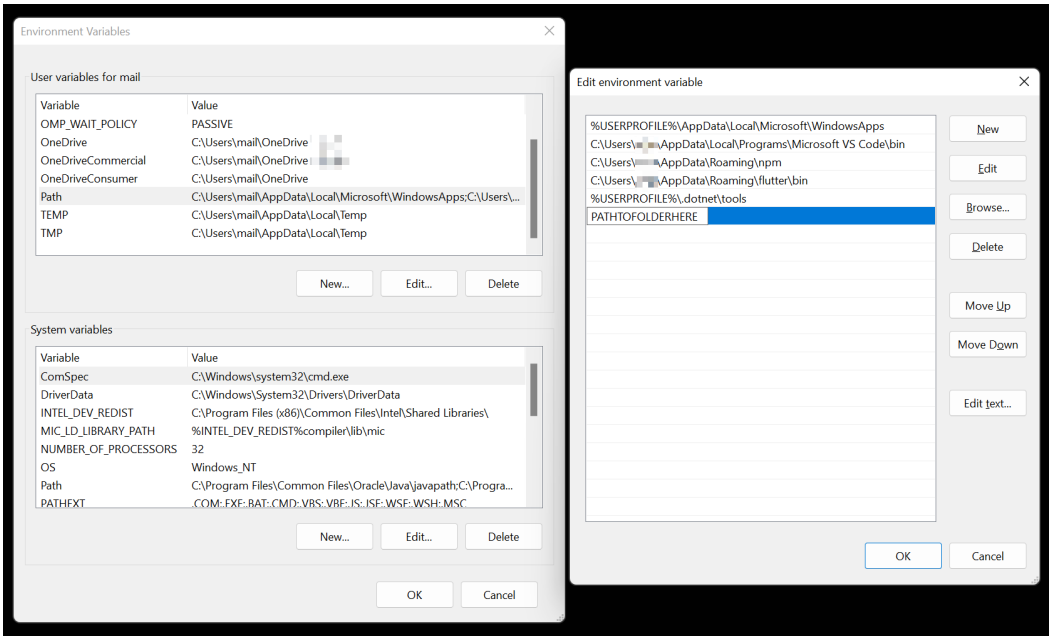
Installation process for Windows

This guide is for setting up a Flutter environment to test mobile applications with Android Studio. This guide uses Visual Studio Code with the Flutter extension.

Install Flutter SDK

1. Download the source code for flutter: [Windows install | Flutter]
2. Extract the .zip file in a persistant location (e.g. C:\src\flutter).
3. Create new environment variable entry with the path to flutter\bin folder.
   1. Open "Edit the system environment variables".
   2. Click on "Environment Variables".
   3. Add new entry to "PATH" Variable:



Test installation

1. Open new Terminal window.
2. Type "flutter -v".

If this returns an error you have to search specifically for the message. Otherwise you have completed the installation successfully.

Install Android Studio

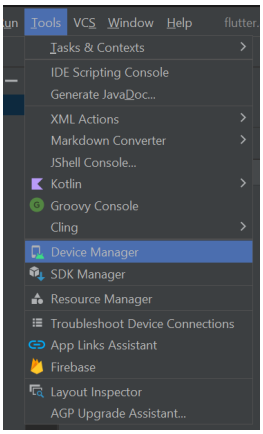
To install Android Studio you can use the winget CLI tool. Just copy the following command into a terminal session.

```
winget install --id=Google.AndroidStudio  -e
```

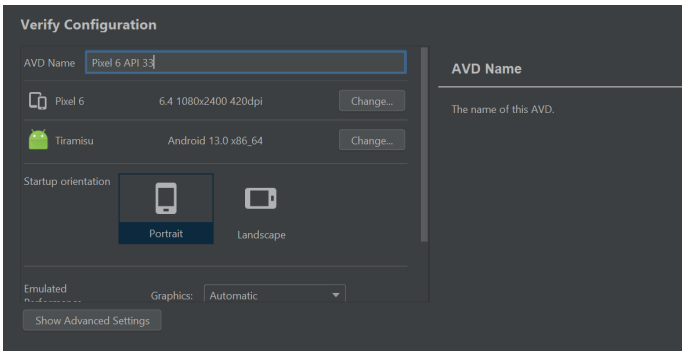
After the installation was successful you find "Android Studio" as a new App in start menu.

Create new device

Open Android Studio and choose "Device Manager".

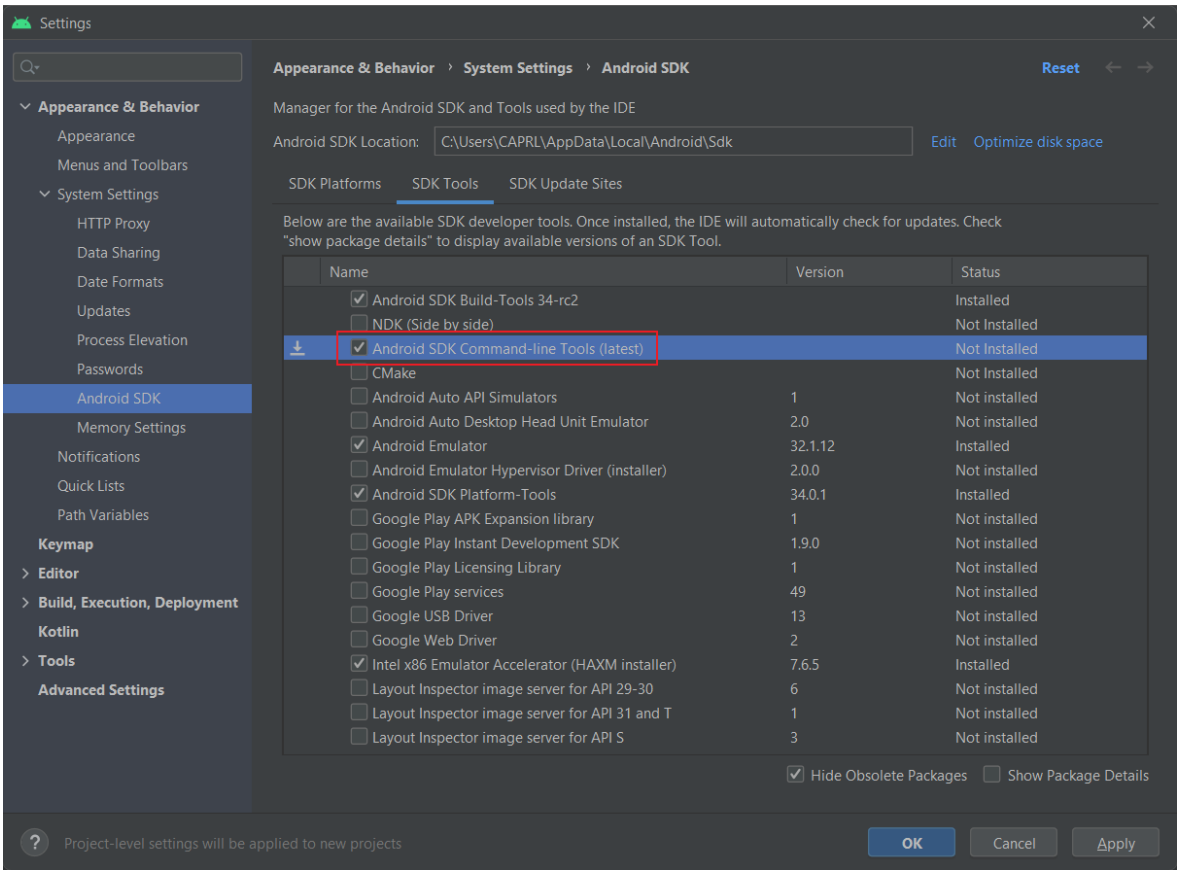


Then create a new device with the newest available Hardware and Android version. After giving a name to the device you can start this VM via the Device Manager and use it like a physical device.



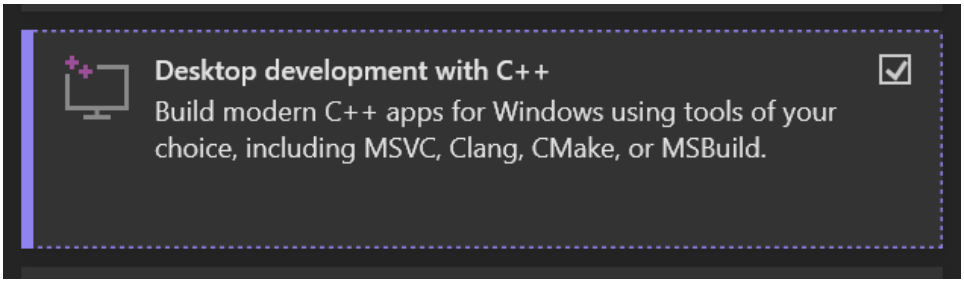
Enable Android SDK Build-Tools

1. Open Android Studio
2. Tools Menu, SDK Manager
3. In the window that comes up there are inner panels, choose **SDK Tools** panel
4. Tick **Android SDK Command-line Tools**
5. Choose **Apply** button near the bottom of the window



Install Visual Studio

1. Download the community edition from the official website: [Visual Studio-Tools herunterladen: Kostenlose Installation für Windows, Mac, Linux (microsoft.com)]
2. Run the installation and select the following Workload:



Install Java

The Java Virtual Runtime can also be installed via winget. Just type this command and wait for the installation to finish.

```
winget install --id=Oracle.JDK.18  -e
```

Check Flutter setup

To check the flutter dependencies the following command can be used. If there are still some errors, you can search the internet for the messages.

```
flutter doctor -v
```

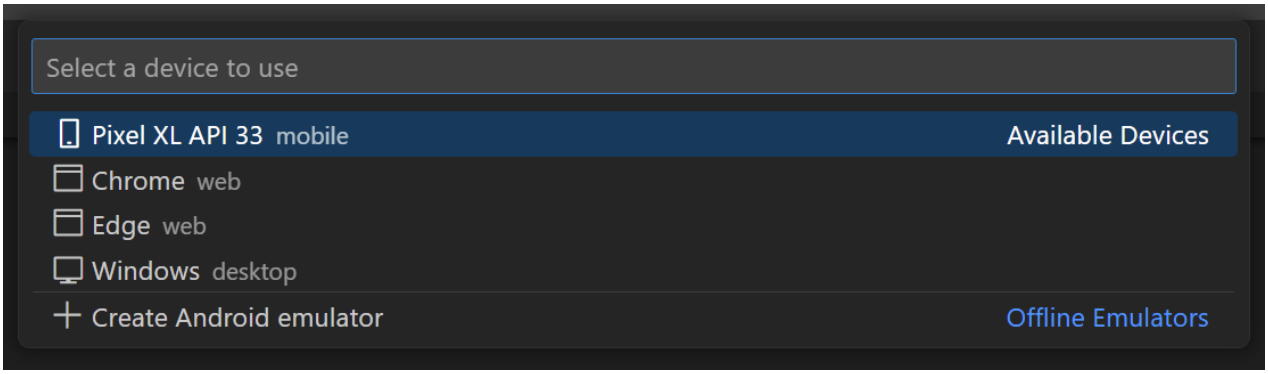
Create blank project

The basic structure of a flutter project can be created using the following command. The name of the project can also be specified here.

```
flutter create --org ch.lucanoahcaprez mynewflutterapp
```

Run app code

To run the app code you first have to select the previously created virtual Android device. Click "No Devices" in the bottom right corner of VS Code. There you can select the virtual Android device.



The only thing left to do now is to enter the execution command:

```
flutter run
```

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