



FLUTTER DEVELOPMENT



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Learn The Basic Of Dart



- ▶ **DartPad**
- ▶ **Variables**
- ▶ **Built-in Types**
- ▶ **Functions**
- ▶ **Operators**
- ▶ **Control Flow Statements**





Setup Development Environment



- ▶ Flutter CLI
- ▶ IDEs
- VS Code
- Android Studio
- IntelliJ IDEA
- ▶ FVM (Flutter Version Manager)





Widgets



- ▶ Inherited Widgets
- ▶ Stateless Widgets
- ▶ Stateful widgets
- ▶ Android Studio
- ▶ Styled Widgets
- Material Widgets
- Cupertino widgets





Working with Assets



- ▶ Fonts
- ▶ Images
- ▶ Other File Types



⚡ Version Control Systems



- ▶ Git

⚡ Repo Hosting Services

- ▶ Github



Design Principles



- ▶ **Dependency Injection**
- ▶ **Design Patterns**
- ▶ **SOLID Principles**
- ▶ **OOP**





Package Manager



- ▶ **Pub.dev**
- ▶ **Flutter pub/dart pub**





Working with APIs



- ▶ **JSON**
- ▶ **Web Sockets**
- ▶ **GraphQL**
- ▶ **RESTful APIs**





Storage

- ▶ **SQLite**
- ▶ **Shared Preferences**
- ▶ **Firebase**
- **Authentication**
- **Storage**
- **Firestore**
- **Push Notifications**
- **Remote Config**
- **Firebase Cloud Functions**



Advanced Dart



- ▶ **Lists**
- ▶ **Collections**
- ▶ **Lambdas**
- ▶ **Functional Programming**
- ▶ **Storage**
- ▶ **Isolates**
- **Push Notifications**
- **Remote Config**
- **Firebase Cloud Functions**





Advanced Dart



- ▶ **Lists**
- ▶ **Collections**
- ▶ **Lambdas**
- ▶ **Functional Programming**
- ▶ **Storage**
- ▶ **Isolates**
- ▶ **Async/Await**
- ▶ **Streams**
- ▶ **Futures**





State Management



▶ Riverpod

▶ BloC

▶ Provider

▶ GetX



Reactive Programming

▶ RxDart



Animations

- ▶ Curved Animations
- ▶ Animation Controller
- ▶ Animated Builder
- ▶ Animated Widget
- ▶ Hero
- ▶ Opacity



- ▶ **Unit Testing**
- ▶ **Widget Testing**
- ▶ **Integration Testing**
- ▶ **TDD , BDD**



- ▶ **Flutter Inspector**
- ▶ **Flutter Outline**
- ▶ **Memory Allocation**





- ▶ **Render Objects**
- ▶ **3 Trees**
- ▶ **Immutability**





CI/CD



- ▶ **Fast lane**
- ▶ **Code magic**
- ▶ **Bitrise**
- ▶ **Github Actions**
- ▶ **Firebase App Distribution**





- ▶ Segment
- ▶ Mixpanel
- ▶ Bitrise
- ▶ Firebase Analytics
- ▶ Google Analytics

Deployment

-  **App Store**
-  **Guidelines and protocols**
-  **Play Store**



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