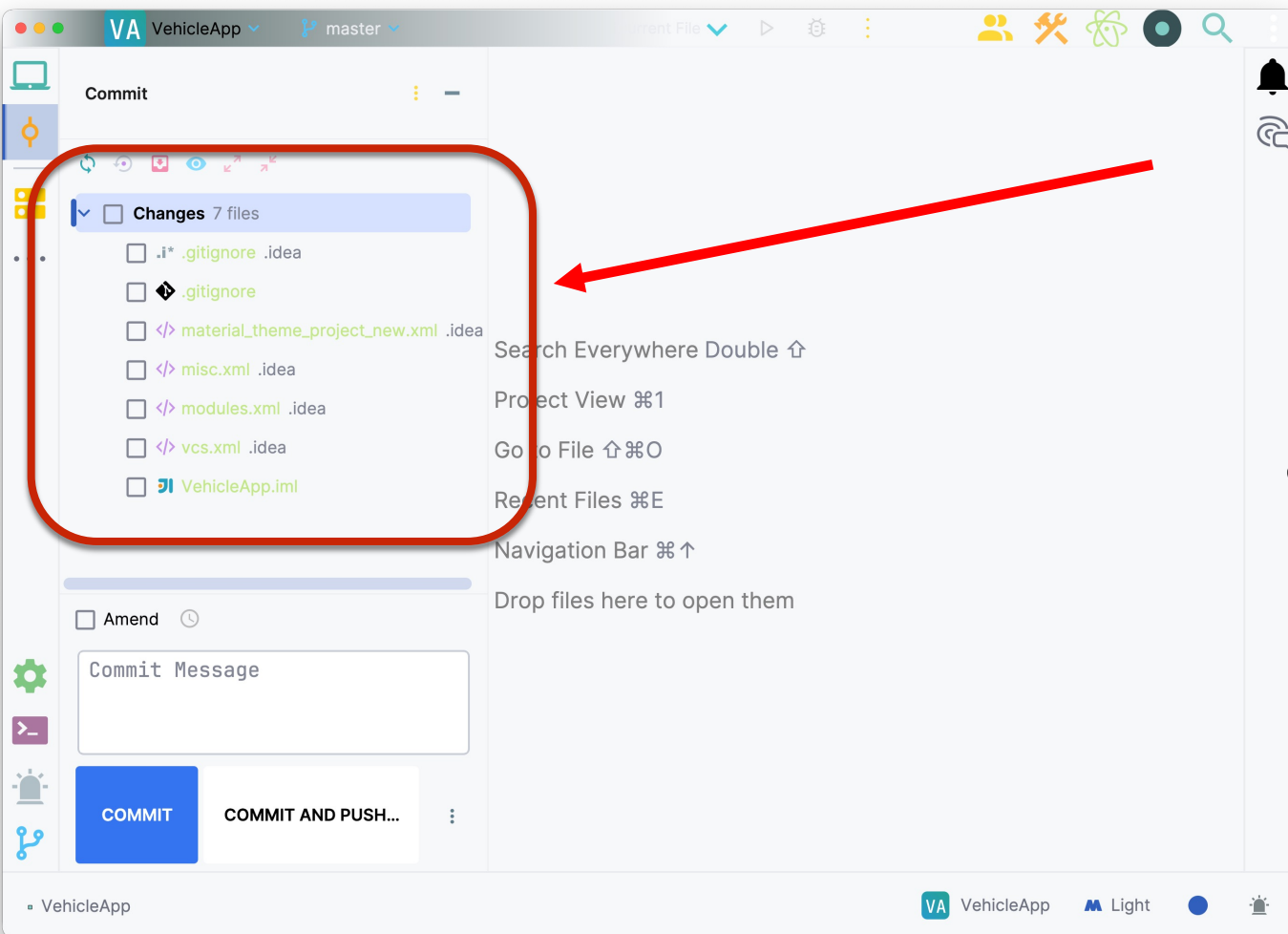
Your new project in the 'Project' Tab

Step 4 – Commit/Add your Project to Github





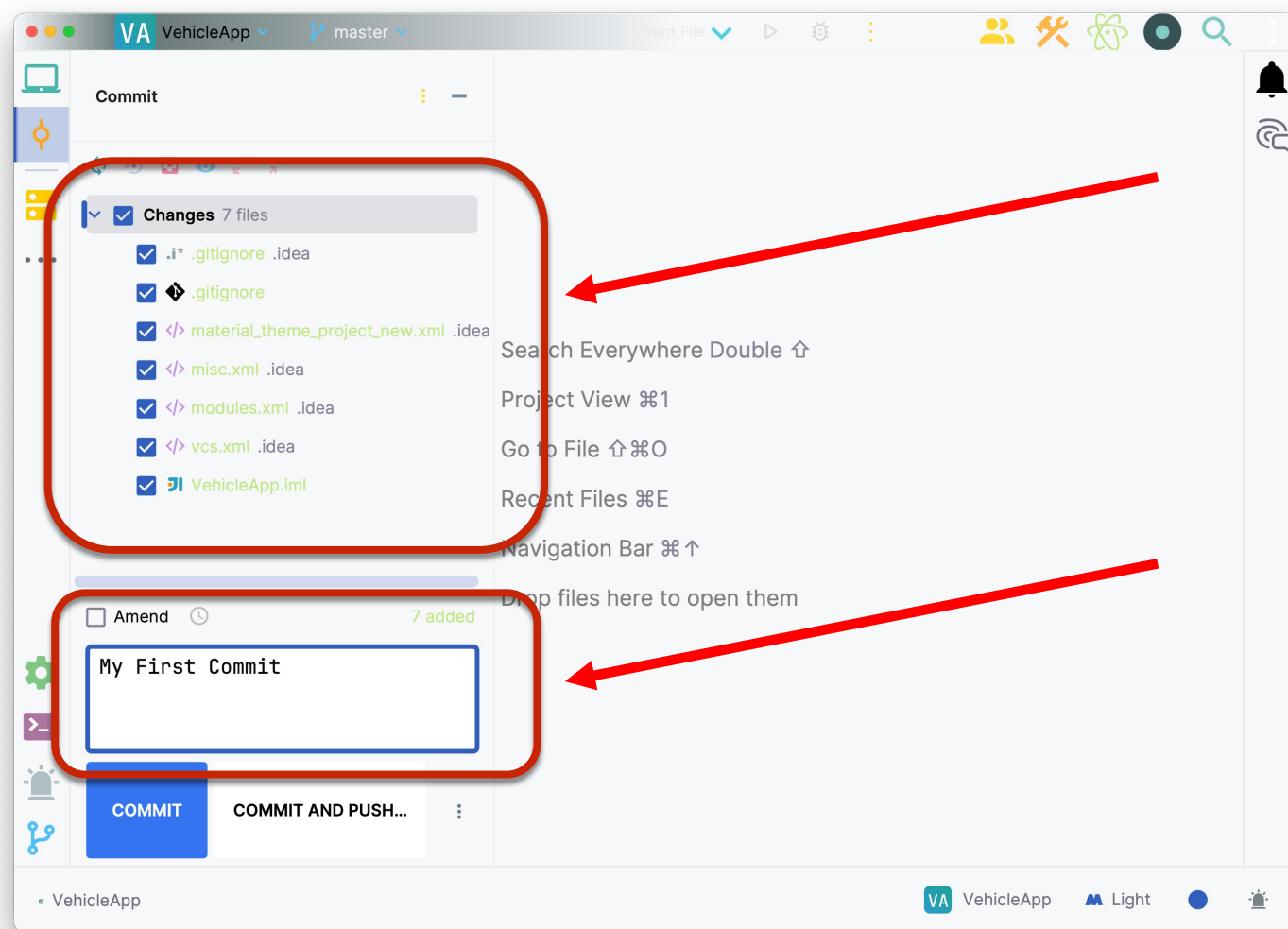
Select the
'Commit' Tab



This shows
any 'Changes'
to files in your
project

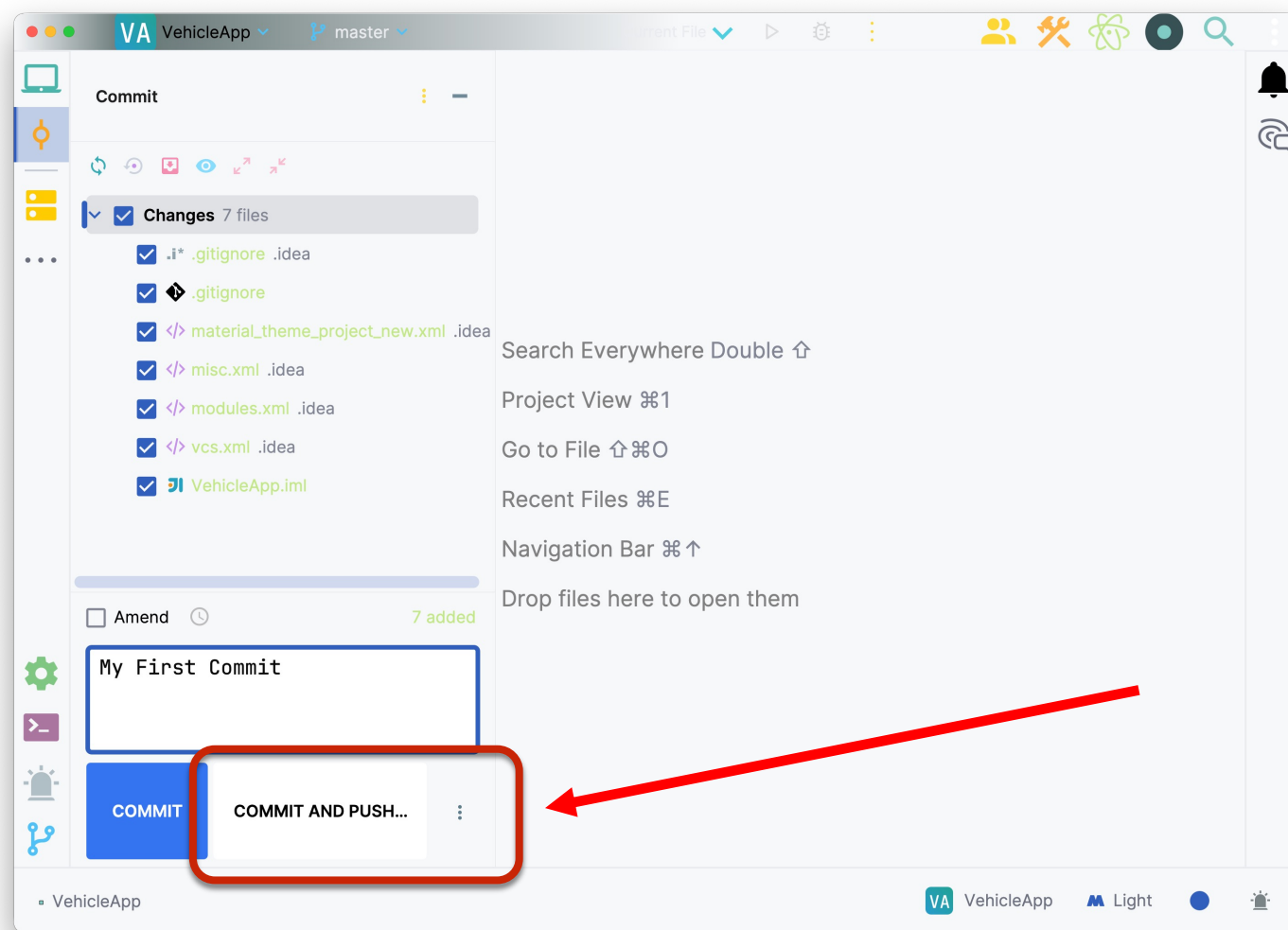


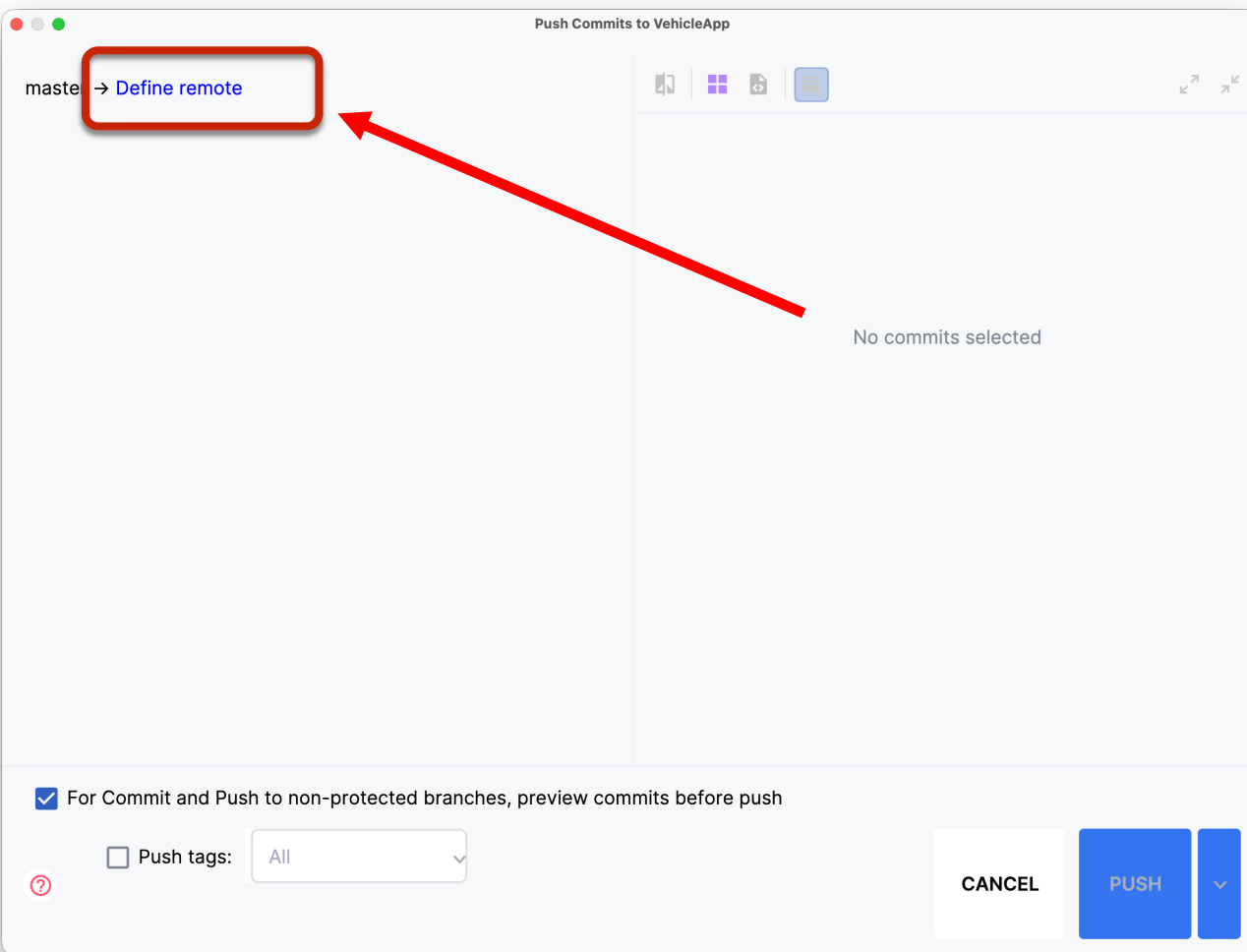
Select ALL
Files to
'commit' and
add a
message





IMPORTANT Select 'Commit and Push'





Select 'Define
remote'



Push Commits to VehicleApp

master → [Define remote](#)

Name:

URL:

☒ Fetch remote

☐ For Commit and P

☐ Push tags:

CANCEL **OK**

CANCEL **PUSH**

Enter the URL
Link from your
Github
Repository



Push Commits to VehicleApp

master → [Define remote](#)

Define Remote

Name:

URL:

☒ Fetch remote

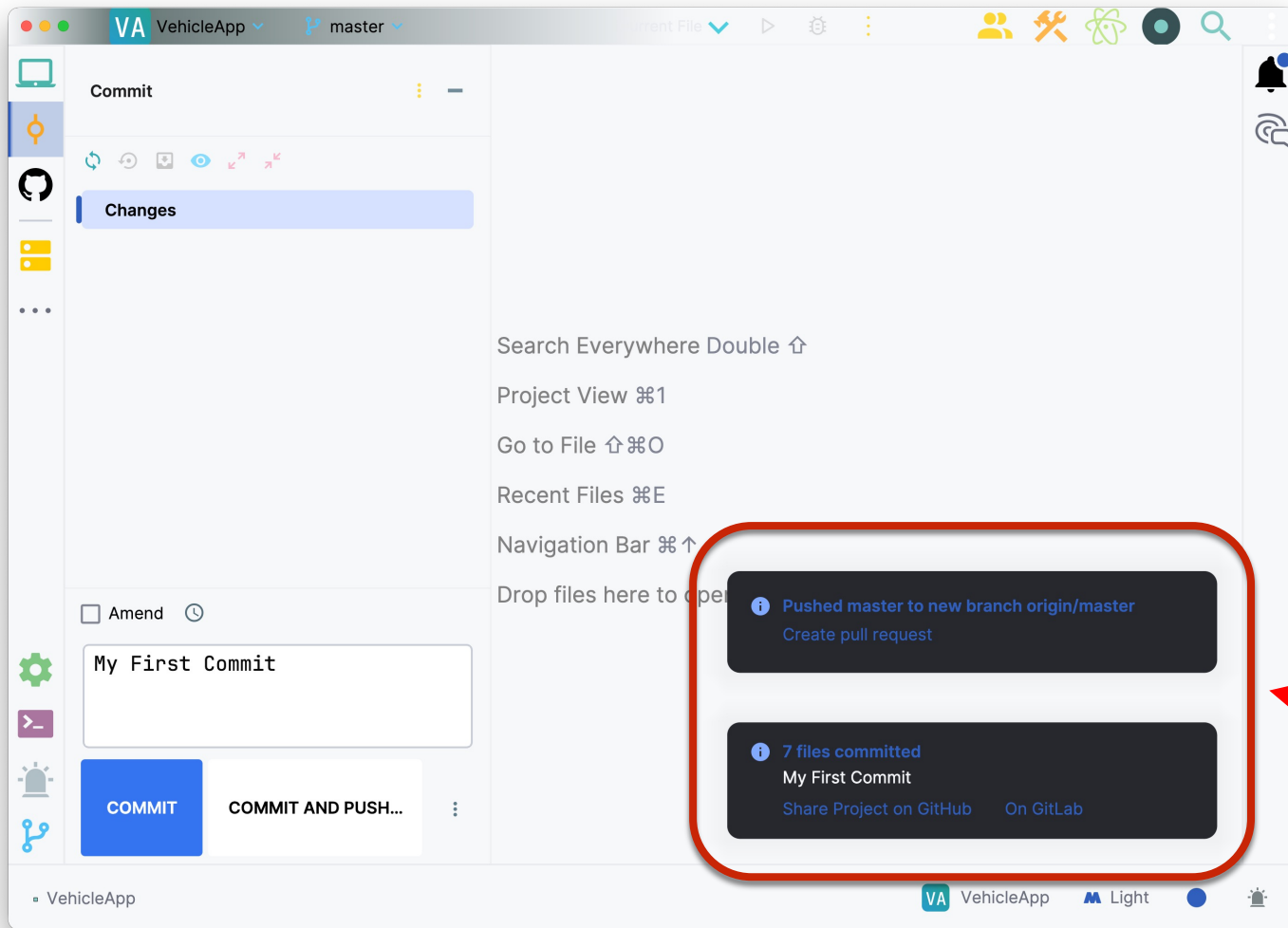
CANCEL **OK**

☒ For Commit and Push

☐ Push tags:

CANCEL **PUSH**

Select
'OK'



This will be
your Initial
Commit



github.com/ddrohan/VehicleApp

ddrohan / VehicleApp

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

VehicleApp Public

master had recent pushes 20 seconds ago [Compare & pull request](#)

main 2 Branches 0 Tags [Go to file](#) [Add file](#) [Code](#)

ddrohan Initial commit 3f282e7 · 1 minute ago 1 Commit

README.md Initial commit 1 minute ago

README

VehicleApp

About

No description, website, or topics provided

Readme

Activity

0 stars

0 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

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Confirm the changes on your Github Repository



github.com/ddrohan/VehicleApp

ddrohan / VehicleApp

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

VehicleApp Public

master had recent pushes 20 seconds ago Compare & pull request

main 2 Branches 0 Tags

Go to file Add file Code

Switch branches/tags

Find or create a branch...

Branches Tags

main default

master

View all branches

Initial commit 1 minute ago 1 Commit

About

No description, website, or topics provided.

Readme Activity 0 stars 0 watching 0 forks

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

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Change to
your 'master'
Branch



github.com/ddrohan/VehicleApp

ddrohan / VehicleApp

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

VehicleApp Public

master had recent pushes 20 seconds ago Compare & pull request

main 2 Branches 0 Tags

Go to file Add file Code

Switch branches/tags

Find or create a branch...

Branches Tags

main default

master

View all branches

Initial commit 1 minute ago 1 Commit

About

No description, website, or topics provided.

Readme Activity 0 stars 0 watching 0 forks

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

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Change to
your 'master'
Branch



github.com/ddrohan/VehicleApp/tree/master

ddrohan / VehicleApp

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

VehicleApp (Public)

master had recent pushes 41 seconds ago

master 2 Branches 0 Tags

This branch is 1 commit ahead of, 1 commit behind.

ddrohan My First Commit 5a6b7c4 · 12 minutes ago 1 Commit

.idea	My First Commit	12 minutes ago
.gitignore	My First Commit	12 minutes ago
VehicleApp.iml	My First Commit	12 minutes ago

README

Add a README

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

Add a README

About

No description, website, or topics provided.

Activity

0 stars

0 watching

0 forks

Releases

No releases published

Create a new release

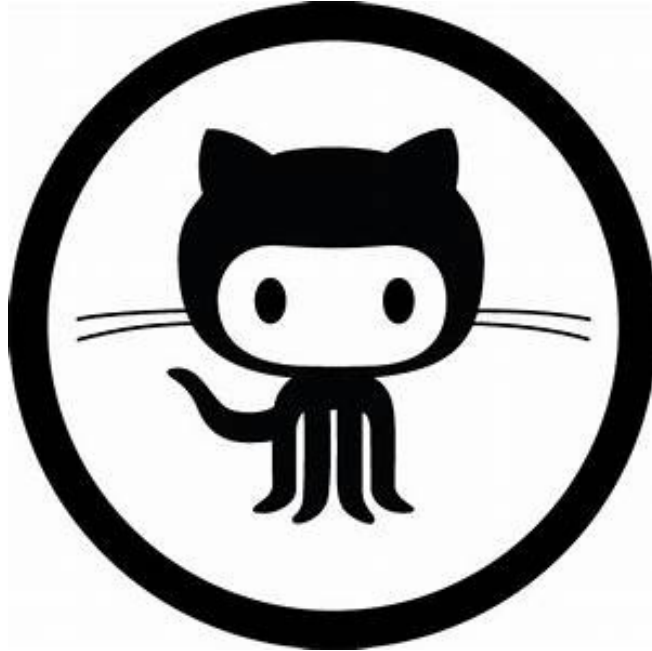
Packages

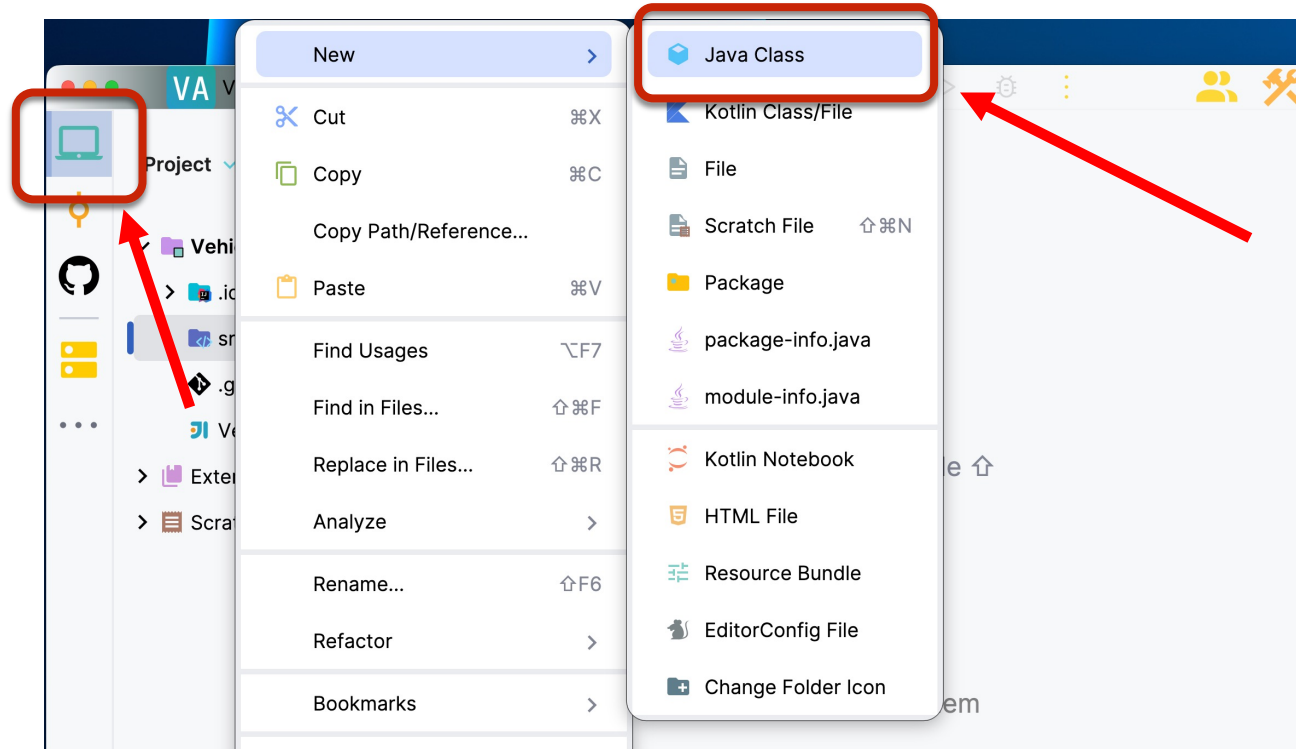
No packages published

Publish your first package

Your Initial Commit Changes

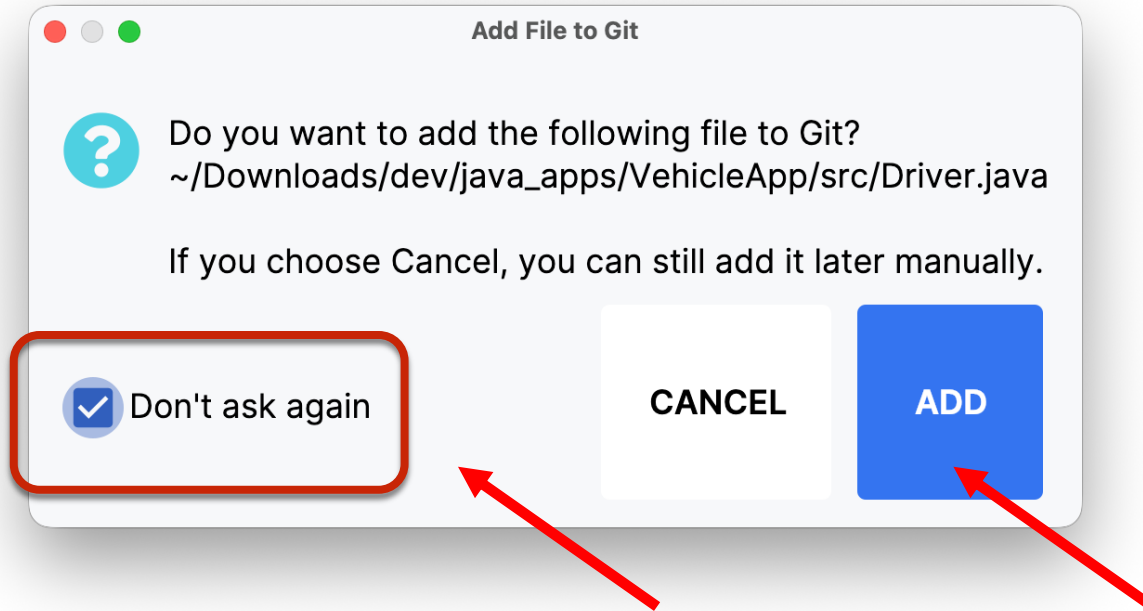
Step 5 – Make changes to your Project





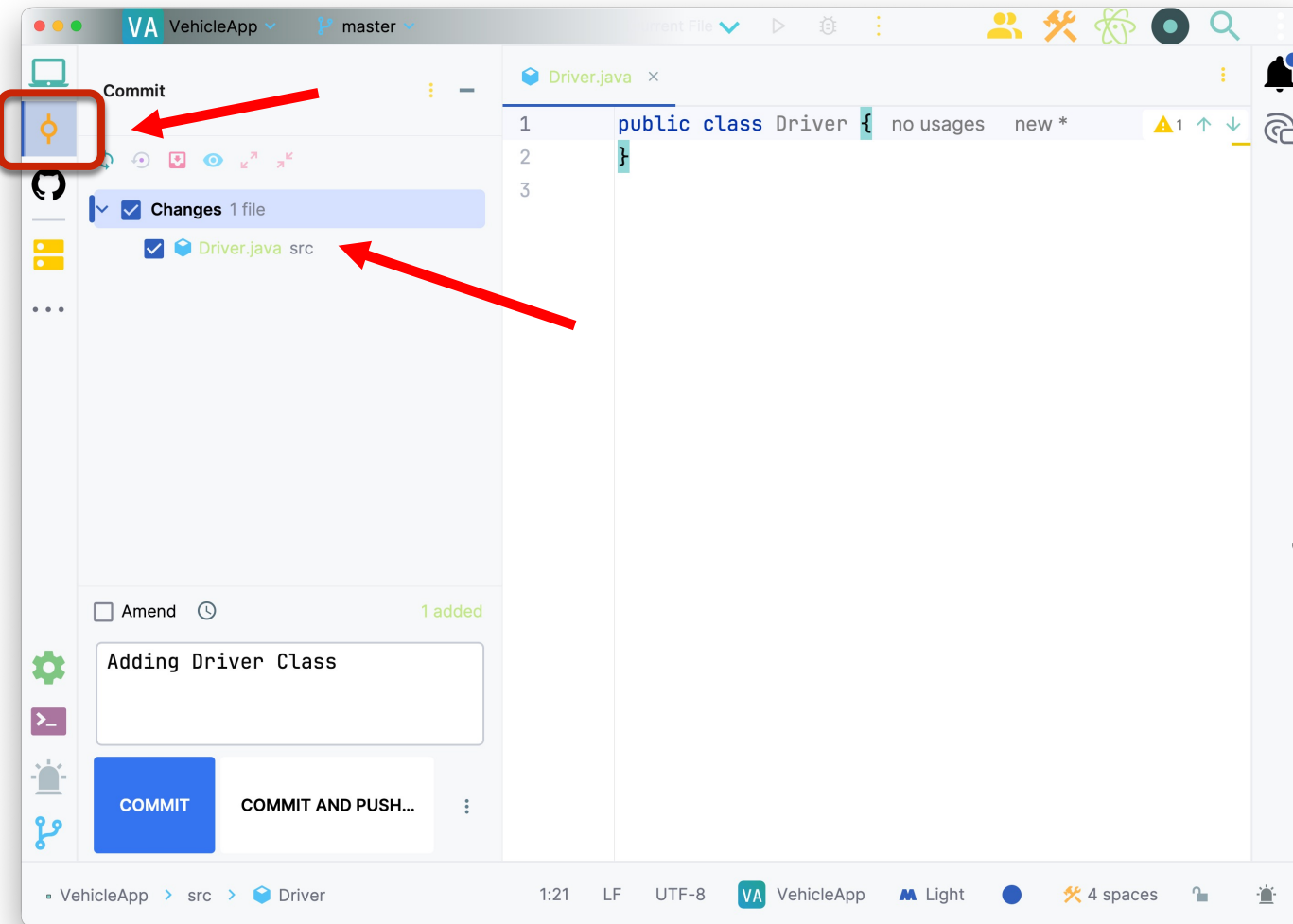
Select your
'Project' Tab
and Add a
new Java
Class

(class Driver here)



Most of the
time you
SHOULD add
the file to git.

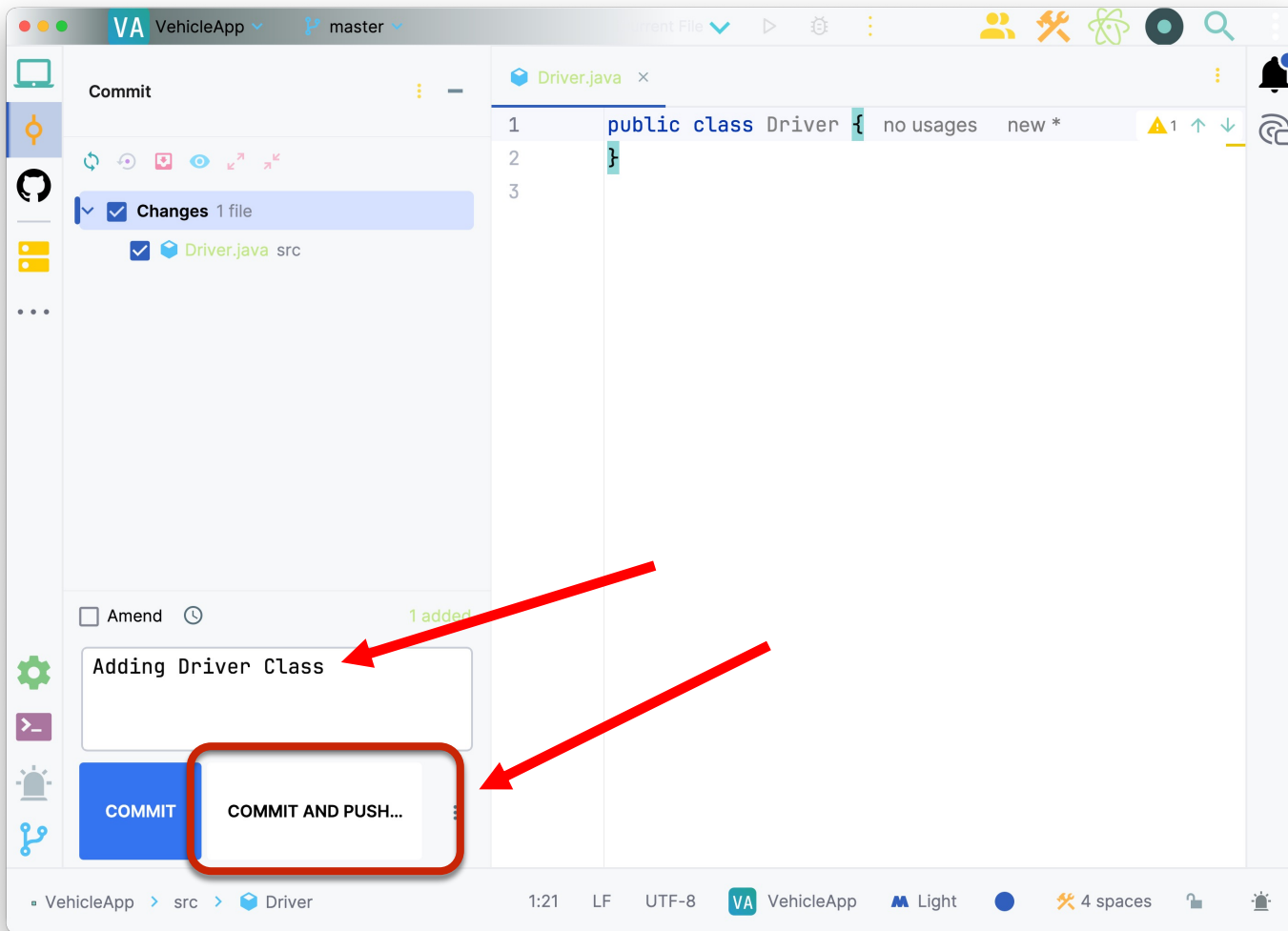
Choose 'Don't
ask again' and
'ADD'



Select
'Commit' Tab
again and
Select the files
to commit
(Driver.java
here)

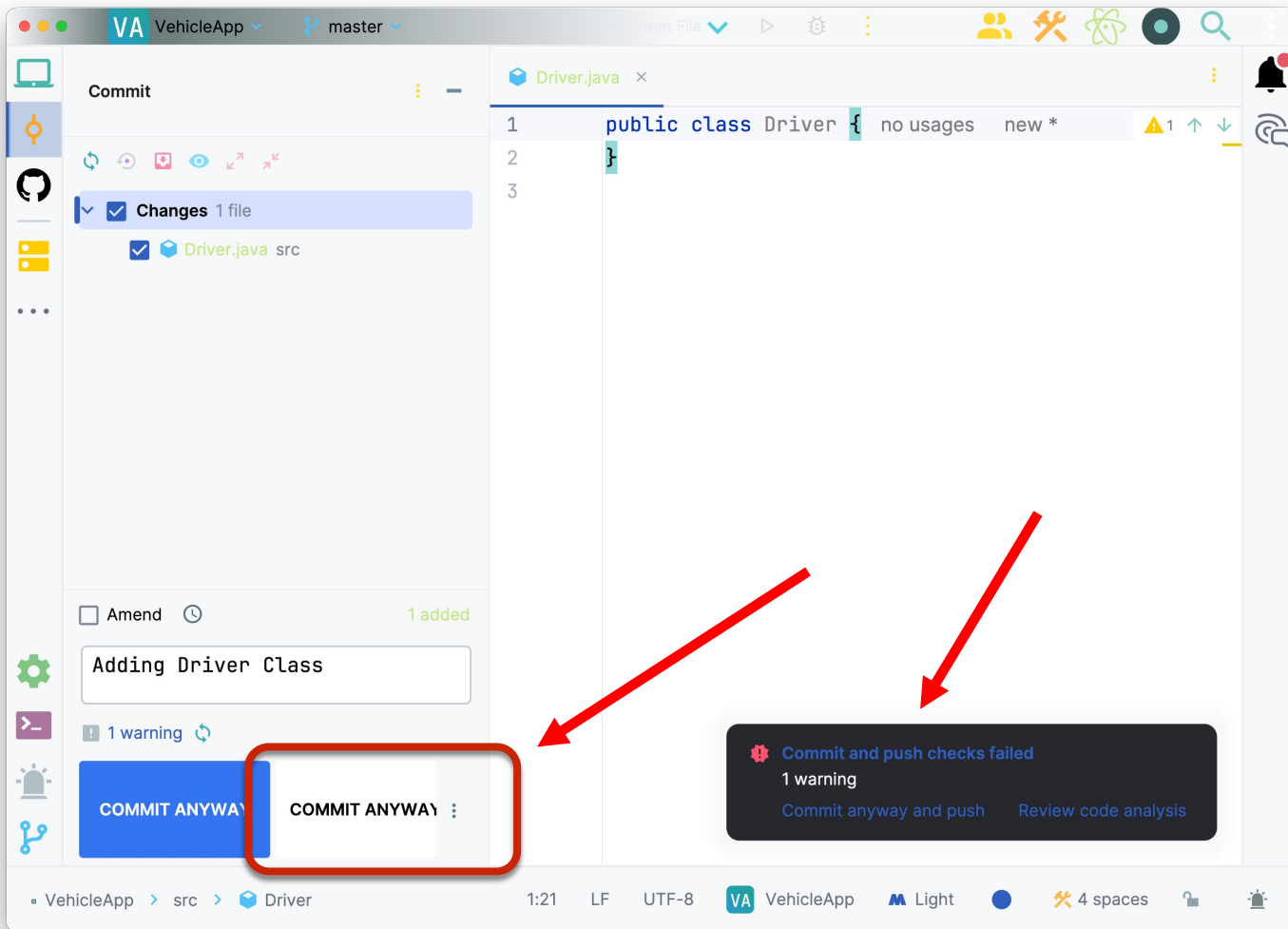


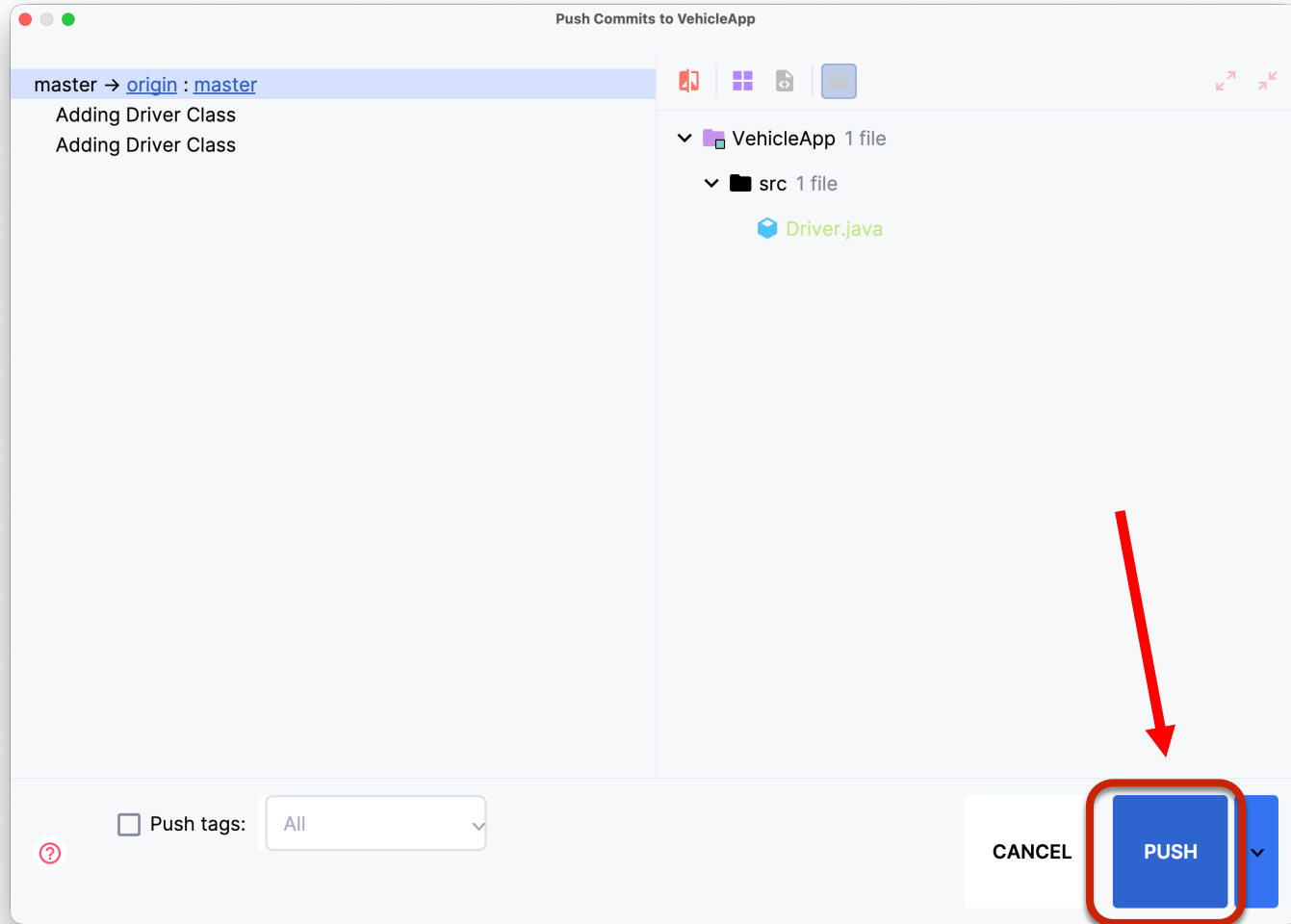
Add a
message and
'Commit and
Push' once
again





You can
ignore the
warning so
'Commit
Anyway And
Push'

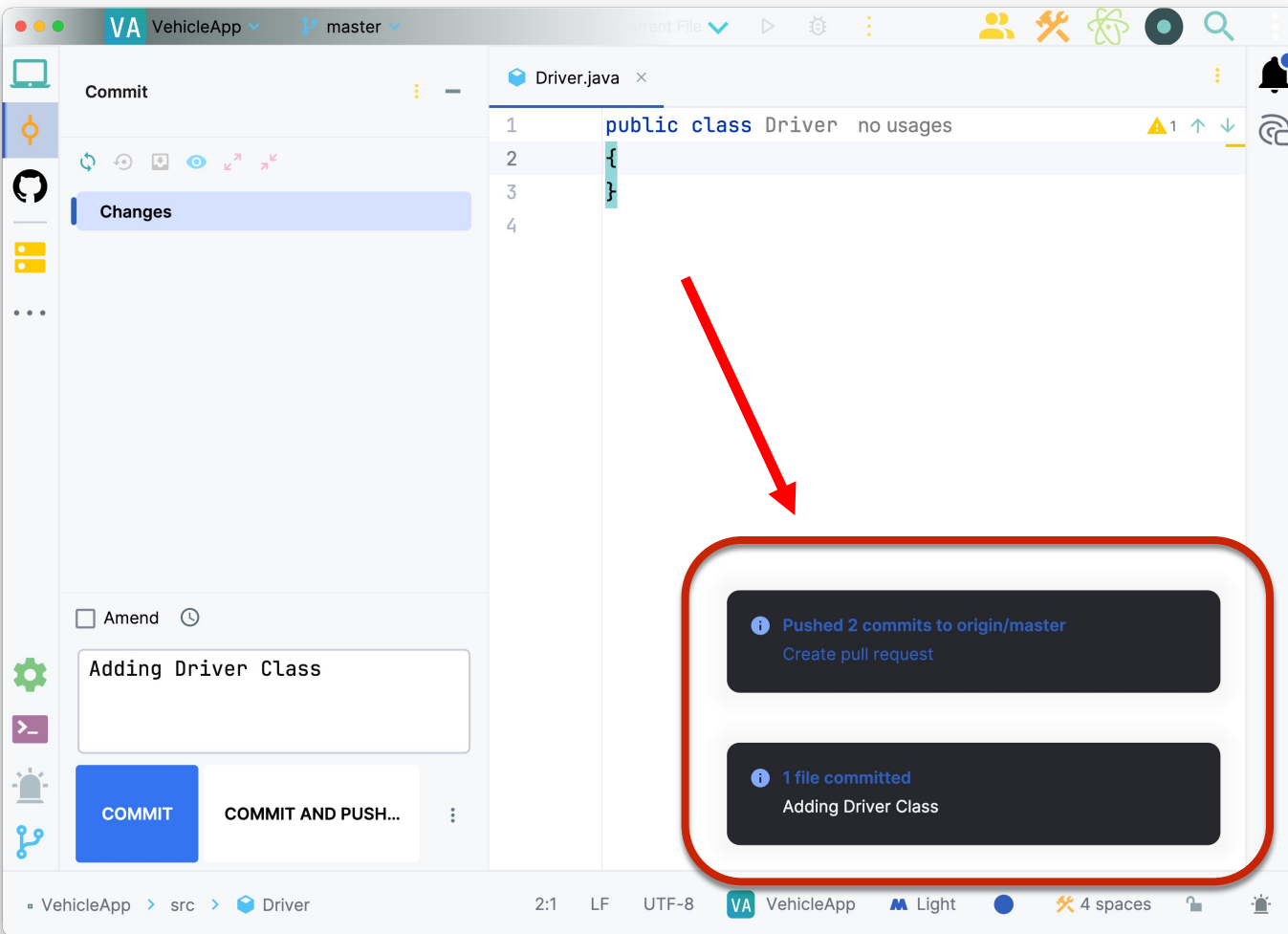




Select
'PUSH'



Confirmation
message of
the commit
and push





github.com/ddrohan/VehicleApp/tree/master

ddrohan / VehicleApp

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

VehicleApp Public

master had recent pushes 13 seconds ago Compare & pull request

master 2 Branches 0 Tags

This branch is 3 commits ahead of, 1 commit behind main.

ddrohan Adding Driver Class b3df740 - now 3 Commits

.idea	My First Commit	17 minutes ago
src	Adding Driver Class	now
.gitignore	My First Commit	17 minutes ago
VehicleApp.iml	My First Commit	17 minutes ago

README

Add a README

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

Add a README

About

No description, website, or topics provided.

Activity

0 stars

0 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Confirm
updates to
your
repository



The screenshot shows a GitHub repository for 'ddrohan / VehicleApp'. The left sidebar displays the file structure, with the 'src' folder expanded, showing 'Driver.java', '.gitignore', and 'VehicleApp.iml'. The main area shows the commit history for 'src/Driver.java', with a recent commit 'Adding Driver Class' by 'ddrohan' at 'b3df740'.

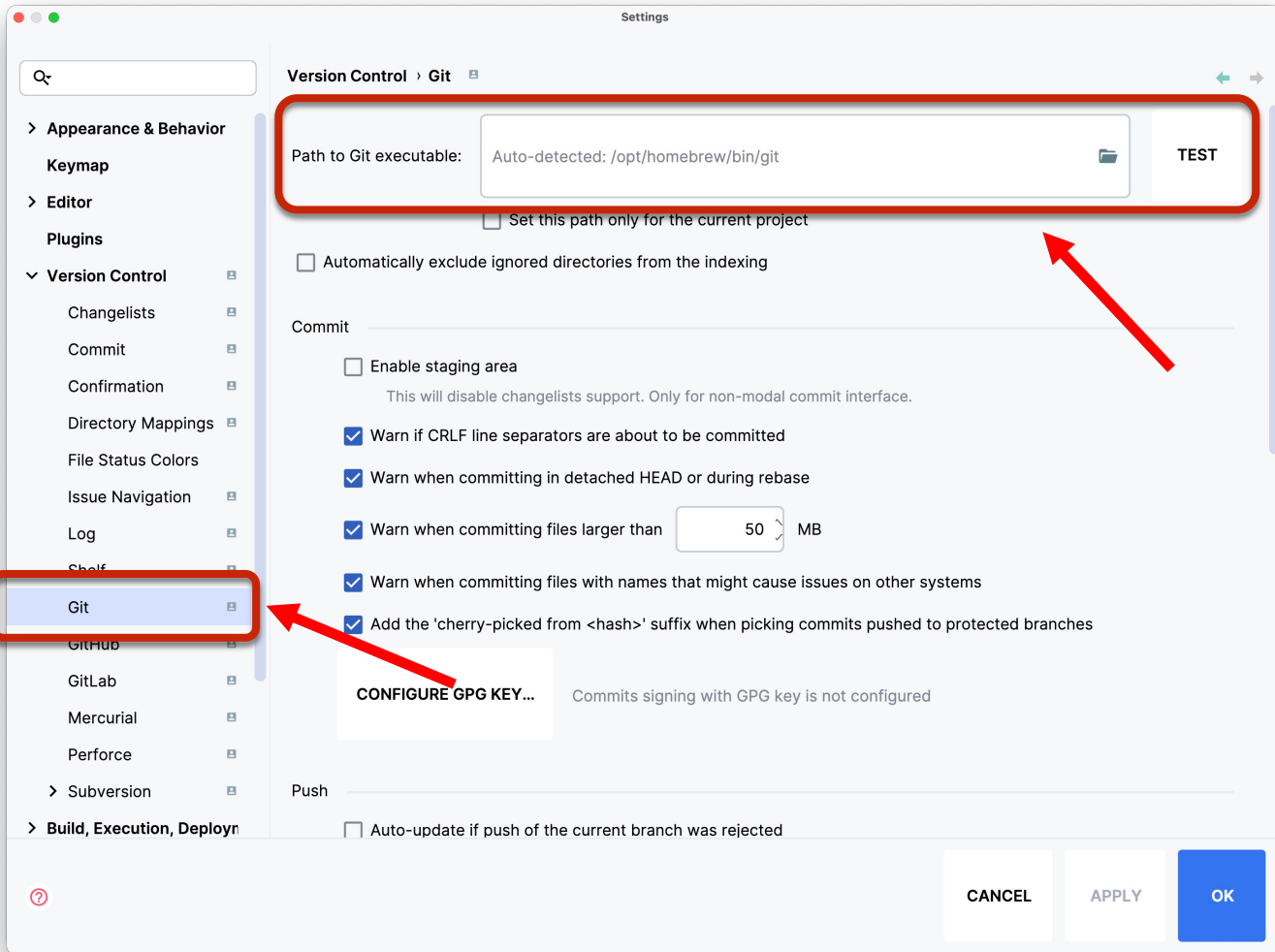
Confirm
updates to
your
repository



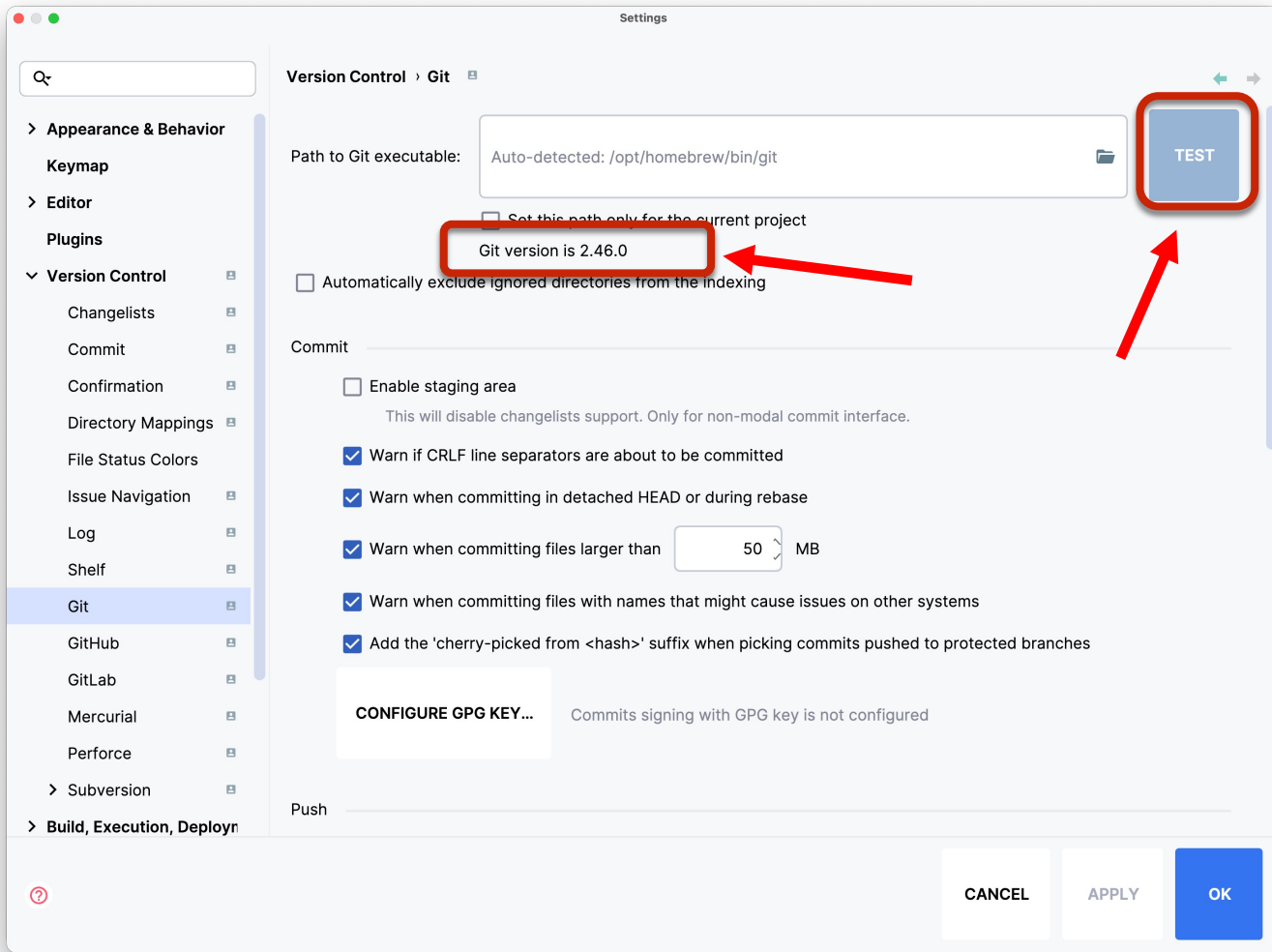
Follow **Step 5** only for every additional change to your Project



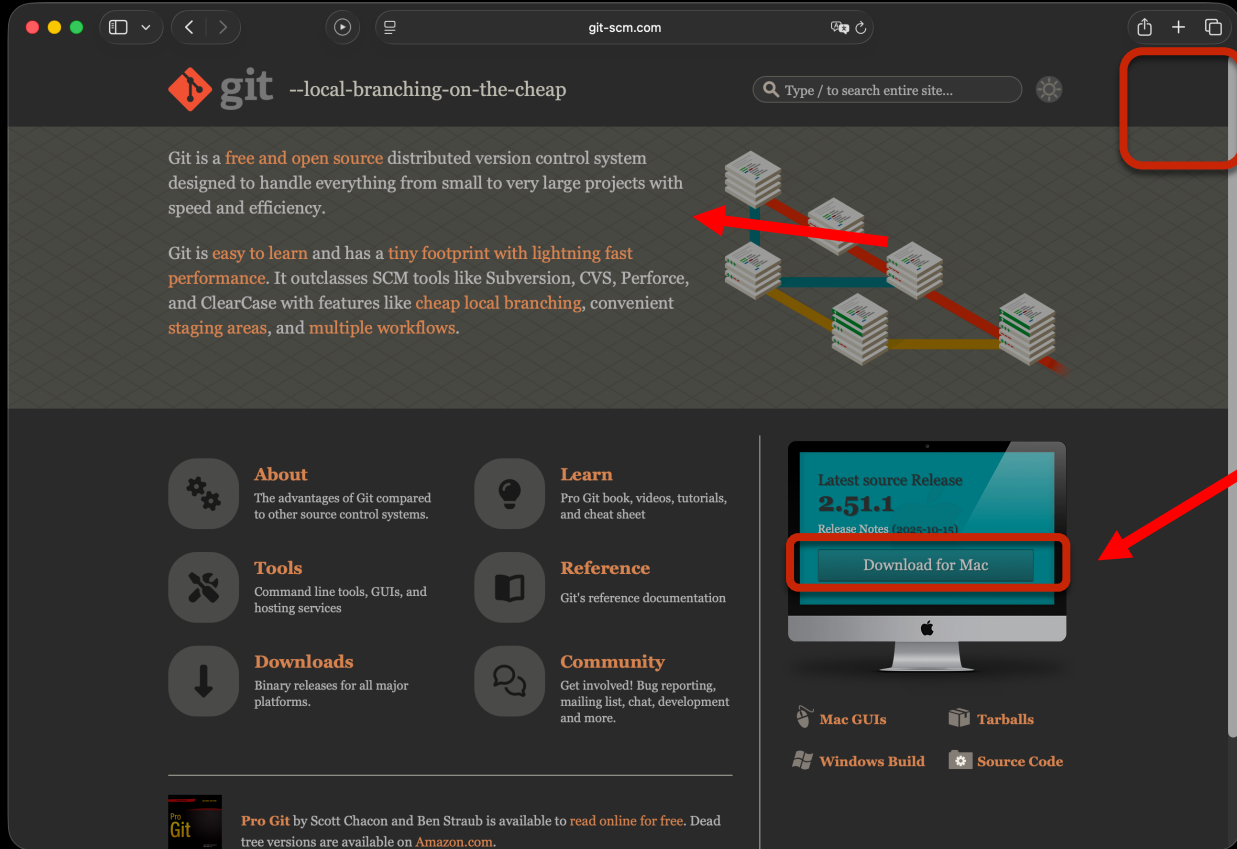
TROUBLE SHOOTING



Confirm your
git is
configured
correctly



Confirm your
git is
configured
correctly

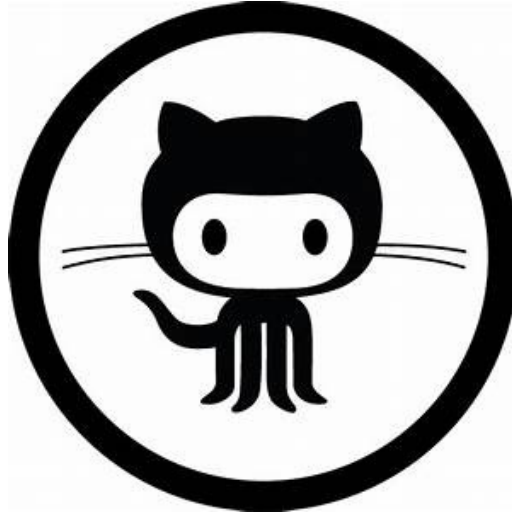


If not, install
Git from

<https://git-scm.com>

and make sure
path in IntelliJ
points to this
installation

Demonstration...



Questions?



Thanks.

A hand-drawn smiley face with a wide, curved mouth and two dots for eyes. It has a horizontal line above it, possibly representing a headband or a separator line. The drawing is done in a simple, sketchy style.