How to run DIDS app

Software needed:

https://developer.android.com/studio

https://nodejs.org/en/download

https://desktop.github.com/

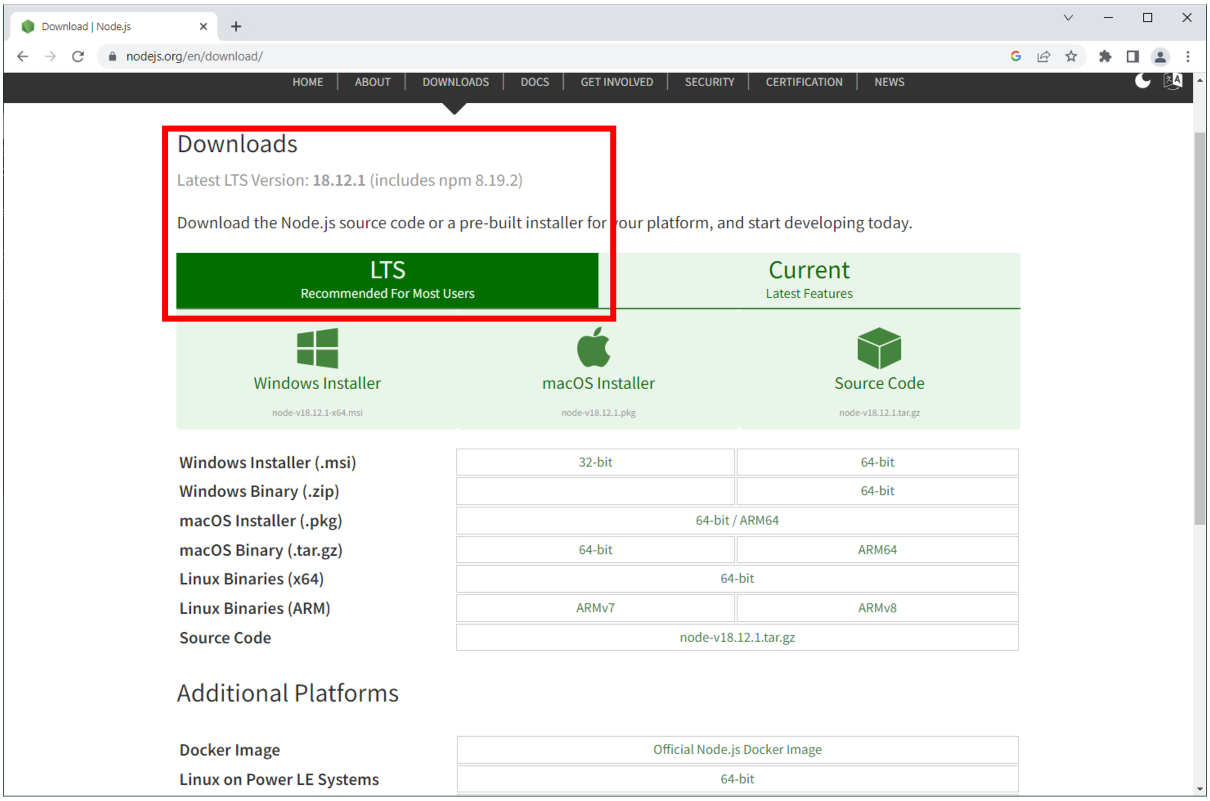
https://github.com/astyfre/PBB

Below is a how to on installing the software and running the app

Node JS

To install this environment, go to https://nodejs.org/en/download/ .

Start by choosing an LTS package that is greater than version 12



Downloads

Latest LTS Version: **18.12.1** (includes npm 8.19.2)

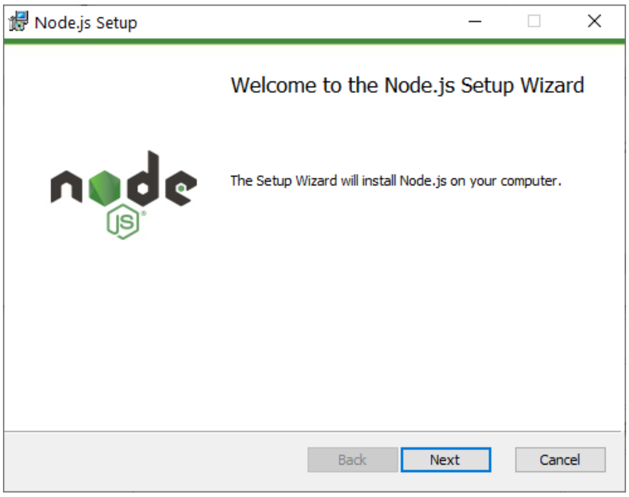
Download the Node.js source code or a pre-built installer for your platform, and start developing today.

Windows Installer (.msi)	32-bit	64-bit
Windows Binary (.zip)		64-bit
macOS Installer (.pkg)	64-bit / ARM64	
macOS Binary (.tar.gz)	64-bit	ARM64
Linux Binaries (x64)	64-bit	
Linux Binaries (ARM)	ARMv7	ARMv8
Source Code	node-v18.12.1.tar.gz	

Additional Platforms

Docker Image	Official Node.js Docker Image
Linux on Power LE Systems	64-bit

After download click and the executable and choose next

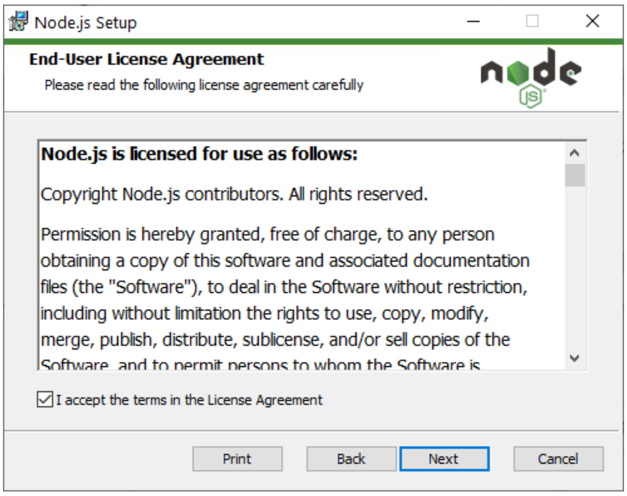


Node.js Setup

Welcome to the Node.js Setup Wizard

The Setup Wizard will install Node.js on your computer.

Agree to the terms and conditions



Node.js Setup

End-User License Agreement

Please read the following license agreement carefully

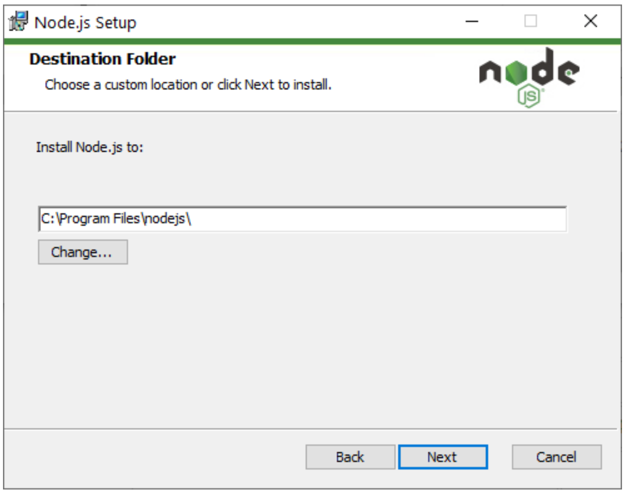
Node.js is licensed for use as follows:

Copyright Node.js contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is

☑ I accept the terms in the License Agreement

Leave as default



Node.js Setup

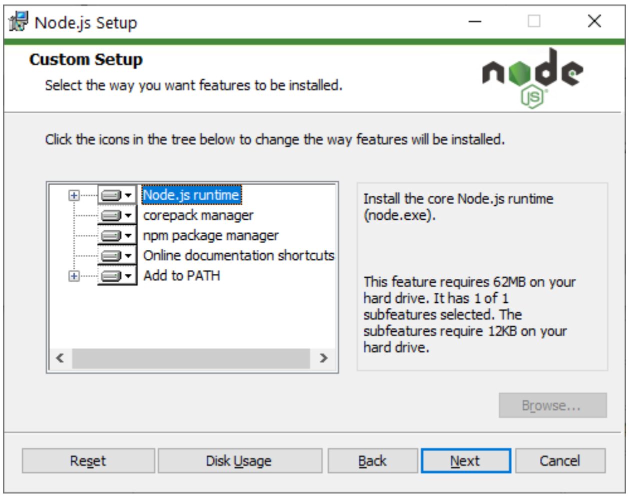
Destination Folder

Choose a custom location or click Next to install.

Install Node.js to:

C:\Program Files\nodejs\

Can click next



Custom Setup

Select the way you want features to be installed.

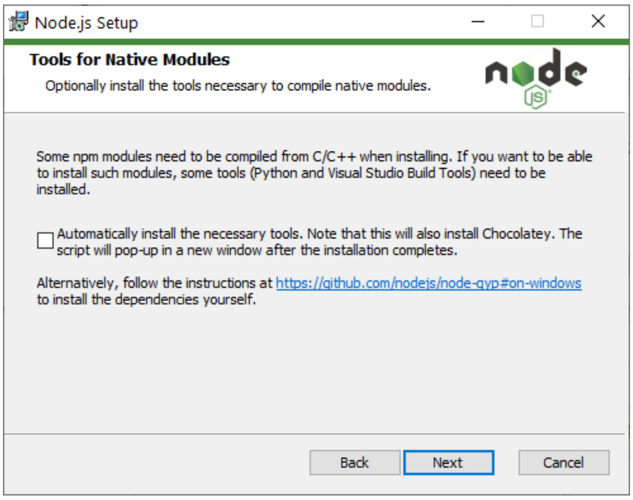
Click the icons in the tree below to change the way features will be installed.

- Node.js runtime
- corepack manager
- npm package manager
- Online documentation shortcuts
- Add to PATH

Install the core Node.js runtime (node.exe).

This feature requires 62MB on your hard drive. It has 1 of 1 subfeatures selected. The subfeatures require 12KB on your hard drive.

Click next



Tools for Native Modules

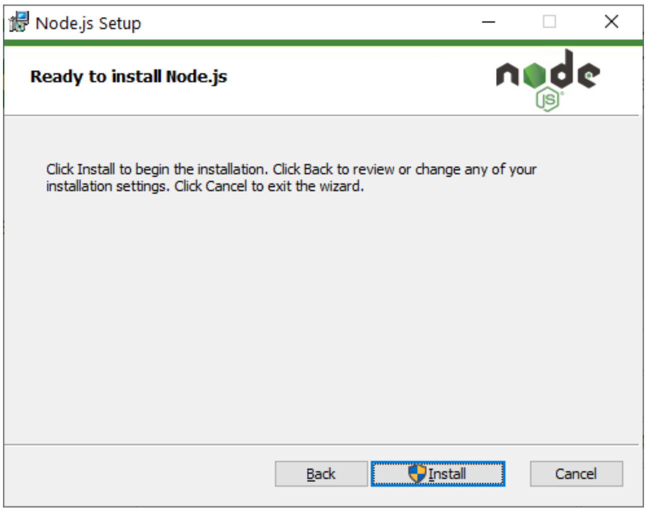
Optionally install the tools necessary to compile native modules.

Some npm modules need to be compiled from C/C++ when installing. If you want to be able to install such modules, some tools (Python and Visual Studio Build Tools) need to be installed.

□ Automatically install the necessary tools. Note that this will also install Chocolatey. The script will pop-up in a new window after the installation completes.

Alternatively, follow the instructions at https://github.com/nodejs/node-gyp#on-windows to install the dependencies yourself.

Click Install

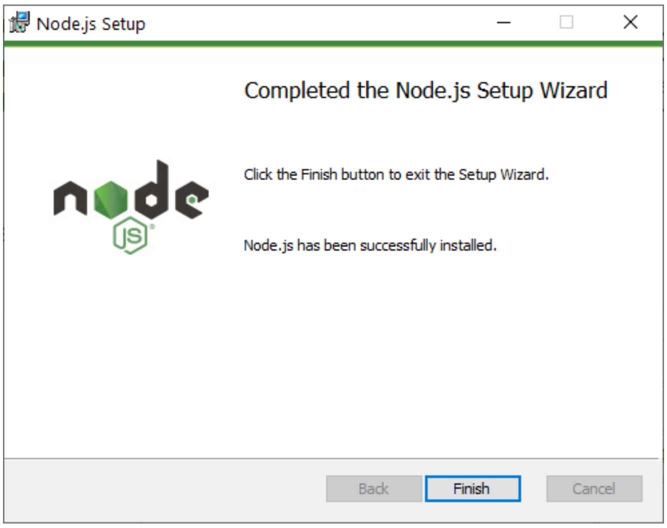


Node.js Setup

Ready to install Node.js

Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.

The installation is complete, click finish



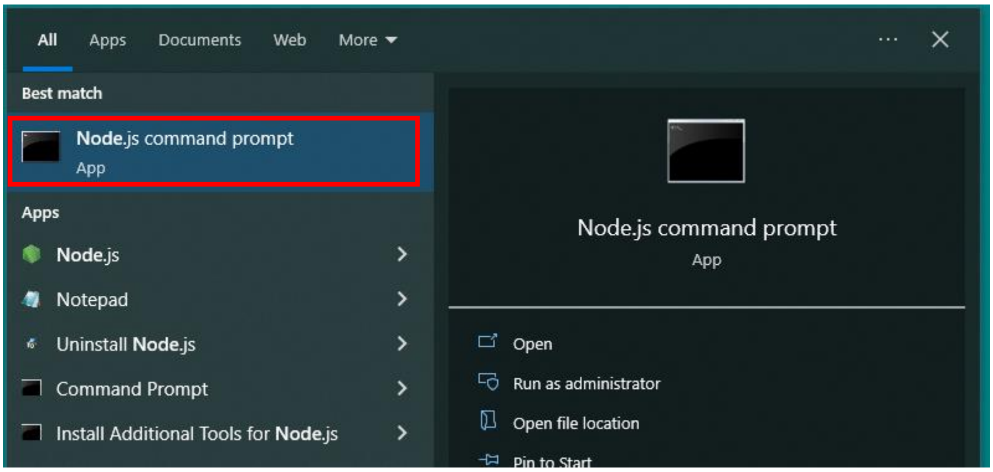
Node.js Setup

Completed the Node.js Setup Wizard

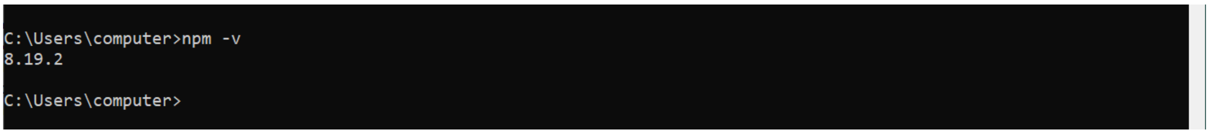
Click the Finish button to exit the Setup Wizard.

Node.js has been successfully installed.

To check your installation, go to the windows start menu and you should have the Node.js command prompt



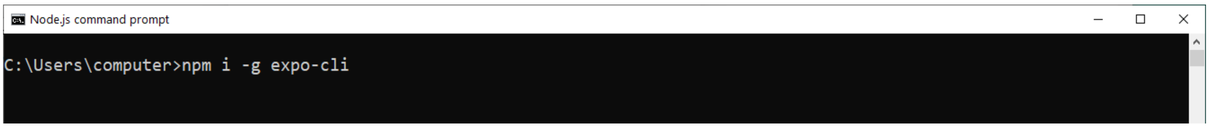
Run ‘npm -v’ to confirm your installation



```
C:\Users\computer>npm -v
8.19.2

C:\Users\computer>
```

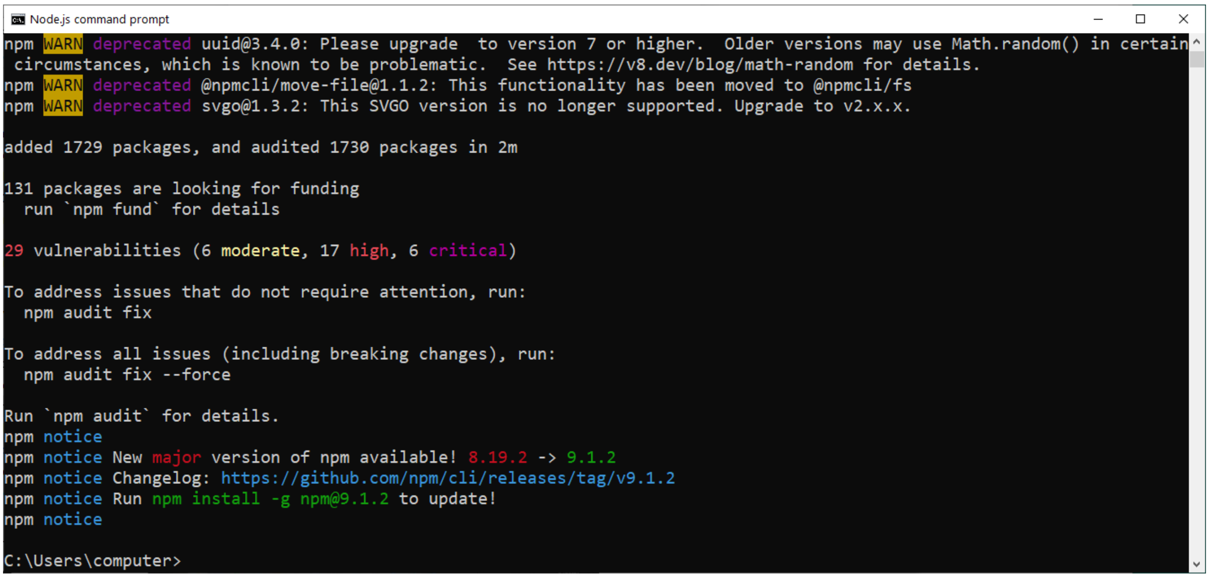
EXPO CLI

Expo is built on top of React Native CLI. The main attraction is the ease of creating React Native apps. To begin, install the expo-cli by opening a Node Js command prompt and execute the following



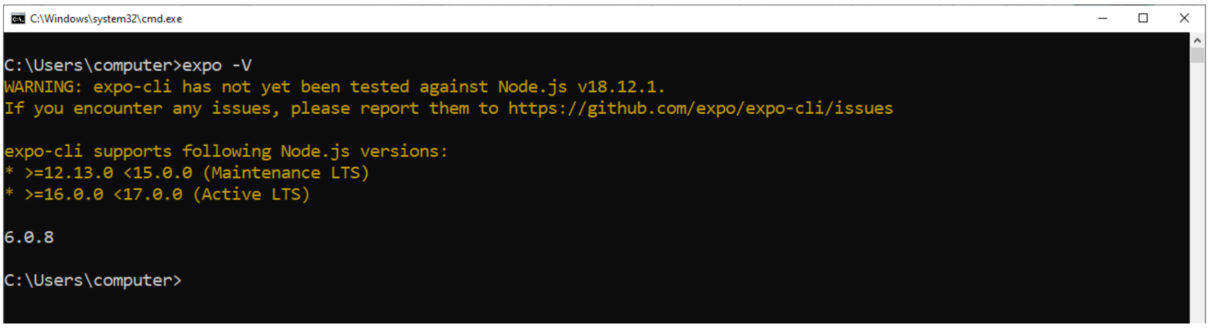
```
C:\Users\computer>npm i -g expo-cli
```

A similar screen should appear. We can ignore the warnings



```
npm WARN deprecated uuid@3.4.0: Please upgrade  to version 7 or higher.  Older versions may use Math.random() in certain
 circumstances, which is known to be problematic.  See https://v8.dev/blog/math-random for details.
npm WARN deprecated @npmcli/move-file@1.1.2: This functionality has been moved to @npmcli/fs
npm WARN deprecated svgo@1.3.2: This SVGO version is no longer supported. Upgrade to v2.x.x.

added 1729 packages, and audited 1730 packages in 2m

131 packages are looking for funding
  run `npm fund` for details

29 vulnerabilities (6 moderate, 17 high, 6 critical)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
npm notice
npm notice New major version of npm available! 8.19.2 -> 9.1.2
npm notice Changelog: https://github.com/npm/cli/releases/tag/v9.1.2
npm notice Run npm install -g npm@9.1.2 to update!
npm notice

C:\Users\computer>
```

Now check your installation using ‘expo -V’

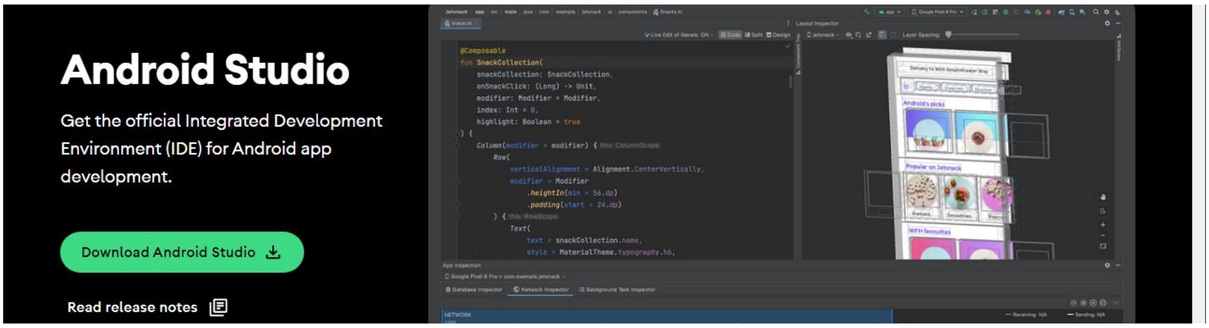


```
C:\Users\computer>expo -V
WARNING: expo-cli has not yet been tested against Node.js v18.12.1.
If you encounter any issues, please report them to https://github.com/expo/expo-cli/issues

expo-cli supports following Node.js versions:
* >=12.13.0 <15.0.0 (Maintenance LTS)
* >=16.0.0 <17.0.0 (Active LTS)

6.0.8

C:\Users\computer>
```

Android Studio

The initial download is ~1Gb. It will then download more packages during installation. We will need this package to check the progress of our application. For Intel users, virtualization needs to be enabled. Check your system information to see if this is already the case. If not, you may have to update your firmware or enable it in the bios. If all is well, after downloading we can do the following

Go to https://developer.android.com/studio accept the agreement, download and run the .exe file

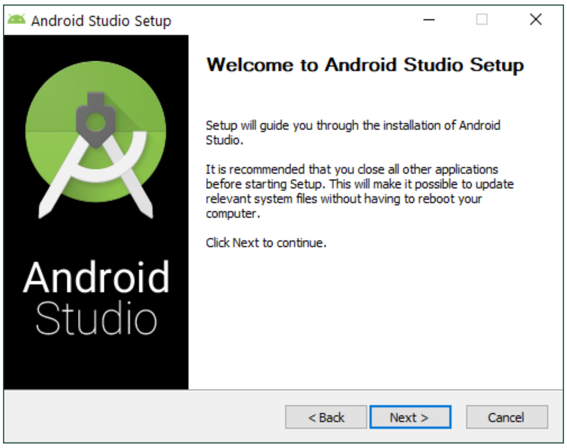


Android Studio

Get the official Integrated Development Environment (IDE) for Android app development.

```
@Composable
fun SnackCollection(
    snackCollection: SnackCollection,
    onSnackClick: (Long) -> Unit,
    modifier: Modifier = Modifier,
    index: Int = 0,
    highlight: Boolean = true
) {
    Column(modifier = modifier) {
        Row(
            verticalAlignment = Alignment.CenterVertically,
            modifier = Modifier
                .heightIn(min = 56.dp)
                .padding(start = 24.dp)
        ) {
            Text(
                text = snackCollection.name,
                style = MaterialTheme.typography.h6,
```

Click next



Android Studio Setup

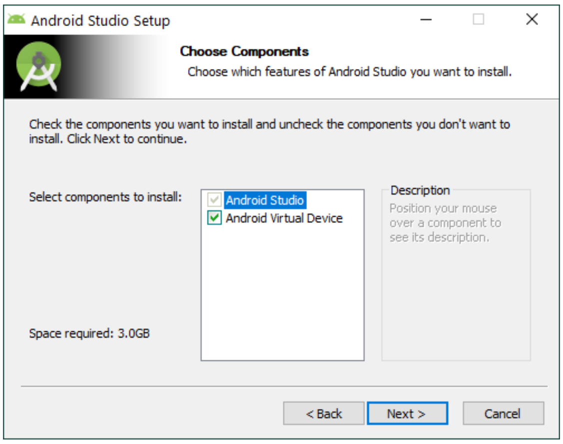
Welcome to Android Studio Setup

Setup will guide you through the installation of Android Studio.

It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.

Click Next to continue.

Click next to accept the default installation



Android Studio Setup

Choose Components

Choose which features of Android Studio you want to install.

Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.

Select components to install:

☑ Android Studio

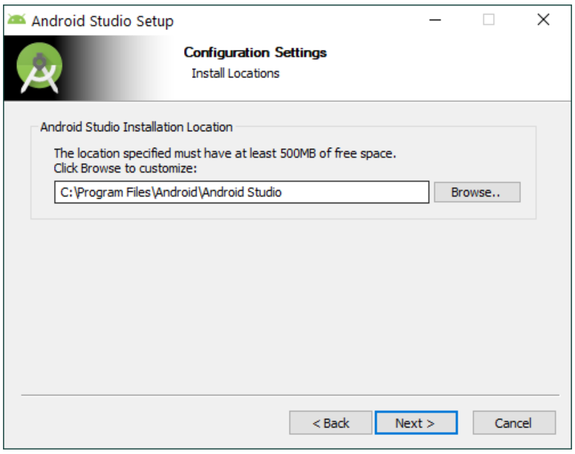
☑ Android Virtual Device

Space required: 3.0GB

Description

Position your mouse over a component to see its description.

Change directory if required and click next



Configuration Settings

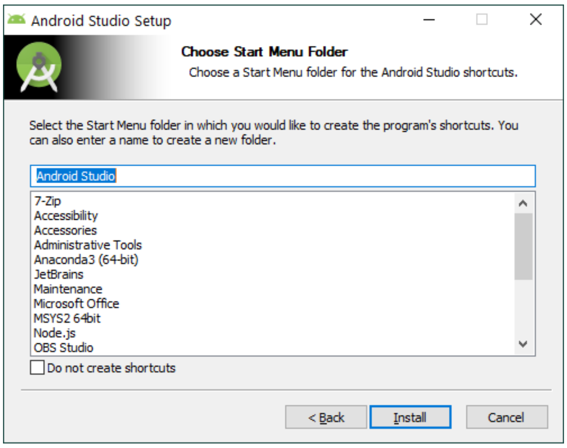
Install Locations

Android Studio Installation Location

The location specified must have at least 500MB of free space.
Click Browse to customize:

C:\Program Files\Android\Android Studio

Click next



Choose Start Menu Folder

Choose a Start Menu folder for the Android Studio shortcuts.

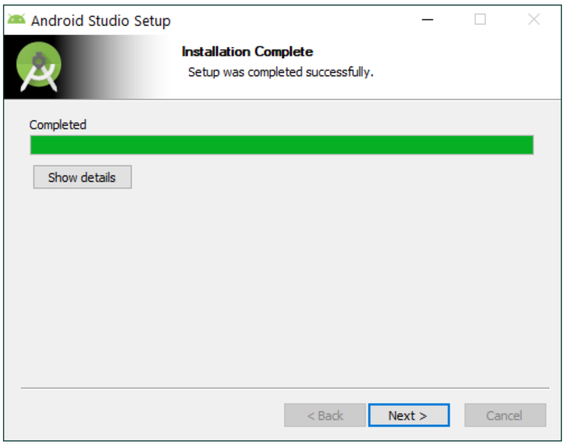
Select the Start Menu folder in which you would like to create the program's shortcuts. You can also enter a name to create a new folder.

Android Studio

7-Zip
Accessibility
Accessories
Administrative Tools
Anaconda3 (64-bit)
JetBrains
Maintenance
Microsoft Office
MSYS2 64bit
Node.js
OBS Studio

□ Do not create shortcuts

Example installation screen, when complete click next

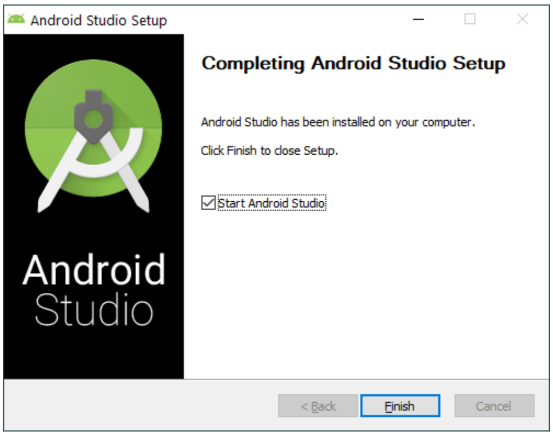


Installation Complete

Setup was completed successfully.

Completed

Click finish



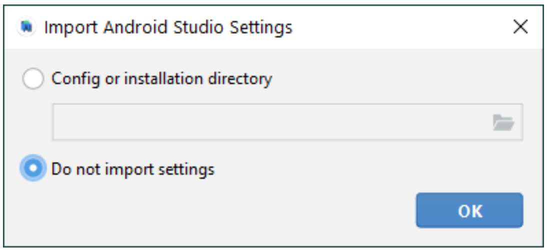
Completing Android Studio Setup

Android Studio has been installed on your computer.

Click Finish to close Setup.

☑ Start Android Studio

Choose default (Do not import anything)

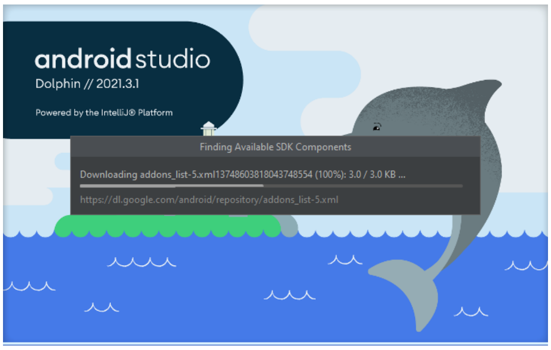


Import Android Studio Settings

○ Config or installation directory

● Do not import settings

Android studio launch screen

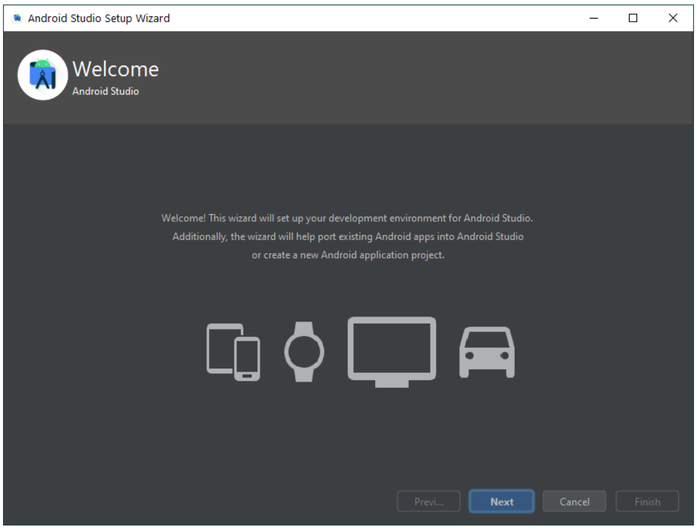


Finding Available SDK Components

Downloading addons_list-5.xml13748603818043748554 (100%): 3.0 / 3.0 KB ...

https://dl.google.com/android/repository/addons_list-5.xml

Choose next

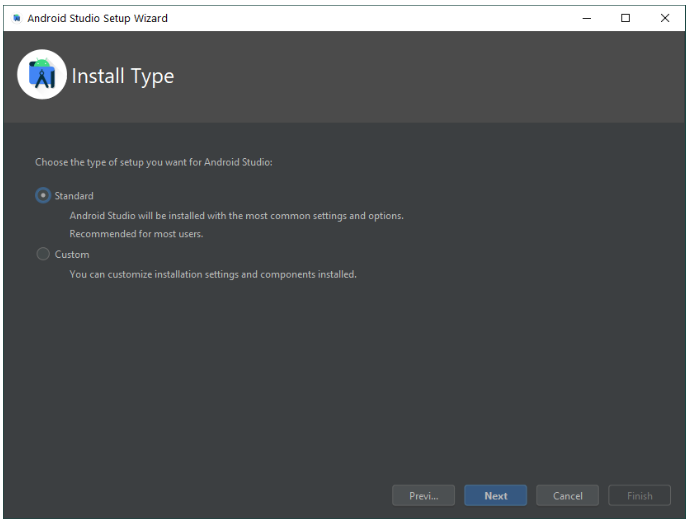


Welcome

Android Studio

Welcome! This wizard will set up your development environment for Android Studio.
Additionally, the wizard will help port existing Android apps into Android Studio
or create a new Android application project.

Choose standard and next



Android Studio Setup Wizard

Install Type

Choose the type of setup you want for Android Studio:

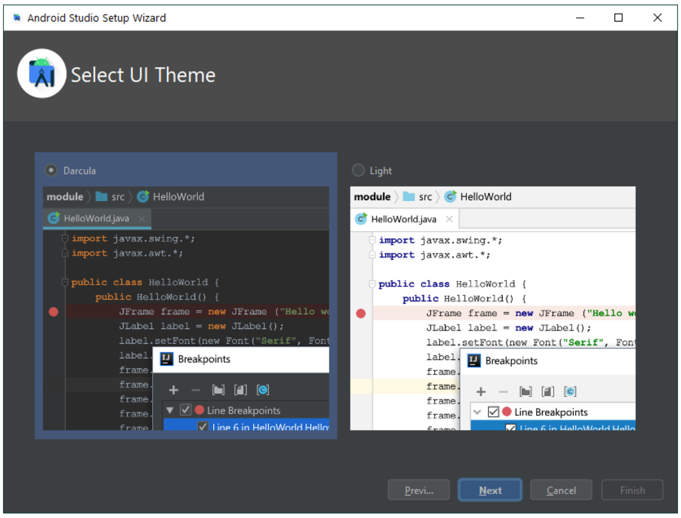
● Standard

Android Studio will be installed with the most common settings and options.
Recommended for most users.

○ Custom

You can customize installation settings and components installed.

Click next



Android Studio Setup Wizard

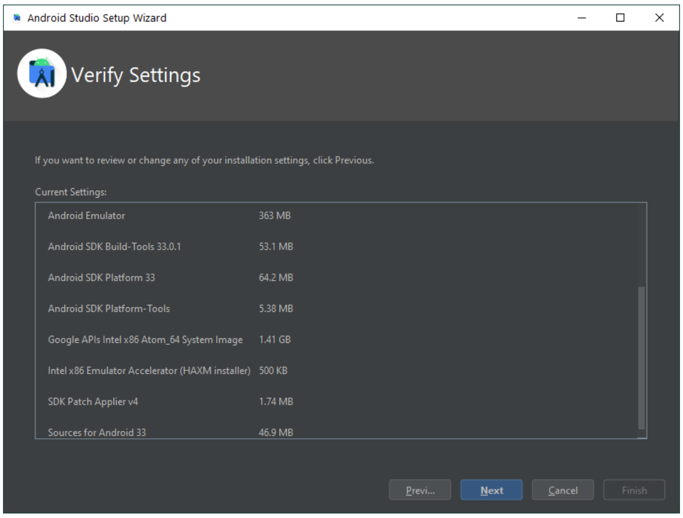
Select UI Theme

● Darcula

○ Light

module
src
HelloWorld
HelloWorld.java
import javax.swing.*;
import javax.awt.*;
public class HelloWorld {
public HelloWorld() {
JFrame frame = new JFrame ("Hello w
JLabel label = new JLabel();
label.setFont(new Font("Serif", Font
Breakpoints
Line Breakpoints
Line 6 in HelloWorld.Hello
Previ...
Next
Cancel
Finish

Click next



Android Studio Setup Wizard

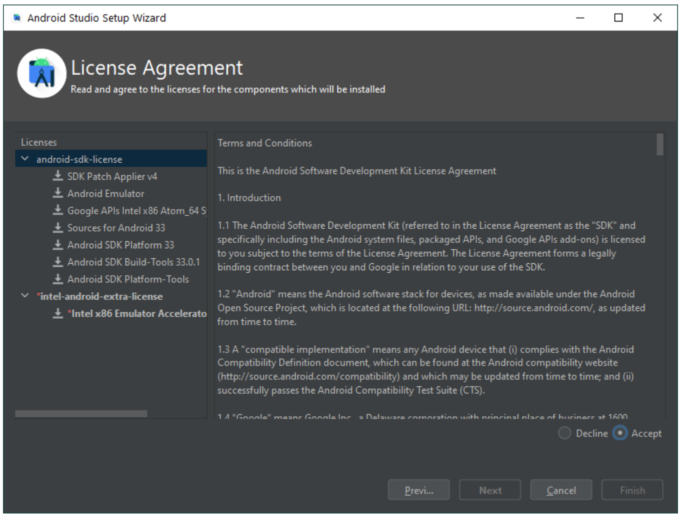
Verify Settings

If you want to review or change any of your installation settings, click Previous.

Current Settings:

Android Emulator	363 MB
Android SDK Build-Tools 33.0.1	53.1 MB
Android SDK Platform 33	64.2 MB
Android SDK Platform-Tools	5.38 MB
Google APIs Intel x86 Atom_64 System Image	1.41 GB
Intel x86 Emulator Accelerator (HAXM installer)	500 KB
SDK Patch Applier v4	1.74 MB
Sources for Android 33	46.9 MB

Accept the terms for the two licenses



Android Studio Setup Wizard
License Agreement
Read and agree to the licenses for the components which will be installed
Licenses
android-sdk-license
SDK Patch Applier v4
Android Emulator
Google APIs Intel x86 Atom_64 S
Sources for Android 33
Android SDK Platform 33
Android SDK Build-Tools 33.0.1
Android SDK Platform-Tools
*intel-android-extra-license
*Intel x86 Emulator Accelerato
○ Decline ● Accept
Previ...
Next
Cancel
Finish

Terms and Conditions

This is the Android Software Development Kit License Agreement

1. Introduction

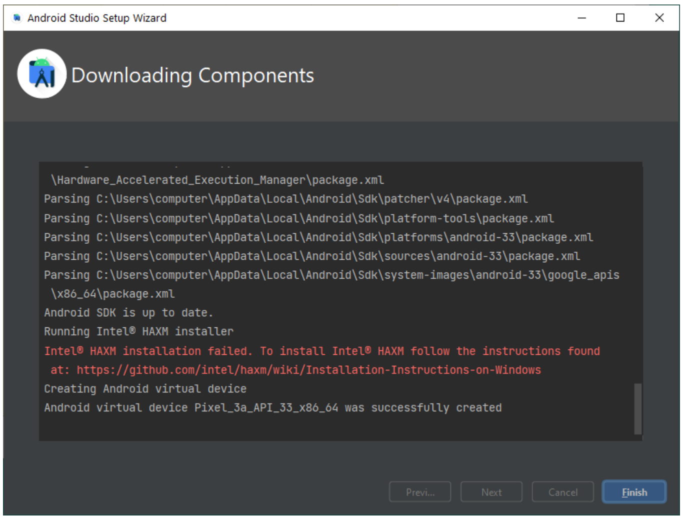
1.1 The Android Software Development Kit (referred to in the License Agreement as the "SDK" and specifically including the Android system files, packaged APIs, and Google APIs add-ons) is licensed to you subject to the terms of the License Agreement. The License Agreement forms a legally binding contract between you and Google in relation to your use of the SDK.

1.2 "Android" means the Android software stack for devices, as made available under the Android Open Source Project, which is located at the following URL: http://source.android.com/, as updated from time to time.

1.3 A "compatible implementation" means any Android device that (i) complies with the Android Compatibility Definition document, which can be found at the Android compatibility website (http://source.android.com/compatibility) and which may be updated from time to time; and (ii) successfully passes the Android Compatibility Test Suite (CTS).

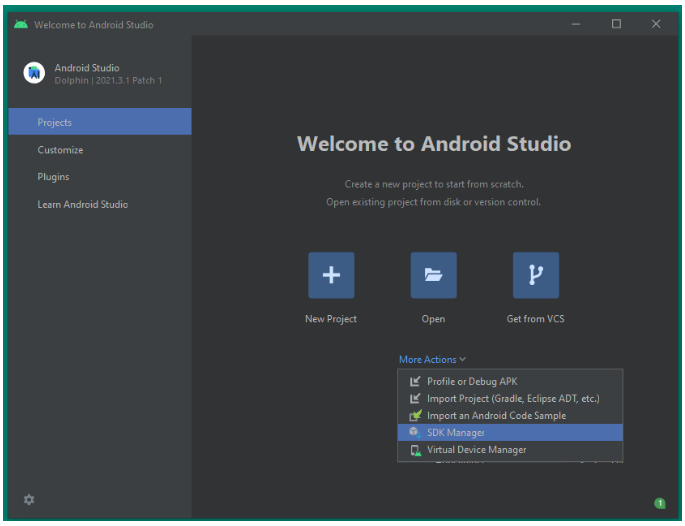
1.4 "Google" means Google Inc., a Delaware corporation with principal place of business at 1600

The warning is applicable for those who have intel chip that may not have configured virtualization. Click finish



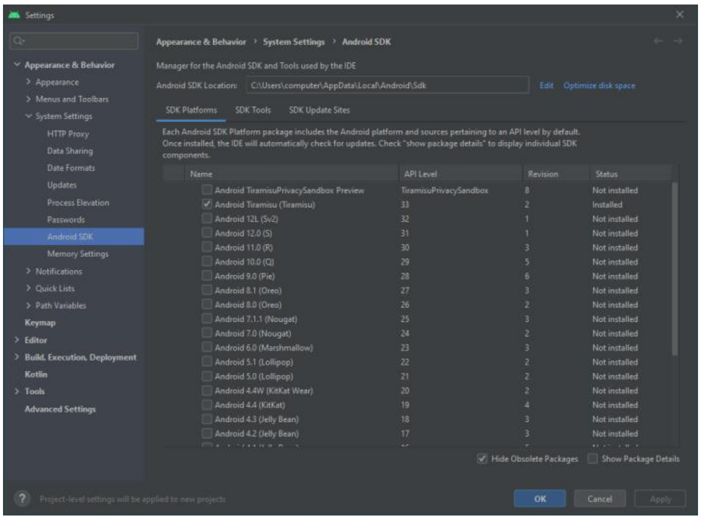
```
 \Hardware_Accelerated_Execution_Manager\package.xml
Parsing C:\Users\computer\AppData\Local\Android\Sdk\patcher\v4\package.xml
Parsing C:\Users\computer\AppData\Local\Android\Sdk\platform-tools\package.xml
Parsing C:\Users\computer\AppData\Local\Android\Sdk\platforms\android-33\package.xml
Parsing C:\Users\computer\AppData\Local\Android\Sdk\sources\android-33\package.xml
Parsing C:\Users\computer\AppData\Local\Android\Sdk\system-images\android-33\google_apis
 \x86_64\package.xml
Android SDK is up to date.
Running Intel® HAXM installer
Intel® HAXM installation failed. To install Intel® HAXM follow the instructions found
 at: https://github.com/intel/haxm/wiki/Installation-Instructions-on-Windows
Creating Android virtual device
Android virtual device Pixel_3a_API_33_x86_64 was successfully created
```

From more options dropdown, choose the SDK manager



Welcome to Android Studio
Android Studio
Dolphin | 2021.3.1 Patch 1
Projects
Customize
Plugins
Learn Android Studio
Welcome to Android Studio
Create a new project to start from scratch.
Open existing project from disk or version control.
New Project
Open
Get from VCS
More Actions
Profile or Debug APK
Import Project (Gradle, Eclipse ADT, etc.)
Import an Android Code Sample
SDK Manager
Virtual Device Manager

Leave defaults, click ok



Appearance & Behavior › System Settings › Android SDK

Manager for the Android SDK and Tools used by the IDE

Android SDK Location: C:\Users\computer\AppData\Local\Android\Sdk

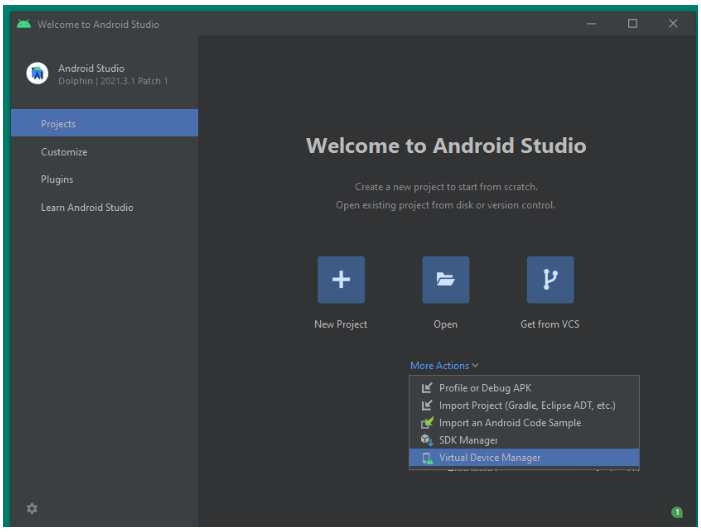
Each Android SDK Platform package includes the Android platform and sources pertaining to an API level by default. Once installed, the IDE will automatically check for updates. Check "show package details" to display individual SDK components.

Name	API Level	Revision	Status
□ Android TiramisuPrivacySandbox Preview	TiramisuPrivacySandbox	8	Not installed
☑ Android Tiramisu (Tiramisu)	33	2	Installed
□ Android 12L (Sv2)	32	1	Not installed
□ Android 12.0 (S)	31	1	Not installed
□ Android 11.0 (R)	30	3	Not installed
□ Android 10.0 (Q)	29	5	Not installed
□ Android 9.0 (Pie)	28	6	Not installed
□ Android 8.1 (Oreo)	27	3	Not installed
□ Android 8.0 (Oreo)	26	2	Not installed
□ Android 7.1.1 (Nougat)	25	3	Not installed
□ Android 7.0 (Nougat)	24	2	Not installed
□ Android 6.0 (Marshmallow)	23	3	Not installed
□ Android 5.1 (Lollipop)	22	2	Not installed
□ Android 5.0 (Lollipop)	21	2	Not installed
□ Android 4.4W (KitKat Wear)	20	2	Not installed
□ Android 4.4 (KitKat)	19	4	Not installed
□ Android 4.3 (Jelly Bean)	18	3	Not installed
□ Android 4.2 (Jelly Bean)	17	3	Not installed

☑ Hide Obsolete Packages □ Show Package Details

Project-level settings will be applied to new projects

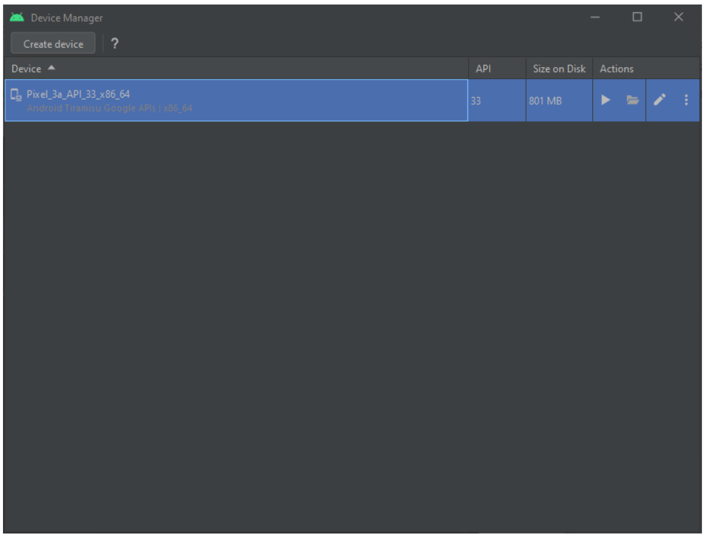
Choose 'Virtual Device Manager'



Welcome to Android Studio

Create a new project to start from scratch.
Open existing project from disk or version control.

Click the play icon and a virtual Pixel should appear (it may take awhile)

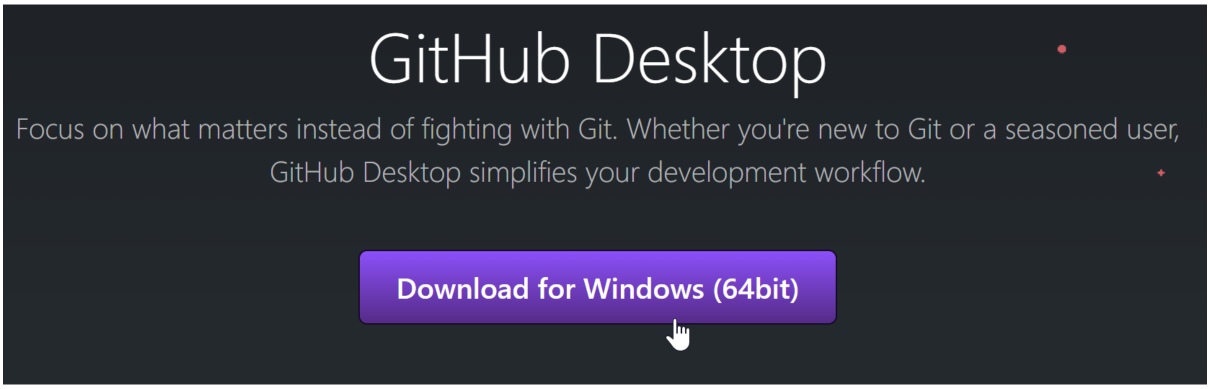


Device	API	Size on Disk
Pixel_3a_API_33_x86_64 Android Tiramisu Google APIs | x86_64	33	801 MB

Repository setup

Setting up GIT

Download GitHub desktop from here: https://desktop.github.com/

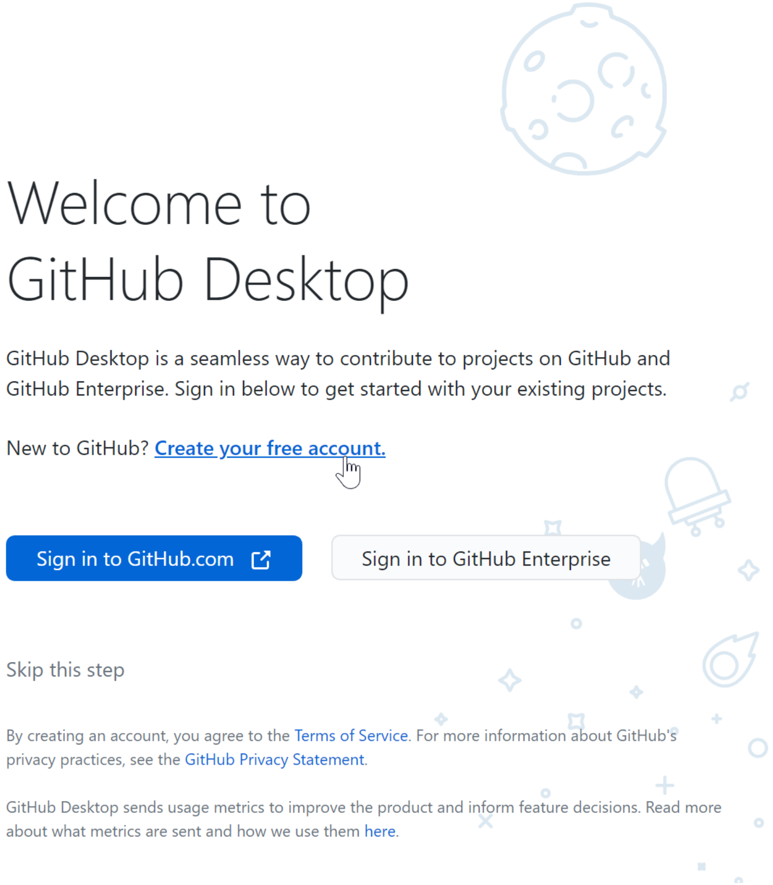


GitHub Desktop

Focus on what matters instead of fighting with Git. Whether you're new to Git or a seasoned user, GitHub Desktop simplifies your development workflow.

Open the file that you just downloaded to begin installation.

During installation you will be prompted to login. If you do not already have an account, then you can create a free one.



Welcome to
GitHub Desktop

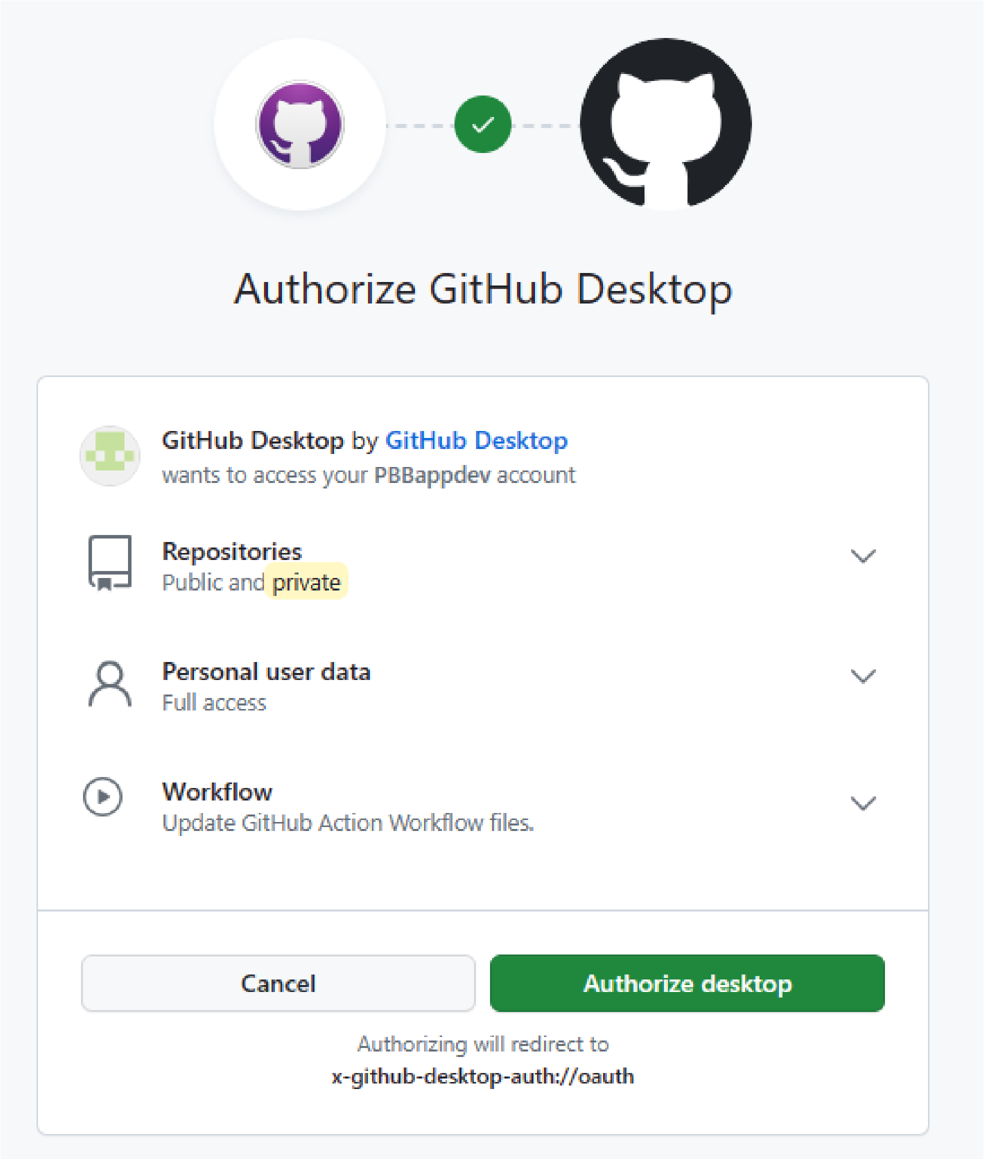
GitHub Desktop is a seamless way to contribute to projects on GitHub and GitHub Enterprise. Sign in below to get started with your existing projects.

New to GitHub? Create your free account.

By creating an account, you agree to the Terms of Service. For more information about GitHub's privacy practices, see the GitHub Privacy Statement.

GitHub Desktop sends usage metrics to improve the product and inform feature decisions. Read more about what metrics are sent and how we use them here.

After logging in to GitHub, there is a prompt, Choose – Authorize Desktop



Authorize GitHub Desktop

GitHub Desktop by GitHub Desktop
wants to access your PBBappdev account

Repositories
Public and private

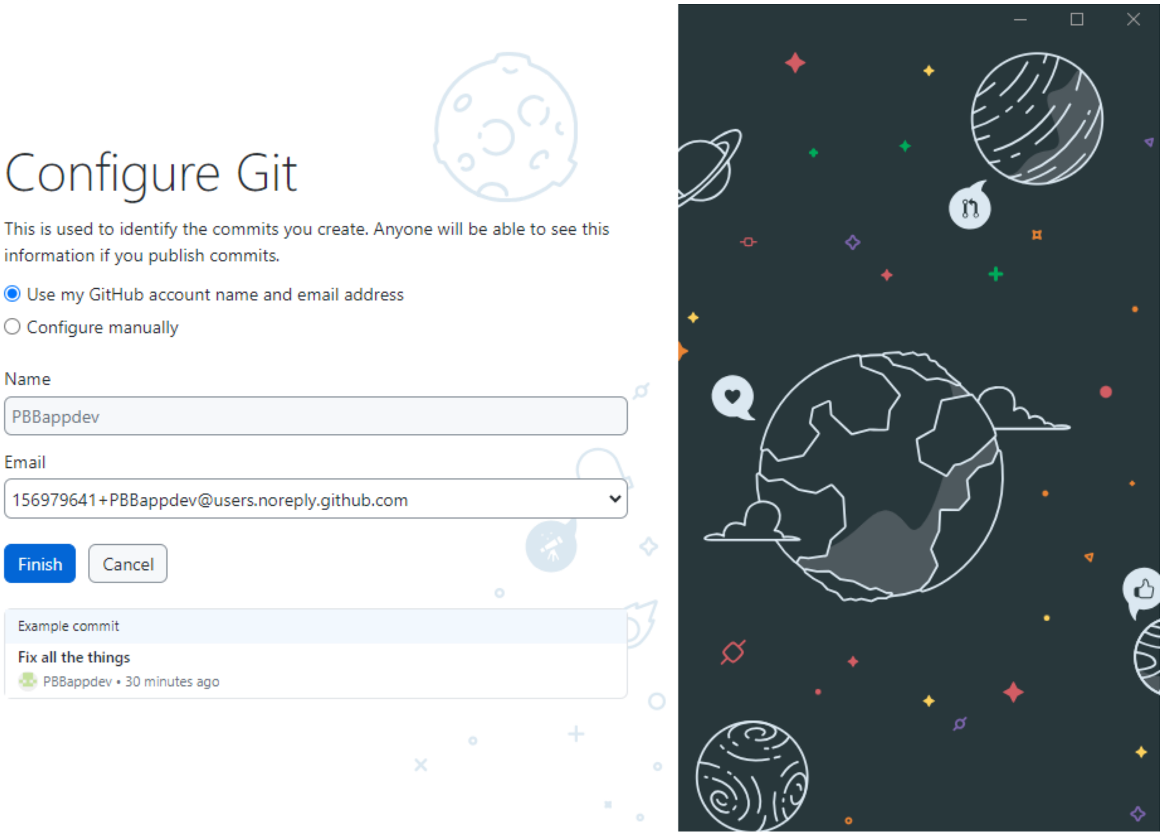
Personal user data
Full access

Workflow
Update GitHub Action Workflow files.

Authorizing will redirect to
x-github-desktop-auth://oauth

Then a prompt to LAUNCH GITHUB DESKTOP

Then, click FINISH



Configure Git

This is used to identify the commits you create. Anyone will be able to see this information if you publish commits.

● Use my GitHub account name and email address

○ Configure manually

Name: PBBappdev

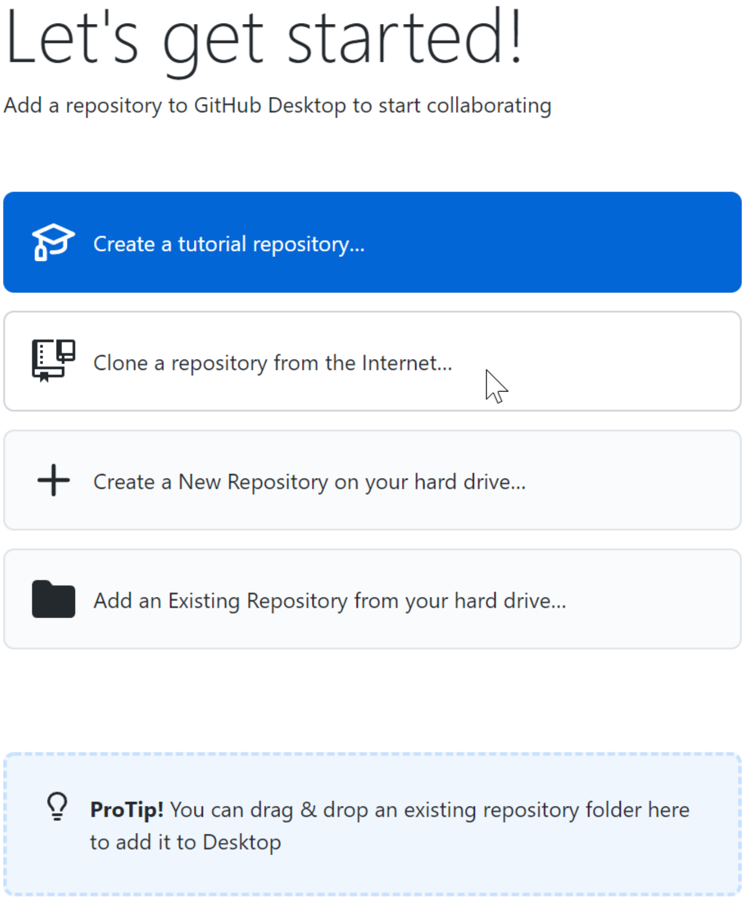
Email: 156979641+PBBappdev@users.noreply.github.com

Example commit

Fix all the things

PBBappdev • 30 minutes ago

Once logged in, choose the option to clone a repository from the internet.



Let's get started!

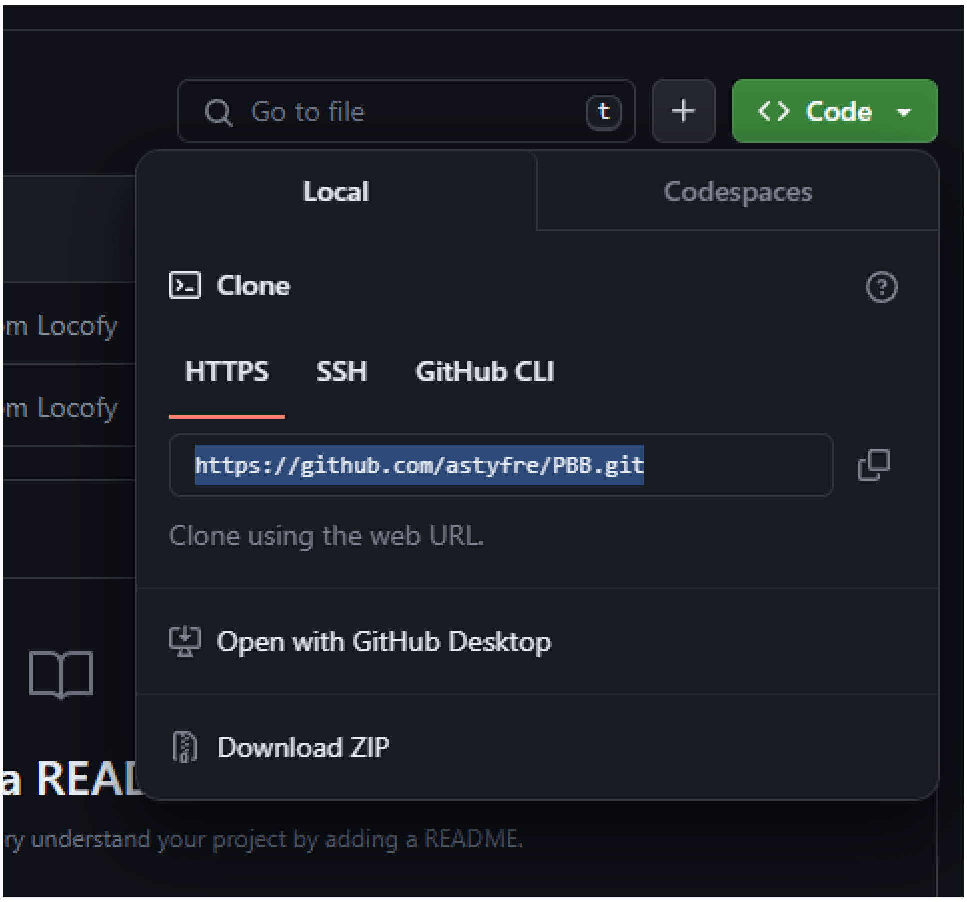
Add a repository to GitHub Desktop to start collaborating

Create a tutorial repository...
Clone a repository from the Internet...
Create a New Repository on your hard drive...
Add an Existing Repository from your hard drive...

ProTip! You can drag & drop an existing repository folder here to add it to Desktop

Now visit the GitHub repository here:
https://github.com/astyfre/PBB

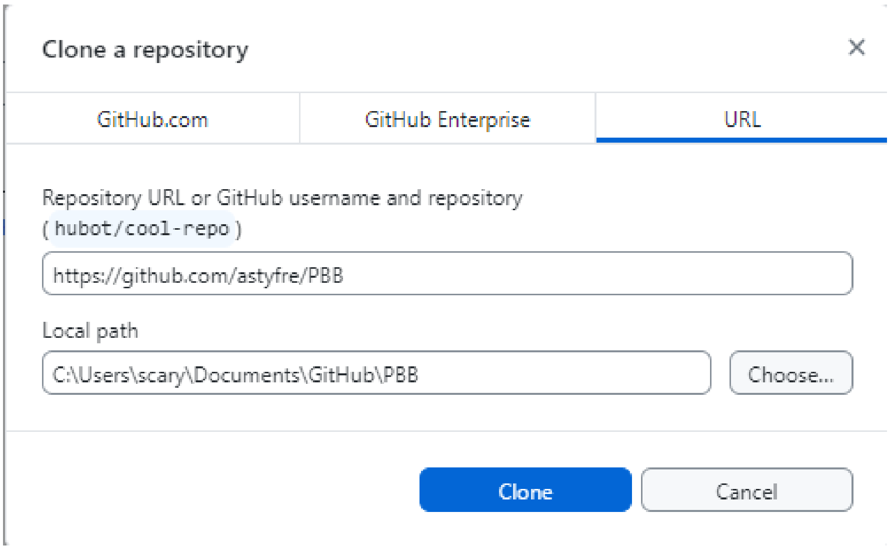
Select Open with Github desktop and choose the file location you would like to store the app files.



https://github.com/astyfre/PBB.git

Clone using the web URL.

Select the URL Tab



Repository URL or GitHub username and repository (hubot/cool-repo)

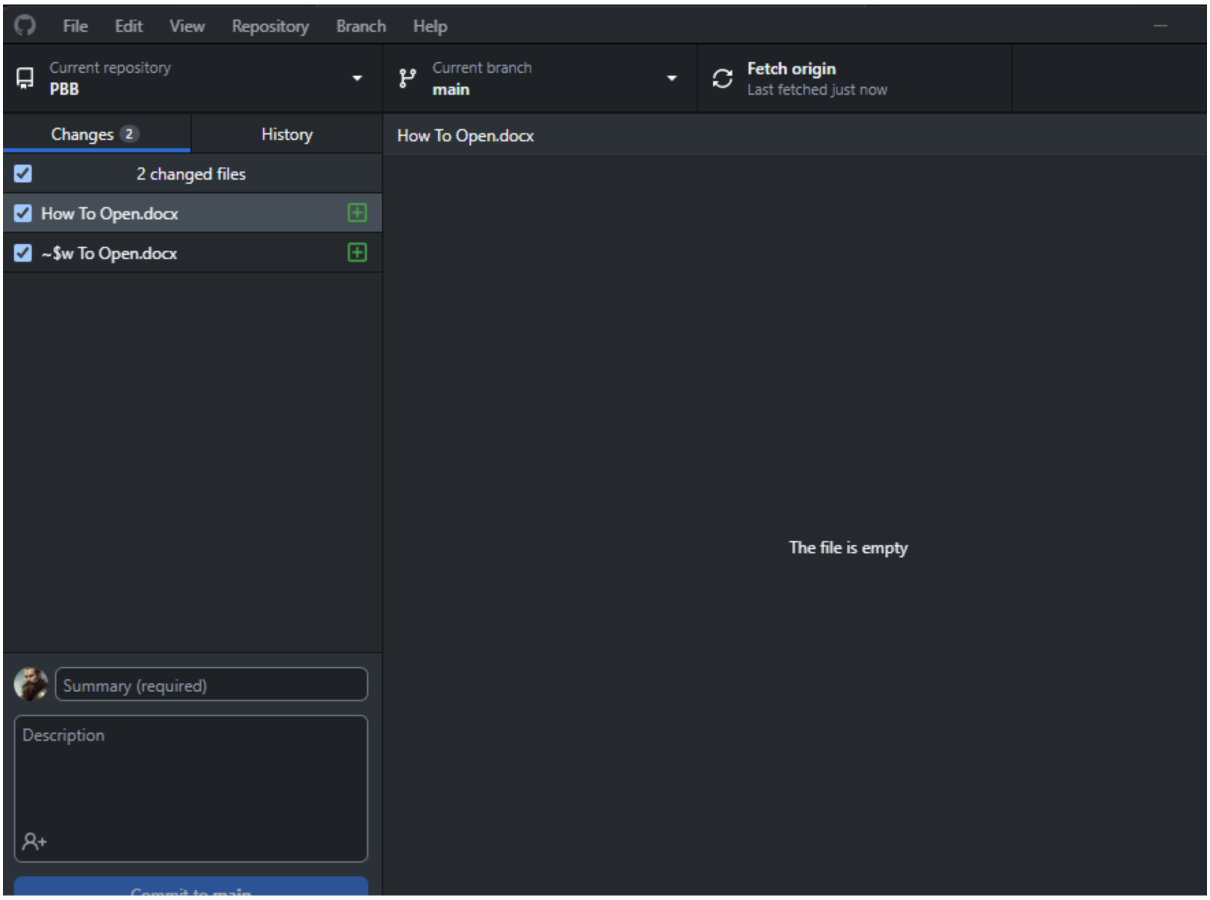
https://github.com/astyfre/PBB

Local path

C:\Users\scary\Documents\GitHub\PBB

and enter the repository "https://github.com/astyfre/PBB" click CLONE

You should now have the repository open in GitHub desktop:



Current repository PBB

Current branch main

Last fetched just now

How To Open.docx

2 changed files

☑ How To Open.docx

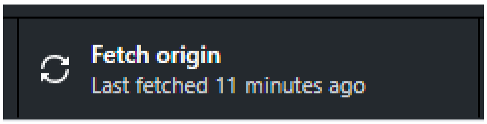
☑ ~$w To Open.docx

The file is empty

Opening Project

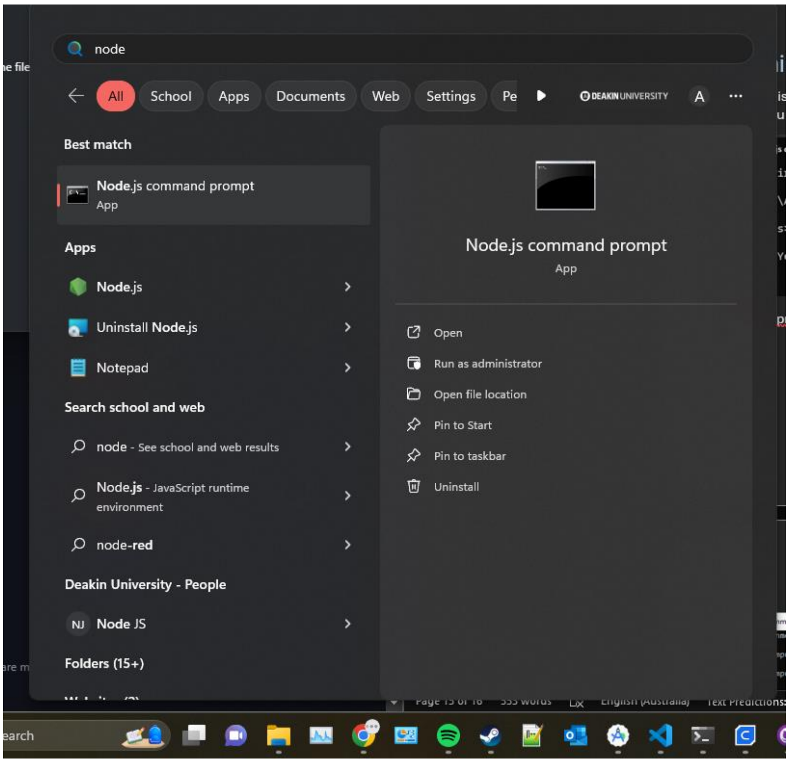
BEFORE OPENING:

To check for updates to the app open the github Desktop application and click the fetch origin button

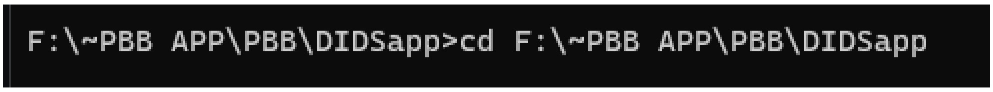


Last fetched 11 minutes ago

Now to open the app. This part is straightforward. Launch a Node.js command prompt and move into the directory where you are storing the DIDS application.

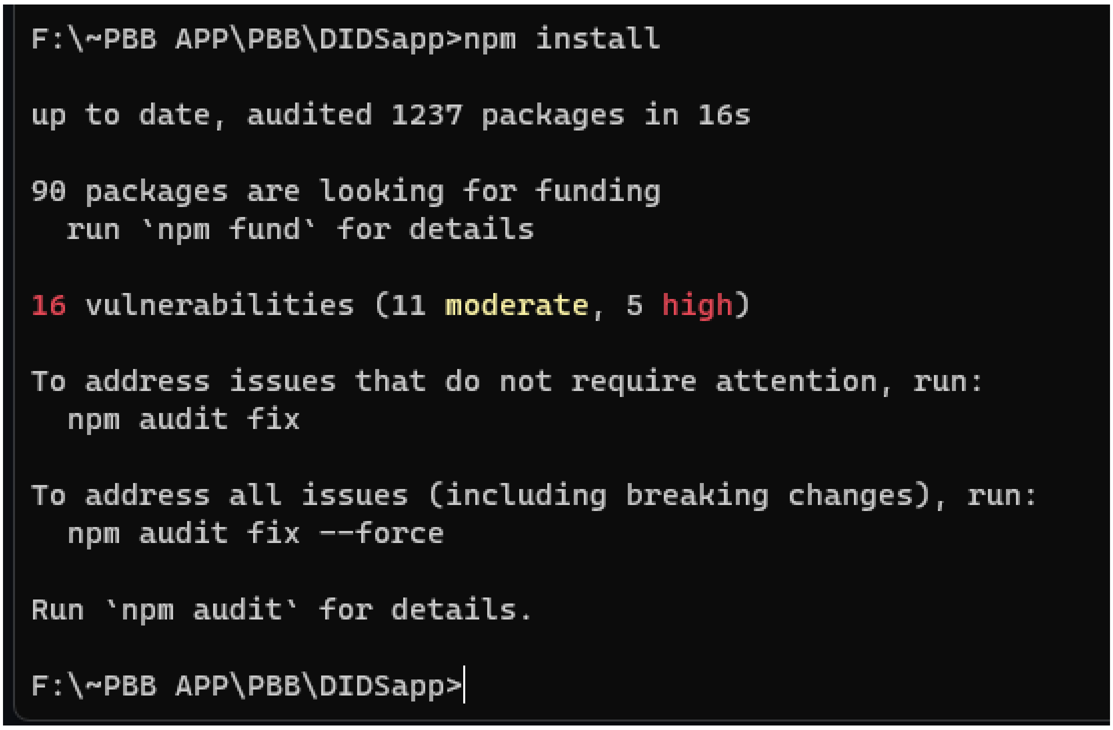


- eg, cd \~PBB APP\PBB\DIDSapp



```
F:\~PBB APP\PBB\DIDSapp>cd F:\~PBB APP\PBB\DIDSapp
```

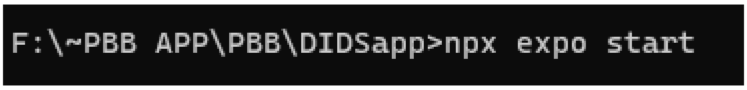
- npm install



```
F:\~PBB APP\PBB\DIDSapp>npm install

up to date, audited 1237 packages in 16s

90 packages are looking for funding
  run `npm fund` for details

16 vulnerabilities (11 moderate, 5 high)

To address issues that do not require attention, run:
  npm audit fix

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.

F:\~PBB APP\PBB\DIDSapp>
```

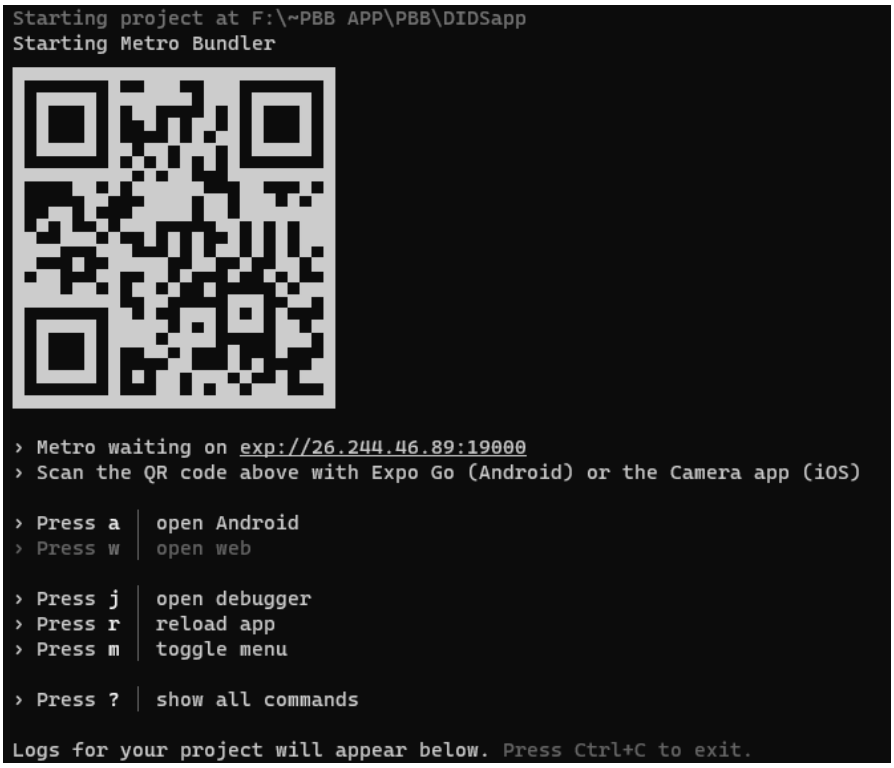
Now start the Android Studio emulator and run the following command.

- npx expo start

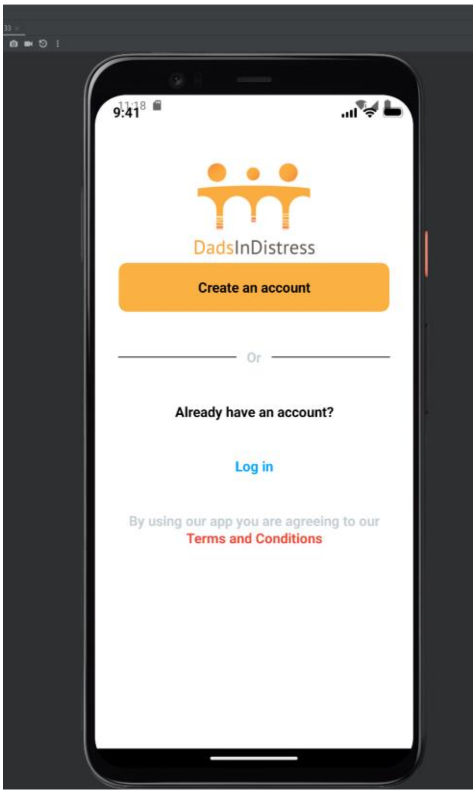


```
F:\~PBB APP\PBB\DIDSapp>npx expo start
```

Press ‘a’ to start android



```
Starting project at F:\~PBB APP\PBB\DIDSapp
Starting Metro Bundler

› Metro waiting on exp://26.244.46.89:19000
› Scan the QR code above with Expo Go (Android) or the Camera app (iOS)

› Press a │ open Android
› Press w │ open web

› Press j │ open debugger
› Press r │ reload app
› Press m │ toggle menu

› Press ? │ show all commands

Logs for your project will appear below. Press Ctrl+C to exit.
```



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