



These are some of the resources to learn flutter for beginners. Learn the basics and start with some projects !

Flutter is an open source software development kit created by Google, it is used to develop cross platform applications, created by C, C++ and Dart.

Setup:

- Either of the two options:
 - Install [Android Studio](#) and [Flutter SDK](#)
 - Install [VS Code](#) and [Flutter SDK](#)
- Install JDK 8
- Add java and flutter SDK to path

Prerequisite:

- Basic programming knowledge would be helpful. Also you can learn Dart from [official resources.](#)

Topics to Learn:

- **Beginner:**
 - Data types and variables
 - Functions
 - Widgets
 - State
 - Stateful and Stateless Widget
 - Future, null safety
 - Row, Column, Stack, Wrap
 - Navigation

- **Intermediate:**

- Clean Architecture
- State Management using bloc, redux, etc.
- Firebase
- Persistent Local Data Storage
- Use of APIs

- **Advanced:**

- Animations, Responsive Design
- Unit Testing
- Background tasks
- Publishing apps to Play store

Official Documentation :

- <https://docs.flutter.dev/>

Projects :

- [Login and SignUp Page](#)
- Profile card(Be Creative: Use Circular Avatar and more!)
- Portfolio App
- Image Gallery page(Find methods on your own! Refer:
<https://github.com/riya461/Image-gallery-flutter>)
- [E-Commerce App](#)

Have fun learning , Be creative and enjoy the process!!