

Installation and setup

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Installation:

Assuming that the majority of students use Windows on personal computer, all hands-on tutorials and exercises will be performed on Windows platform.

1. Install Google Chrome - <https://www.google.com/chrome>
2. Install PowerShell 7 - <https://docs.microsoft.com/en-us/powershell/scripting/install/installing-powershell-core-on-windows?view=powershell-7.1>
3. Install latest Android Studio SDK from <https://developer.android.com/studio>
4. Download latest Flutter SDK (just download and unzip the files) - <https://flutter.dev/docs/get-started/install>
5. Install Visual Studio Code - <https://code.visualstudio.com/download>
6. Install Git - <https://git-scm.com/download/win>

Setup (Windows):

Step 1: (Only relevant for Windows. Unix/MacOS users should lookup command up 'export PATH ...' on the Internet)

Update your path

If you wish to run Flutter commands in the regular Windows console, take these steps to add Flutter to the **PATH** environment variable:

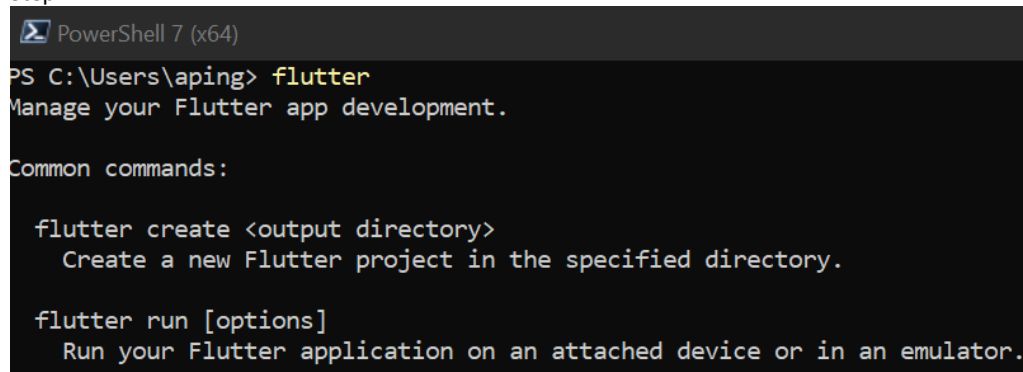
- From the Start search bar, enter 'env' and select **Edit environment variables for your account**.
- Under **User variables** check if there is an entry called **Path**:
 - If the entry exists, append the full path to **flutter\bin** using **;** as a separator from existing values.
 - If the entry doesn't exist, create a new user variable named **Path** with the full path to **flutter\bin** as its value.

You have to close and reopen any existing console windows for these changes to take effect.

Step 2: Reopen Powershell 7 after performing the aforementioned steps

Step3: Run the command 'flutter' from any location in the powershell to confirm the correct setting of environment variable.

Step 4:



```
PowerShell 7 (x64)
PS C:\Users\aping> flutter
Manage your Flutter app development.

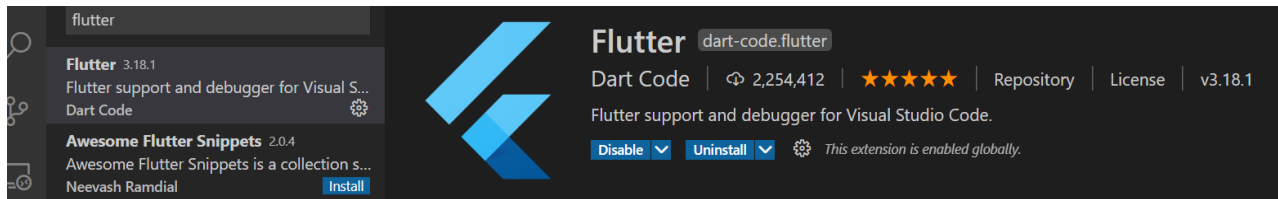
Common commands:

flutter create <output directory>
    Create a new Flutter project in the specified directory.

flutter run [options]
    Run your Flutter application on an attached device or in an emulator.
```

Step 5: Install Flutter extension in VS Code



**Step 6:**

Run "flutter doctor" command from powershell. For web apps development , neglect the warning (if you see) about Android Studio.

Step 7:

Run the following three commands one followed by the other from powershell. More details - <https://flutter.dev/docs/get-started/web>

```
flutter channel beta
```

```
flutter upgrade
```

```
flutter config --enable-web
```

Step 8:

Run 'flutter devices' command from powershell. Assuming Google Chrome is installed, you should see at least 'Google Chrome' as a 'device'.