

Get started

- 1. Install
- 2. Set up an editor
- 3. Test drive
- 4. Write your first app
- 5. Learn more

From another platform?

- Flutter for Android devs
- Flutter for iOS devs
- Flutter for React Native devs
- Flutter for web devs
- Flutter for Xamarin.Forms devs
- Introduction to declarative UI
- Dart language overview
- Building a web app

Samples & tutorials

Development

- User interface
- Data & backend
- Accessibility & internationalization
- Platform integration
- Packages & plugins
- Add Flutter to existing app
- Tools & techniques
- Migration notes

Testing & debugging

Performance & optimization

Deployment

Resources

Reference

- Widget index
- API reference
- flutter CLI reference
- Package site

Building a web application with Flutter

Docs > Get started > Building a web application with Flutter

Contents

- Requirements
- Create a new project with web support
 - Set up
 - Create and run
 - IDE
 - Command line
 - Build
- Add web support to an existing app

This page covers the following steps for getting started with web support:

- Configure the flutter tool for web support.
- Create a new project with web support.
- Run a new project with web support.
- Build an app with web support.
- Add web support to an existing project.

Requirements

To create a Flutter app with web support, you need the following software:

- Flutter SDK. See the Flutter SDK installation instructions.
- Chrome; debugging a web app requires the Chrome browser.
- Optional: An IDE that supports Flutter. You can install Android Studio, IntelliJ IDEA, or Visual Studio Code and install the Flutter and Dart plugins to enable language support and tools for refactoring, running, debugging, and reloading your web app with an editor. See setting up an editor for more details.

For more information, see the web FAQ.

Note: Flutter has early support for running web applications, but you need to be running the beta channel of Flutter at present. If you experience a problem that hasn't yet been reported, please file an issue and make sure that "web" appears in the title.

Create a new project with web support

You can use the following steps to create a new project with web support.

Set up

Run the following commands to use the latest version of the Flutter SDK from the beta channel and enable web support:


```
$ flutter channel beta
$ flutter upgrade
$ flutter config --enable-web
```

Warning: Running flutter channel beta replaces your current version of Flutter with the beta version and can take time if your connection is slow. After this, running flutter upgrade upgrades your install to the latest beta. Returning to the stable channel (or any other) requires calling flutter channel <channel> explicitly.

Note: The flutter upgrade command silently fails when origin points to a personal fork. To validate that origin points to https://github.com/flutter/flutter.git, run the following commands in the root directory of your local copy of the https://github.com/flutter/flutter repository:

Get started

- [1. Install](#)
- [2. Set up an editor](#)
- [3. Test drive](#)
- [4. Write your first app](#)
- [5. Learn more](#)

- ▼ From another platform?
- [Flutter for Android devs](#)
 - [Flutter for iOS devs](#)
 - [Flutter for React Native devs](#)
 - [Flutter for web devs](#)
 - [Flutter for Xamarin.Forms devs](#)
 - [Introduction to declarative UI](#)
 - [Dart language overview](#) 
 - [Building a web app](#)

Samples & tutorials

Development

- ▶ [User interface](#)
- ▶ [Data & backend](#)
- ▶ [Accessibility & internationalization](#)
- ▶ [Platform integration](#)
- ▶ [Packages & plugins](#)
- ▶ [Add Flutter to existing app](#)
- ▶ [Tools & techniques](#)
- ▶ [Migration notes](#)



Testing & debugging

Performance & optimization

Deployment

Resources

Reference

- [Widget index](#)
- [API reference](#) 
- [flutter CLI reference](#)
- [Package site](#) 

```
$ cd <inside local copy of the flutter/flutter repo>
$ git remote get-url origin
https://github.com/flutter/flutter.git
```

Once web is enabled, the `flutter devices` command outputs a `Chrome` device that opens the Chrome browser with your app running, and a `Web Server` that provides the URL serving the app.

```
$ flutter devices
2 connected device:

Web Server • web-server • web-javascript • Flutter Tools
Chrome     • chrome     • web-javascript • Google Chrome 81.0.4044.129
```

After enabling web support, restart your IDE. You should now see **Chrome (web)** and **Web Server (web)** in the device pulldown.

Note: You only need to execute `flutter config --enable-web` once. You can always check the status of your configuration using the no-argument `flutter config` command.

Create and run

Creating a new project with web support is no different than [creating a new Flutter project](#) for other platforms.

Once you’ve configured your environment for web support, you can create and run a web app either in the IDE or from the comma line.

IDE

After you’ve configured your environment to support the web, make sure you restart the IDE if it was already running.

Create a new app in your IDE and it automatically creates iOS, Android, and web versions of your app. (And macOS, too, if you’ve enabled [desktop support](#).) From the device pulldown, select **Chrome (web)** and run your app to see it launch in Chrome.

Command line

To create a new app that includes web support (in addition to mobile support), run the following commands, substituting `myapp` w the name of your project:

```
$ flutter create myapp
$ cd myapp
```

To serve your app from `localhost` in Chrome, enter the following from the top of the package:

```
$ flutter run -d chrome
```

Note: If there aren’t any other connected devices, the `-d chrome` is optional.

The `flutter run` command launches the application using the [development compiler](#) in a Chrome browser.

Build

Run the following command to generate a release build:

```
$ flutter build web
```

A release build uses [dart2js](#) (instead of the [development compiler](#)) to produce a single JavaScript file `main.dart.js`. You can cre a release build using release mode (`flutter run --release`) or by using `flutter build web`. This populates a `build/web` direc with built files, including an `assets` directory, which need to be served together.

For more information, see [Build and release a web app](#).

Add web support to an existing app

To add web support to an existing project, run the following command in a terminal from the root project directory:

```
$ flutter create .
```