

A series of five teal-colored curved lines or arcs arranged in a semi-circular pattern at the top right of the slide.

Flutter Basics

A Workshop on Cross-platform
App Development from Scratch

~Prinkal Doshi (<https://www.linkedin.com/in/prinkaldoshi/>)

~Prerak Gada (<https://prerakgada.in>)



Cross-platform Tools

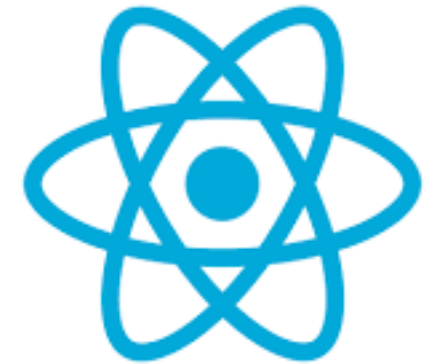
1.Flutter

2.React-native

3.Xamarin

4.Ionic

5.Unity



React Native



ionic



Unity

What is Flutter?

Free and open source
development framework

Created by Google and
maintained by the Flutter
community

Used by a wide range of
companies for their mobile
apps

Supports Android, iOS,
Windows, macOS, Linux and
Web

Code reuse across
platforms

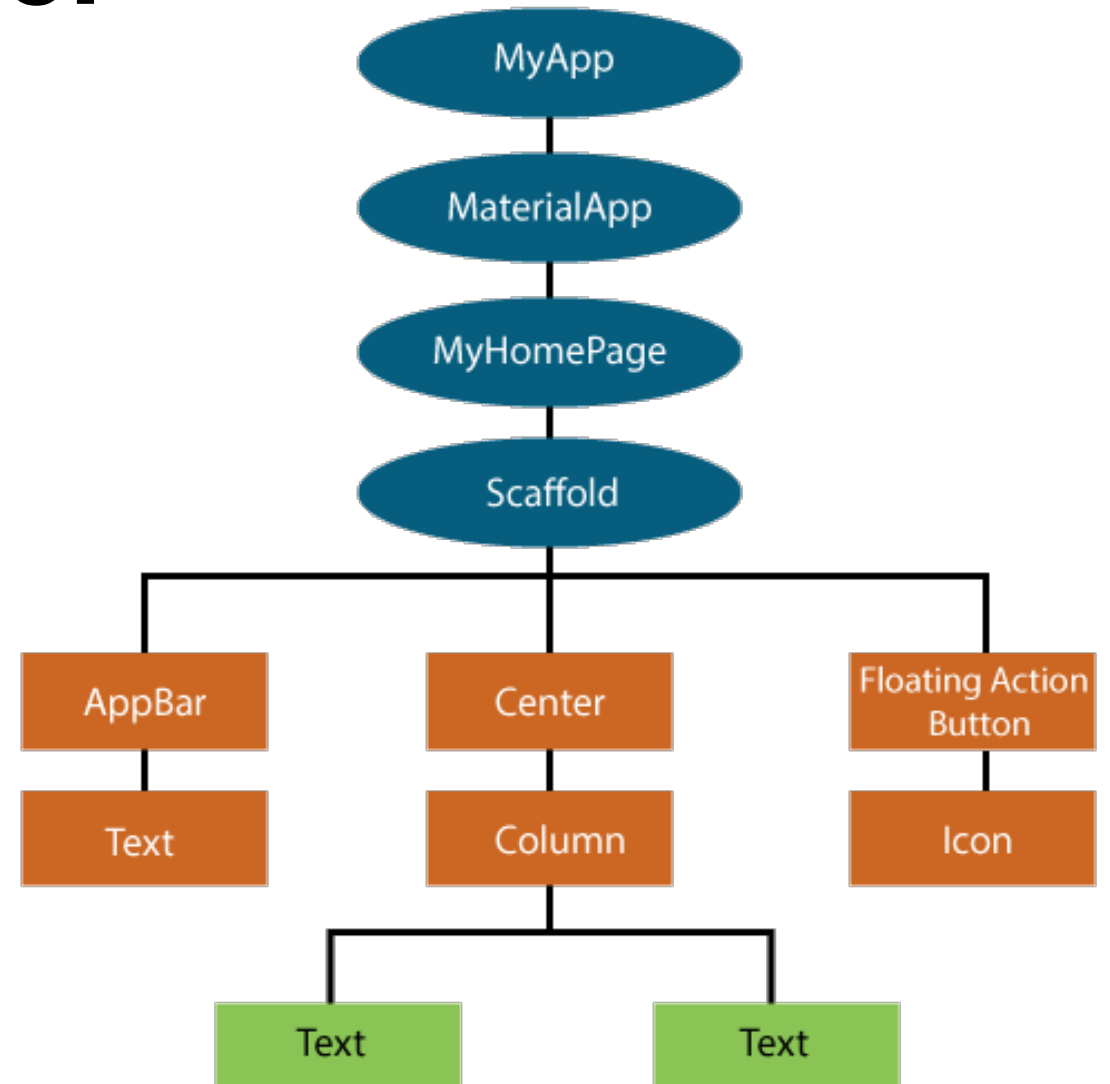
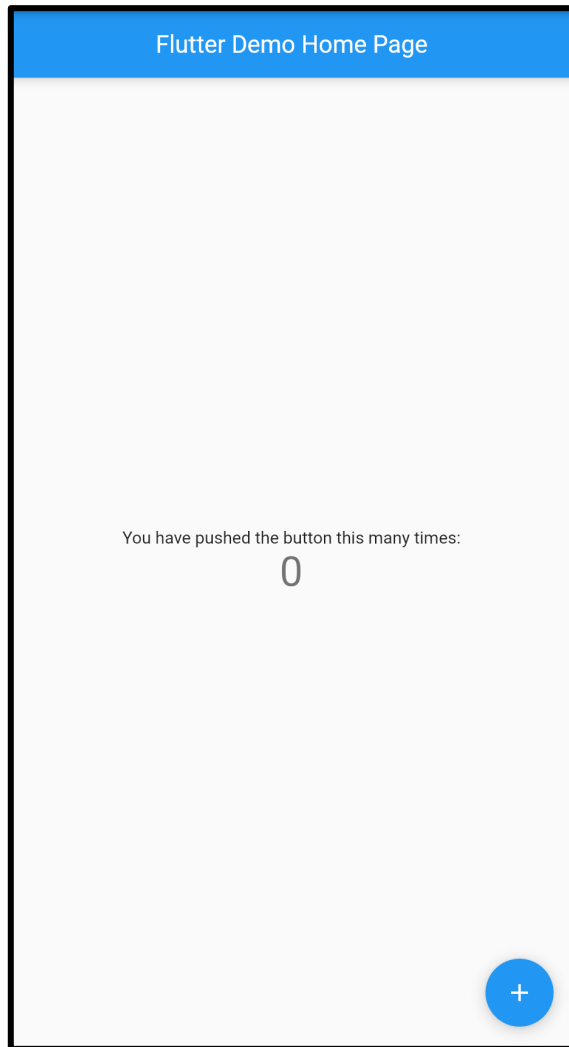


What is Dart?

- Dart is an open-source, general-purpose, object-oriented programming language with C-style syntax developed by **Google in 2011**.
- The purpose of Dart programming is to create a frontend user interfaces for the web and mobile apps.



Everything is a Widget



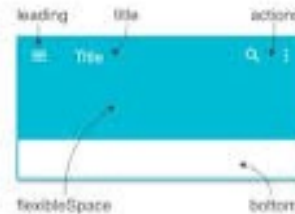
Basic Flutter Widgets

Scaffold



UI / UX

AppBar



Text

```
onPanUpdate:  
DragUpdateDetails(Offset(0.3, 0.0))
```

RichText

Flutter World for Mobile

SafeArea

No SafeArea



With SafeArea



Column

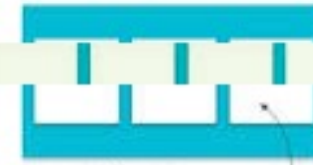
Column



Vertically Aligned

Row

Row



Horizontally Aligned

Container



Button

Barista

Default

Barista

StadiumBorder

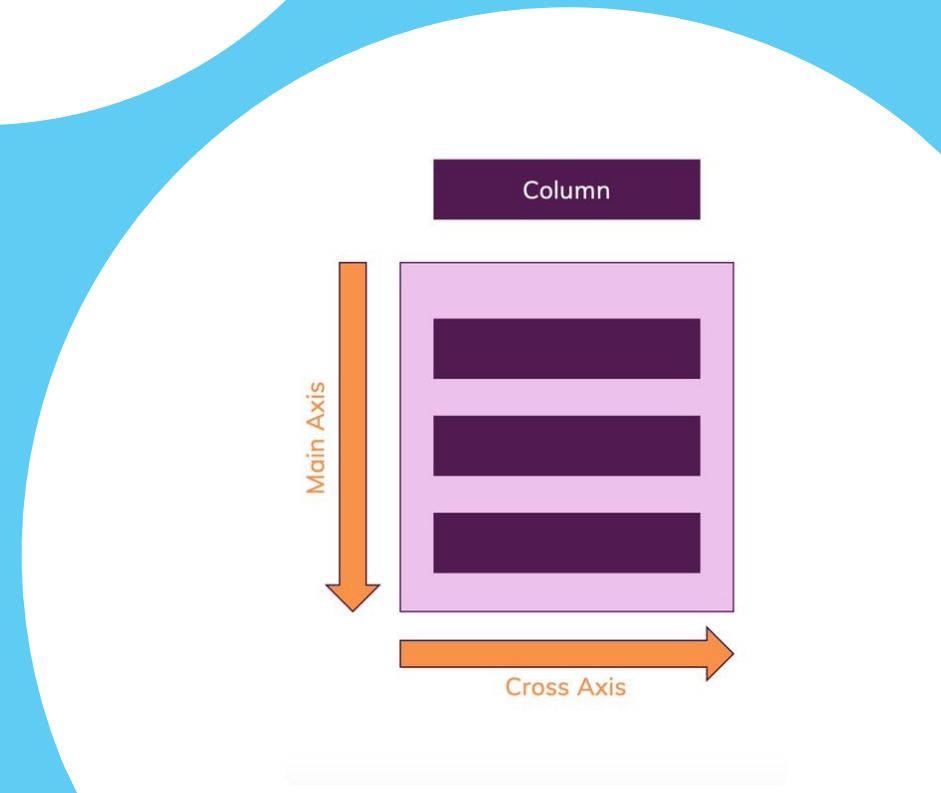
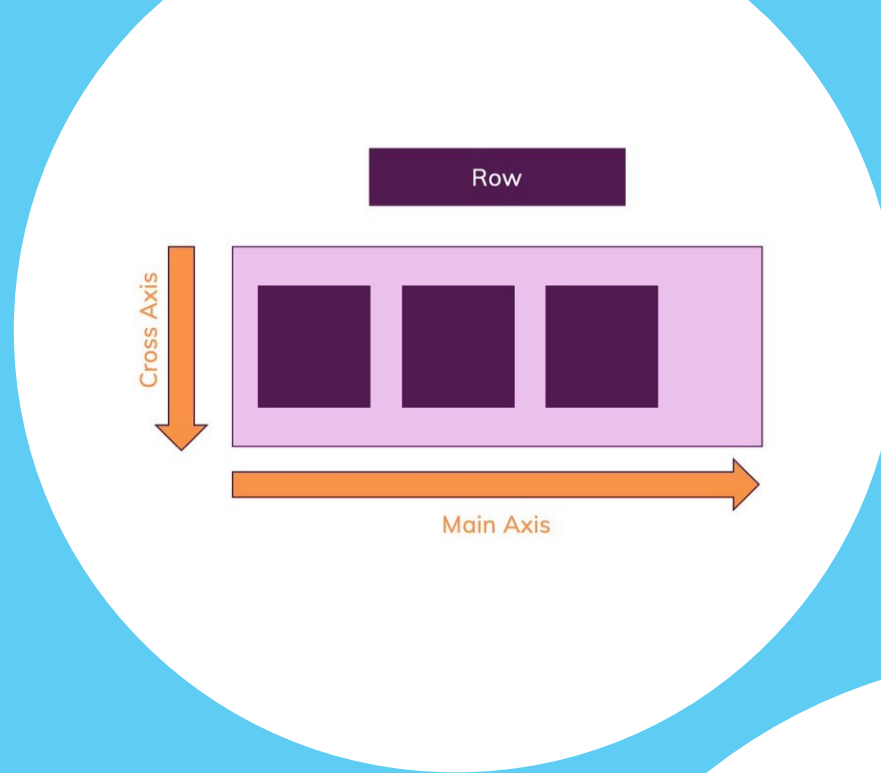
Barista

UnderlineInputBorder

Barista

OutlineInputBorder

Flex Box in Flutter








Flex Styles in Column

CrossAxis Alignment





| .center | .start | .end | .stretch |
|--|---|---|---|
|  |  |  |  |

MainAxis Alignment

| .center | .start | .end | .spaceEvenly | .spaceAround | .spaceBetween |
|---|--|--|--|--|--|
|  |  |  |  |  |  |

Flex Styles in Row

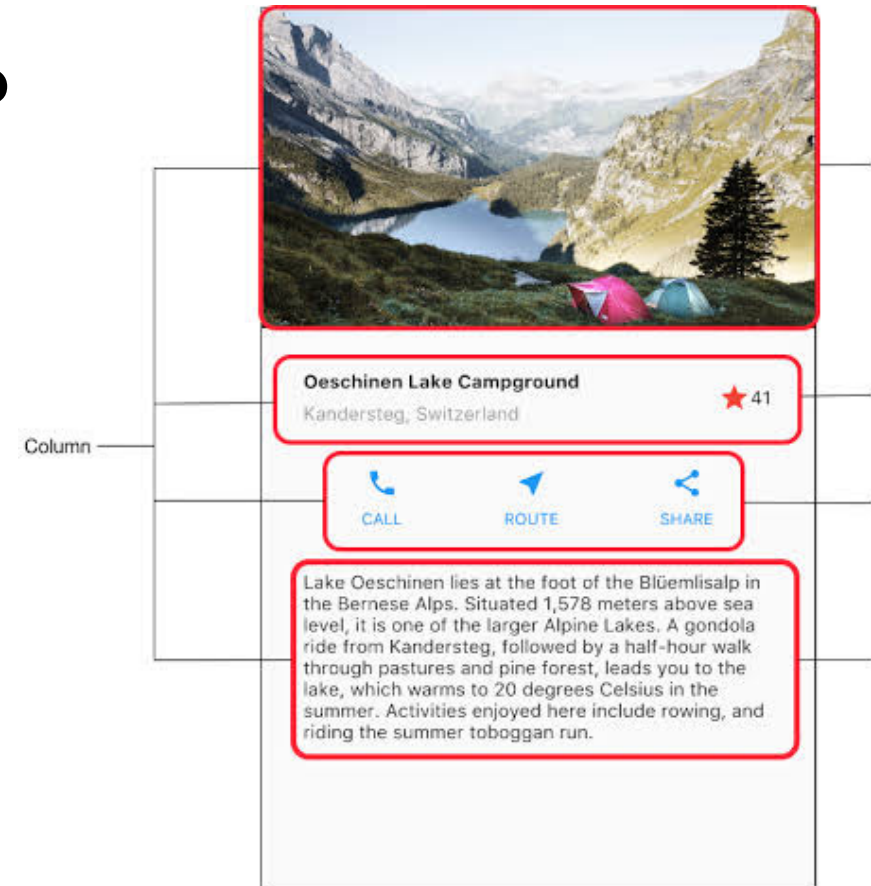
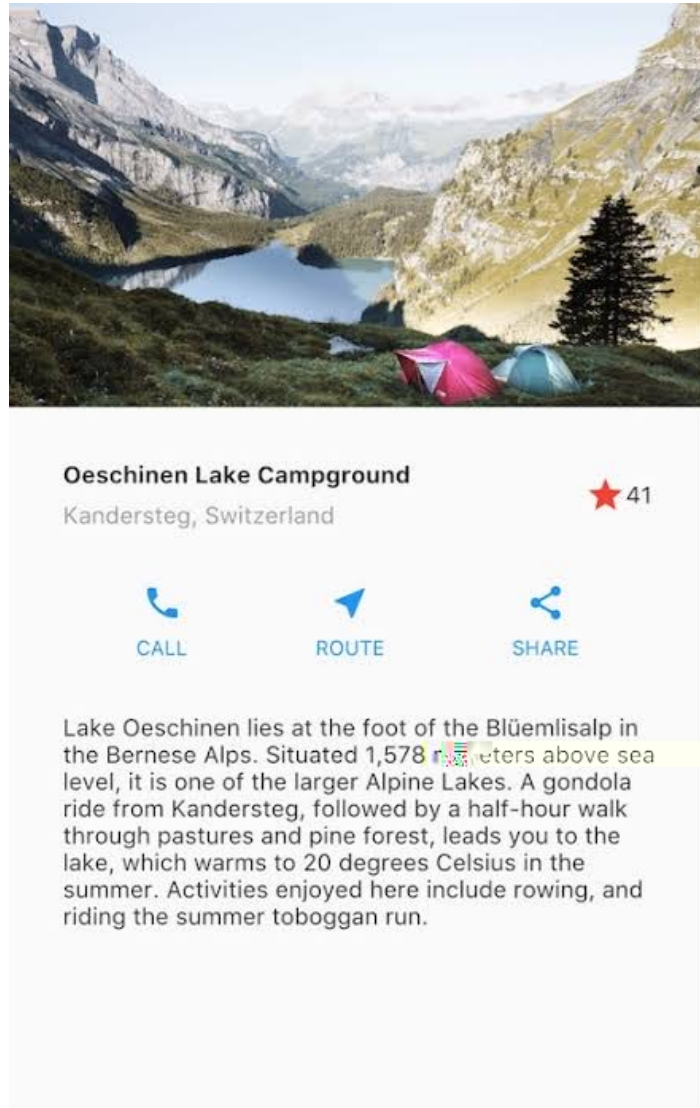
CrossAxis
Alignment

| .center | .start | .end | .stretch |
|--|---|---|---|
|  |  |  |  |

MainAxis
Alignment

| .center | .start | .end |
|--|---|---|
|  |  |  |
| .spaceEvenly | .spaceAround | .spaceBetween |
|  |  |  |

What do you see here?



Another Example

Row
2 children

child: new Column




child: new Image


Column
4 children

Strawberry Pavlova

Pavlova is a meringue-based dessert named after the Russian ballerine Anna Pavlova. Pavlova features a crisp crust and soft, light meringue, topped with fruit and whipped cream.

★★★★★ 170 Reviews

| | | |
|---|---|--|
|  PREP: |  COOK: |  FEEDS: |
| 25 min | 1 hr | 4-6 |



The background is a vibrant, abstract composition of overlapping, rounded rectangular shapes in various colors including blue, purple, red, green, and yellow. A prominent digital glitch or distortion effect is visible on the right side of the central text area, characterized by horizontal lines and color fringing. In the top right corner, there is a solid teal circle. In the bottom left corner, there is a red outline of a right-angled triangle.

LET'S
CODE