

## Step-by-Step Guide to Dart and Flutter Installation

Hey there! Ready to dive into the world of mobile app development with Dart and Flutter? Fantastic! Let's get you set up step-by-step. Whether you're on Windows, macOS, or Linux, I've got you covered. Let's get started!

### Step 1: Installing Dart

First things first, let's get Dart installed. Dart is the programming language used by Flutter.

#### For Windows Users:

- 1. Download the Dart SDK:**
  - Head over to the Dart SDK Downloads page.
  - Download the Dart SDK for Windows.
- 2. Extract the SDK:**
  - Extract the downloaded ZIP file to a location of your choice (e.g., C:\Dart).
- 3. Update Your PATH:**
  - Open the Start Search, type in "environment", and select "Edit the system environment variables."
  - In the System Properties window, click on the "Environment Variables" button.
  - In the Environment Variables window, under "System variables," find the "Path" variable, select it, and click "Edit."
  - Click "New" and add the path to the Dart SDK (e.g., C:\Dart\dart-sdk\bin).
  - Click OK on all the windows to apply the changes.
- 4. Verify Installation:**
  - Open Command Prompt and type:  
  

```
dart --version
```

  
  - You should see the Dart version printed.

#### For macOS Users:

- 1. Install Homebrew:**
  - If you don't have Homebrew installed, open Terminal and run:  
  

```
/bin/ -c "$(curl -fsSL  
https://raw.githubusercontent.com/Homebrew/install/HEAD/install  
.sh)"
```
- 2. Install Dart:**
  - Once Homebrew is installed, run:  
  

```
brew tap dart-lang/dart  
brew install dart
```

### 3. Verify Installation:

- In Terminal, type:

```
dart --version
```

- You should see the Dart version printed.

## For Linux Users:

### 1. Add the Dart APT Repository:

- Open Terminal and run:

```
sudo apt update
sudo apt install apt-transport-https
sudo sh -c 'wget -qO- https://dl-
ssl.google.com/linux/linux_signing_key.pub | apt-key add -'
sudo sh -c 'wget -qO-
https://storage.googleapis.com/download.dartlang.org/linux/debi
an/dart_stable.list > /etc/apt/sources.list.d/dart_stable.list'
```

### 2. Install Dart:

- Run:

```
sudo apt update
sudo apt install dart
```

### 3. Update Your PATH:

- Add this line to your **.rc** or **.zshrc**:

```
export PATH="$PATH:/usr/lib/dart/bin"
```

- Then run:

```
source ~/.rc
```

### 4. Verify Installation:

- In Terminal, type:

```
dart --version
```

- You should see the Dart version printed.

## Step 2: Installing Flutter

Now, let's install Flutter. Flutter is the UI toolkit that lets you build natively compiled applications for mobile, web, and desktop from a single codebase.

## For Windows Users:

### 1. Download the Flutter SDK:

- Go to the Flutter SDK Downloads page.
- Download the latest stable release ZIP file.

**2. Extract the SDK:**

- Extract the downloaded ZIP file to a location of your choice (e.g., C:\flutter).

**3. Update Your PATH:**

- Open the Start Search, type in "environment", and select "Edit the system environment variables."
- In the System Properties window, click on the "Environment Variables" button.
- In the Environment Variables window, under "System variables," find the "Path" variable, select it, and click "Edit."
- Click "New" and add the path to the Flutter SDK (e.g., C:\flutter\bin).
- Click OK on all the windows to apply the changes.

**4. Run Flutter Doctor:**

- Open Command Prompt and type:

```
flutter doctor
```

- Follow any instructions to complete the setup.

**For macOS Users:**

**1. Download the Flutter SDK:**

- Go to the Flutter SDK Downloads page.
- Download the latest stable release ZIP file.

**2. Extract the SDK:**

- Open Terminal and navigate to the directory where you downloaded the file.
- Run:

```
unzip ~/Downloads/flutter_macos_*.zip -d ~/development
```

**3. Update Your PATH:**

- Add this line to your .rc, .zshrc, or .profile:

```
export PATH="$PATH:~/development/flutter/bin"
```

- Then run:

```
source ~/.rc
```

**4. Run Flutter Doctor:**

- In Terminal, type:

```
flutter doctor
```

- Follow any instructions to complete the setup.

## For Linux Users:

### 1. Download the Flutter SDK:

- Go to the Flutter SDK Downloads page.
- Download the latest stable release tar file.

### 2. Extract the SDK:

- Open Terminal and navigate to the directory where you downloaded the file.
- Run:

```
tar xf ~/Downloads/flutter_linux_*.tar.xz
```

### 3. Update Your PATH:

- Add this line to your `.rc` or `.zshrc`:

```
export PATH="$PATH:~/flutter/bin"
```

- Then run:

```
source ~/.rc
```

### 4. Run Flutter Doctor:

- In Terminal, type:

```
flutter doctor
```

- Follow any instructions to complete the setup.

## Conclusion

And there you have it! You've successfully installed Dart and Flutter on your system. Now you're ready to start building amazing apps. Let's make sure everything is working correctly by creating your first Flutter app.

### 1. Create a New Flutter Project:

```
flutter create my_first_app
```

### 2. Navigate to Your Project Directory:

```
cd my_first_app
```

### 3. Run Your App:

```
flutter run
```

If everything is set up correctly, you'll see a demo Flutter app running. Congratulations! You're now ready to explore the world of Dart and Flutter.

If you have any questions or run into any issues, don't hesitate to ask. Happy coding and happy fluttering!