# How to Install Flutter on Windows

## 1. System Requirements

Ensure your system meets the minimum requirements:

- Operating System: Windows 10 or later (64-bit).

- Disk Space: 1.64 GB (not including space for IDE/tools).

- Tools: Git for Windows (with Git in PATH).

## 2. Download the Flutter SDK

Go to the Flutter SDK download page: https://docs.flutter.dev/get-started/install.

Download the Flutter Windows zip file.

Extract the zip file to a desired location, e.g., C:\flutter. Avoid installing Flutter in a directory requiring elevated privileges, like C:\Program Files.

## 3. Add Flutter to the System Path

Open File Explorer, right-click on This PC or My Computer, and select Properties.

Select Advanced system settings, then Environment Variables.

Under System variables, find and select the Path variable, then click Edit.

Click New and add the path to the Flutter bin directory, e.g., C:\flutter\bin.

Click OK to save the changes.

## 4. Verify the Installation

Open a Command Prompt or PowerShell.

Run the following command to check if Flutter is installed:

flutter --version

## 5. Install Android Studio

Flutter requires the Android SDK to build Android apps.

Download Android Studio from https://developer.android.com/studio.

During installation, check the boxes to install the Android SDK, Android SDK Platform, Android Virtual Device (AVD), and any other necessary tools.

Once installed, open Android Studio and go to Settings > System Settings > Android SDK to install additional SDK platforms if needed.

## 6. Set Up Android Device (Optional)

You can run Flutter apps on an Android emulator or a physical device.

To set up an emulator, go to Tools > AVD Manager in Android Studio and create a new virtual device.

## 7. Run Flutter Doctor

Open a terminal and run:

flutter doctor

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## 8. Install Visual Studio Code (Optional)

VS Code is a popular code editor for Flutter development.

Download and install it from https://code.visualstudio.com/.

Open Extensions in VS Code and install the Flutter and Dart plugins for code completion, debugging, and other features.

## 9. Create a Test Flutter Project

Open a terminal and run:

flutter create my\_flutter\_app

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