

Flutter & Dart Complete Guide

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DAFL 1
Introduction

Lecture 1



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Chapter
01

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Introduction

Introduction

- ◆ Flutter is framework created by **google**.
- ◆ A cross-platform framework used to develop application for
 - Android
 - iOS
 - Web
 - and Desktop
- ◆ Dart Programming language



Why Flutter for App Development

1. Open Source

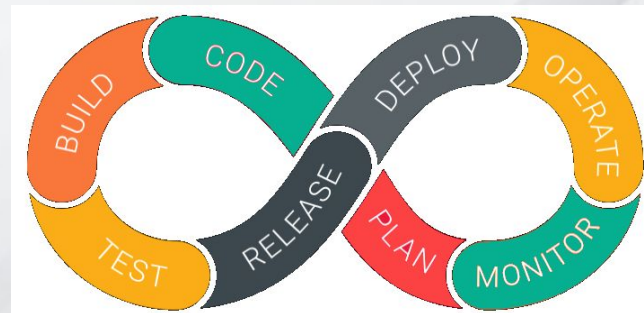
Flutter is Open-Source framework
Therefore, anyone can use it for any given purpose.



2. Faster development Cycle

Flutter is so fast that it takes less than 30 sec for first full compilation.

Comes with Hot-Reload & Hot-Restart.



3. Super Productive

Comes with Hot-Reload & Hot-Restart.

Due to Stateful widget hot-reload feature Flutter is very fast iterative coding style.



Why Flutter for App Development

4. Ease to learn & code sharing

Any one who have basic knowledge of OOPS & UI Designing can easily learn Flutter.



5. Widget Libraries

Ready to use widget, Flutter have many widget that you can use to build flutter application.

Such as : http, get, share plus, toggle switch etc.



6. Community Support

Flutter Community is bit small if we compare with other framework like React.

But Flutter is grow very fast then other framework.



Mission

Empower developers to create apps.

Our mission is to empower individuals to embark on a transformative journey from novice to virtuoso in Flutter. We will commence by laying a strong foundation with Dart fundamentals, progressing into a comprehensive exploration of Flutter basics. Our ultimate aim is to enable profound expertise, delving into advanced Flutter topics, software design patterns, and architectural principles. We prioritize cultivating resilient software engineers, transcending the confines of mobile or Flutter development

Vision

Leading cross-platform app innovation.

Our vision is to foster a community of resilient software engineers who excel beyond mobile development. We aspire to equip our learners with the knowledge and skills required to start from scratch and evolve into Flutter experts. By emphasizing clean code and architectural acumen, we aim to create versatile professionals who can tackle any software challenge, transcending the boundaries of a typical mobile or Flutter developer.

Roadmap

Roadmap for Dart Language

Dart

Weeks	Topics
Week 1	Introduction about Dart and Flutter
Week 2	Dart Basics
Week 3	Dart Type System , Control Flow
Week 4	Build a Command Line App (Project)
Week 5	Collections , Null Safety
Week 6	Data Processing in Dart (Project)

Dart

Weeks	Topics
Week 7	Functions
Week 8	OOP Part(1)
Week 9	OOP Part(2)
Week 10	OOP part (3)
Week 11	Mixins & Extensions / Error Handling and Exceptions / Async Programming and Isolates

What is Next ?

<https://dartpad.dev/>



Thank You