



Flutter

An introduction

What is Flutter?

- Mobile Ui Development Toolkit Developed by Google
 (Now it has become a kind of cross platform dev framework
 Android, iOS, Web, Windows, Linux, Mac
- Uses the programming language Dart (also developed by Google)

Why should you use it?

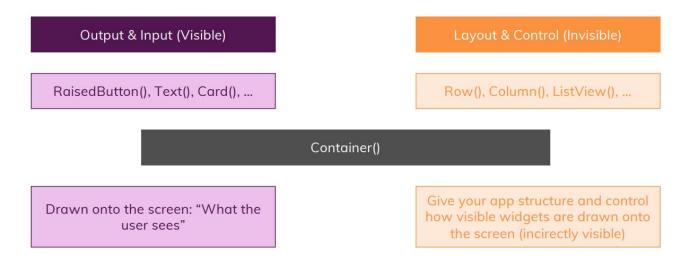
- Extremely easy to use
- Rapid deployment on various platforms
- A rapidly growing community
- Hot Reload & Hot Restart 🔥 🔥 🔥!

A Glimpse at Flutter Installation

Let's get started with the basics!

The next few slides will be dedicated to the basic components of flutter

Different Types of Widgets



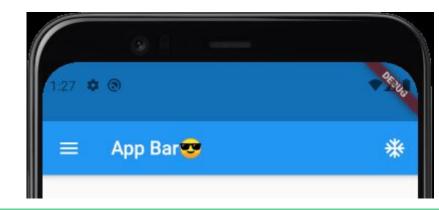
Scaffold

Implements the basic material design visual layout structure.

The Scaffold is designed to be the top level container for a MaterialApp. This means that adding a Scaffold to each route on a Material app will provide the app with Material's basic visual layout structure.

AppBar

Property of Scaffold appBar : AppBar()





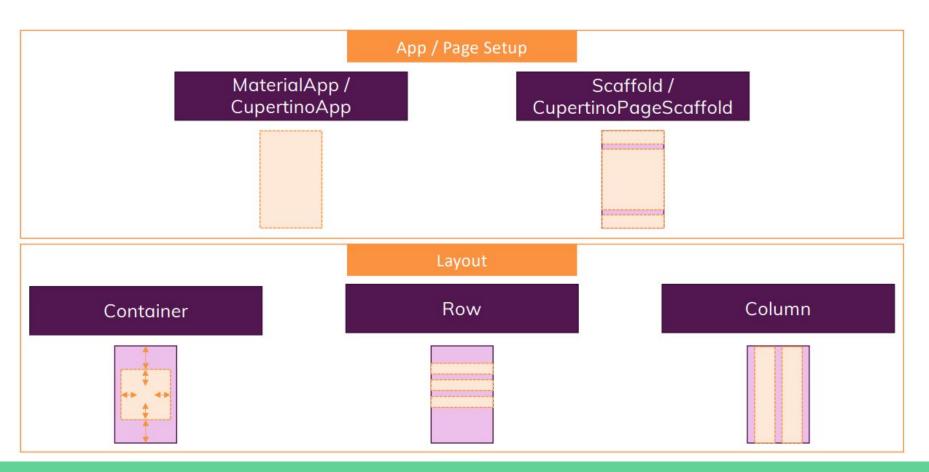


Stateless Widgets

Widgets which don't have or maintain any state
Simple as that

Wondering what is a state ??? •••••

Most Important Widgets



Containers(Very important)

- Extremely versatile widget!
- Can be sized (width, height, maxWidth, maxHeight), styled(border, color, shape) and more...
- Can take a child (not necessarily) which can be aligned in different ways
- We'll use this widget quite often

Rows, Columns

- Must-use if you need multiple widgets to sit next to each other horizontally or vertically
- Limited styling options => Wrap with a Container (or wrap child widget) to apply styling
- Children can be aligned along main-axis and cross-axis

Special Widgets(Text)

- A widget that simply outputs some text on the screen
- Text can be styled such as font family, font weight, font size etc
- Text behaviour can be controlled. Eg. clipping and overflows

Image, Icon assets

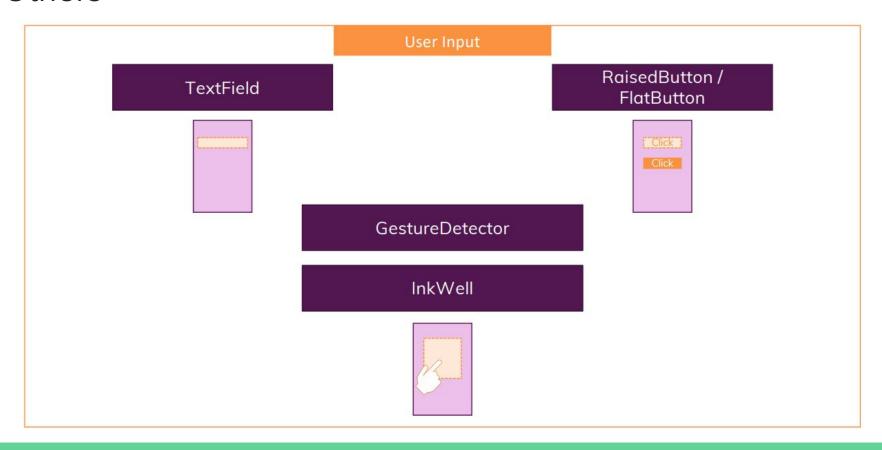
Image

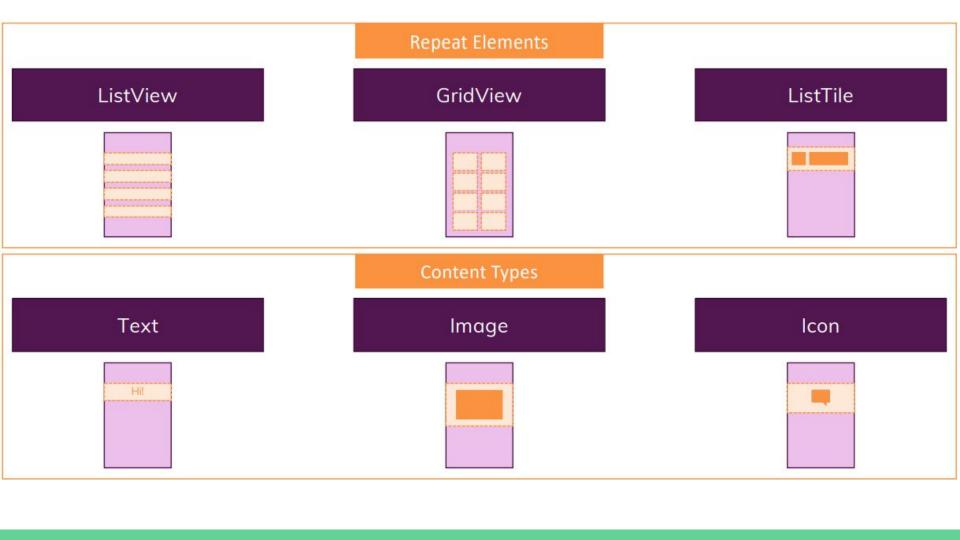
- Used to render an image on the screen
- Supports different sources (included in app, web image, ...)
- Can be configured to size itself in different ways into a wrapping container

Icon

- Renders an Icon onto the screen
- Flutter ships with many default Material (Android) and iOS icons which you can use
- There also is an IconButton() widget in case you need a button with an icon

Others





So...

Roll your sleeves up and let's get out hands dirty

