Desenvolvimento Mobile: Introdução ao Flutter

Flutter

Dart

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- ADS
- UmanoTec
- Dev Full Stack

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- UmanoTec
- Dev Android Full Stack

Timeline

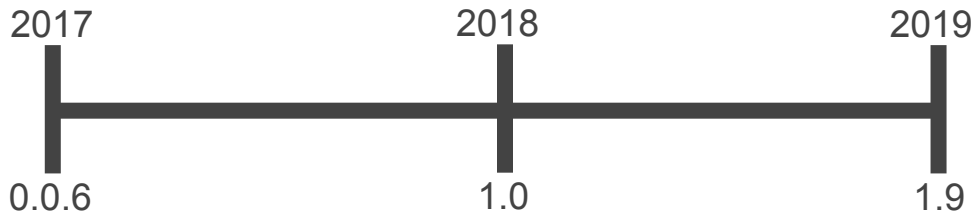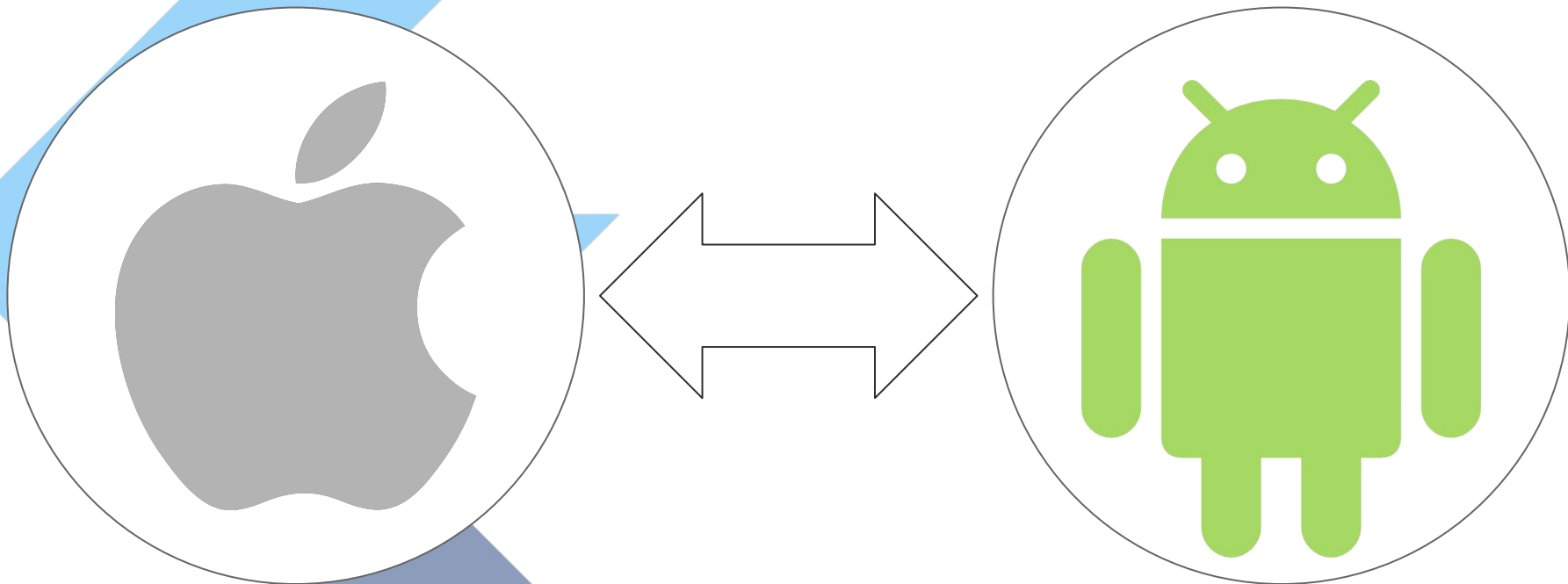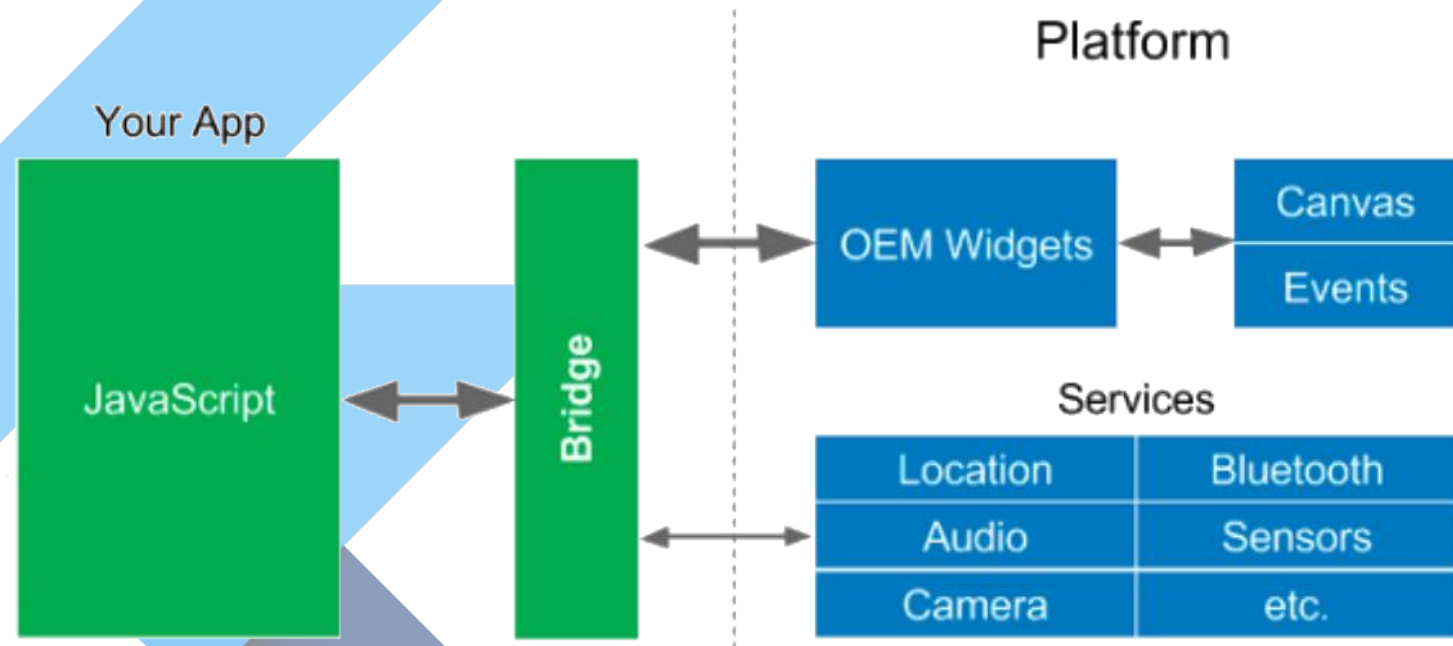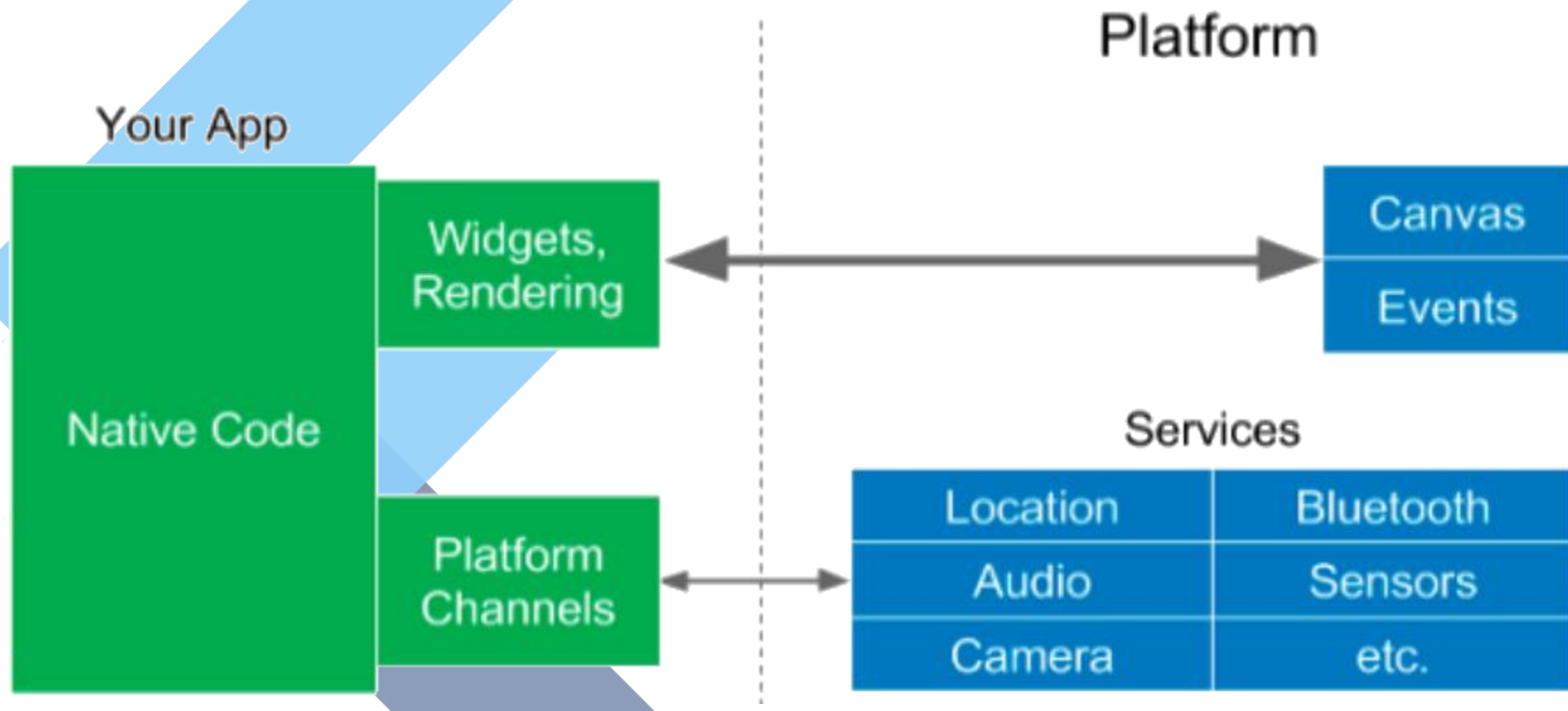|	Dart			
2011	2013		2018	2019
GOTO	1.0		2.0	2.5

	Flutter		
2017	2018		2019
0.0.6	1.0		1.9

Compilação Multi Plataformas

Como funciona?

Your App

JavaScript

Bridge

Platform

OEM Widgets

Canvas

Events

Services

Location	Bluetooth
Audio	Sensors
Camera	etc.

Como funciona?

Como funciona?

Material		Cupertino
Widgets		
Rendering		
Animation	Painting	Gestures
Foundation		

Framework (Dart)

Engine (C++): Skia | Dart | Plattform Ch. | ...

Plattform: Android Shell | iOS Shell | Embedder API

Stateless e Stateful

StatelessWidget

constructor → build
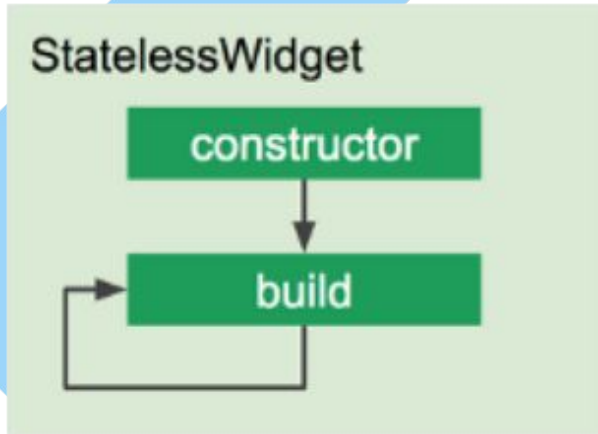
A single StatelessWidget can build in many different BuildContexts

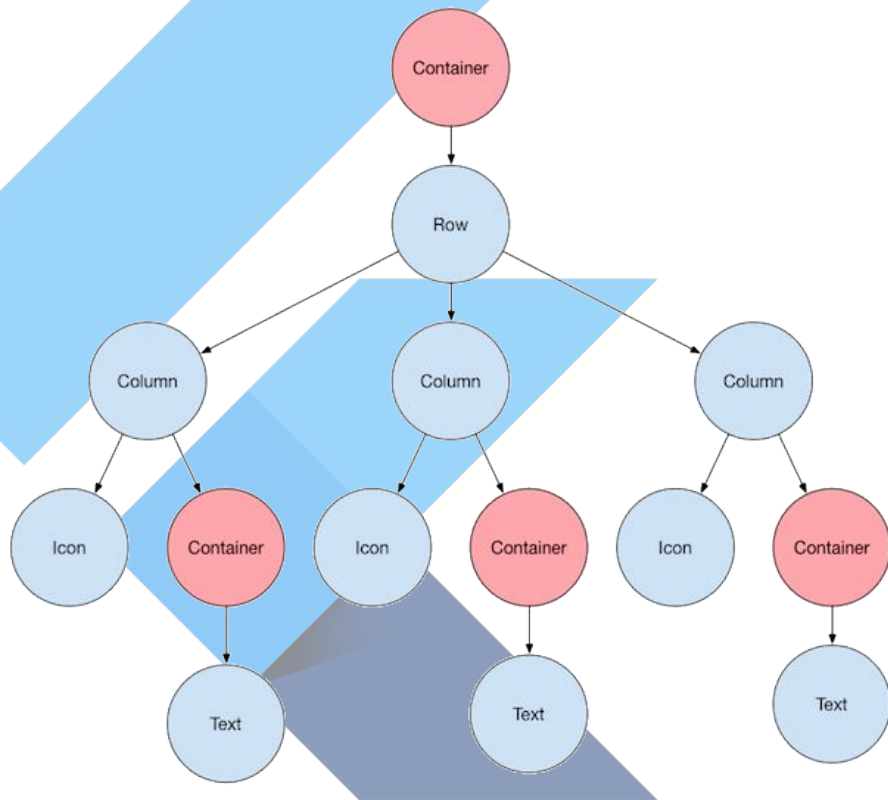**StatefulWidget**

constructor → createState
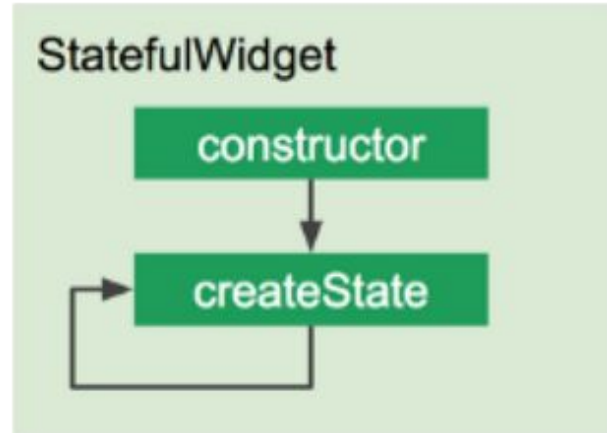
A StatefulWidget creates a new State object for each BuildContext

Widgets

- Quase tudo é um widget
- Appbar, Column, Container, Icon, Image, Row, RaisedButton, Text...

Widgets

WWW
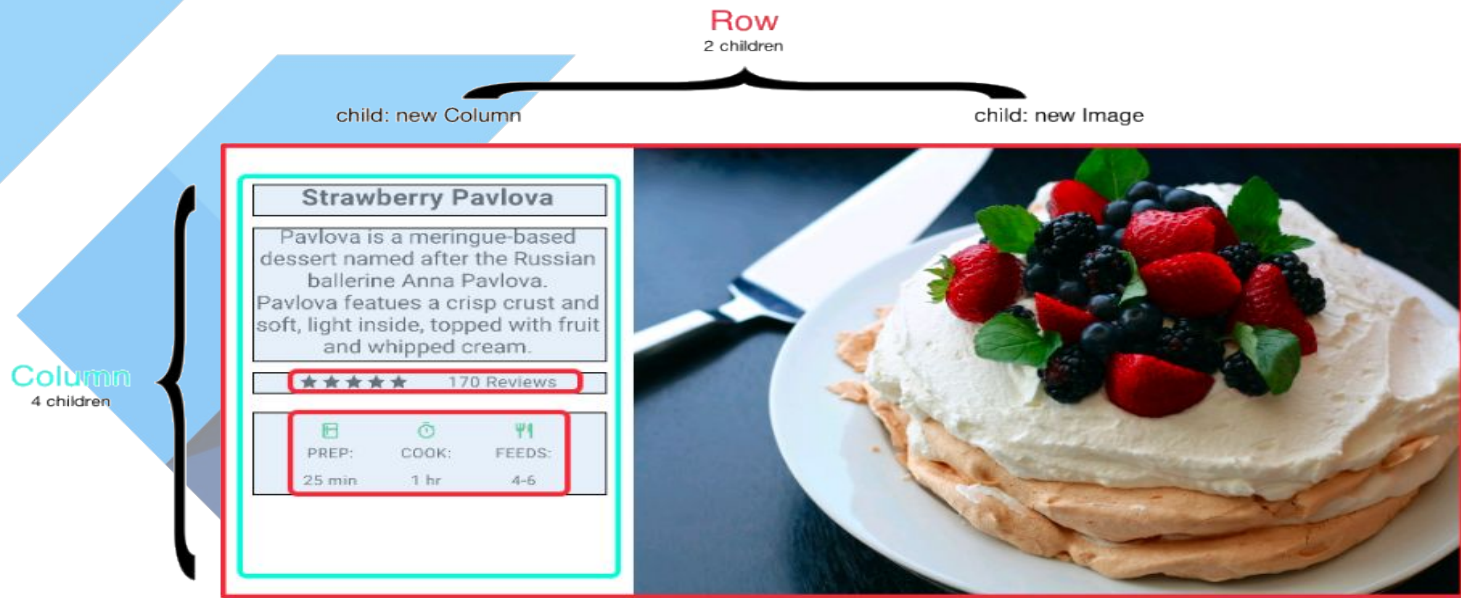
```html
<div class="hello-world">
    Hello World!!
</div>

<style>
    .hello-world {
        width: 200px;
        height: 200px;
        background-color: #FFFFFF;
        border: 1px solid #CCC;
        font-size: 20px;
        font-weight: bold;
        color: #ff122d;
        text-align: center;
    }
</style>
```

Hello World!!

Flutter

```dart
return Container(
  width: 200,
  height: 200,
  decoration: BoxDecoration(
    color: Colors.white,
    border: Border.all(
      color: Colors.grey[800]
    ), // Border.all
  ), // BoxDecoration
  child: Text('Hello World!!',
    textAlign: TextAlign.center,
    style: TextStyle(
      fontSize: 20,
      fontWeight: FontWeight.bold,
      color: Colors.red,
    ) // TextStyle
  ), // Text
); // Container
```
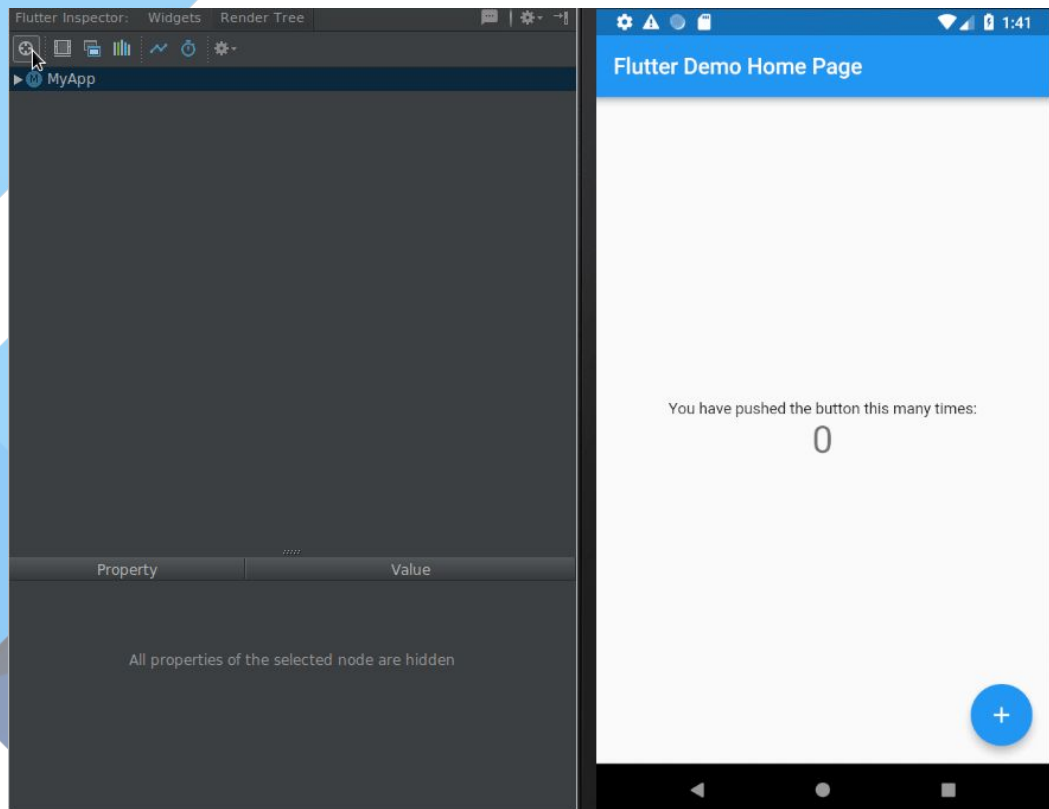
XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="200dp"
        android:layout_height="200dp"
        android:layout_gravity="center"
        android:background="@drawable/shape_border_text_view"
        android:gravity="center"
        android:text="Hello World!!"
        android:textColor="#FF0000"
        android:textSize="20sp" />

</LinearLayout>
```
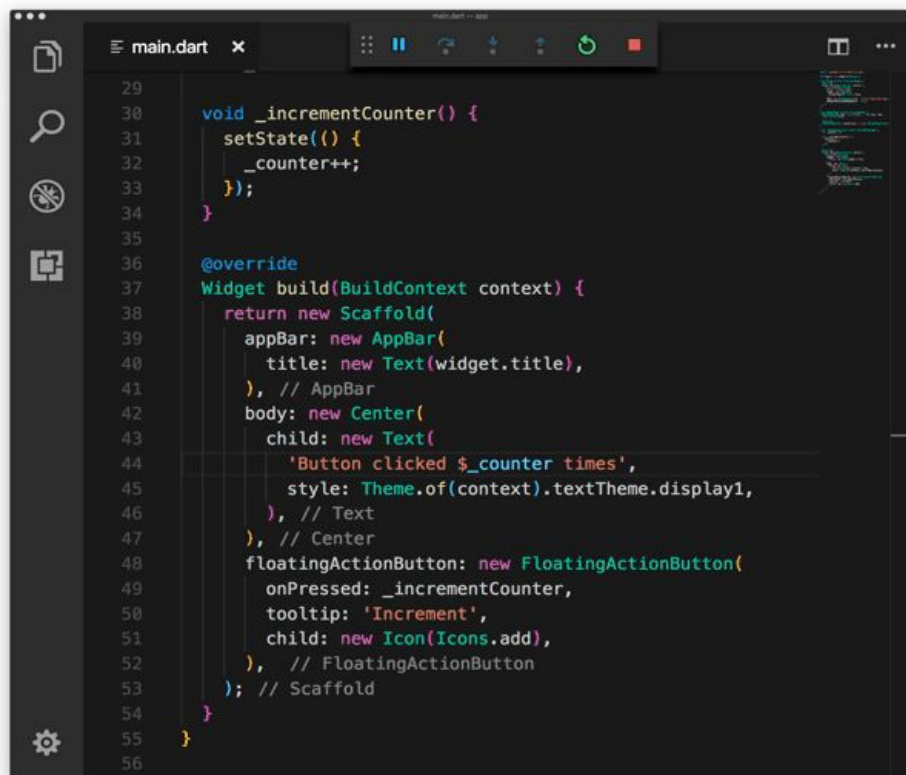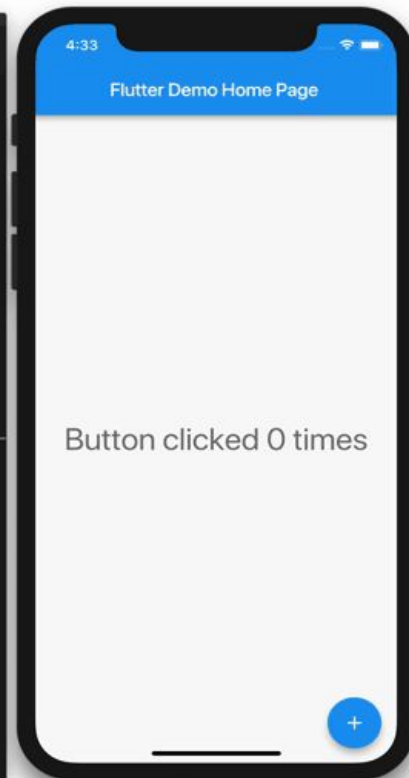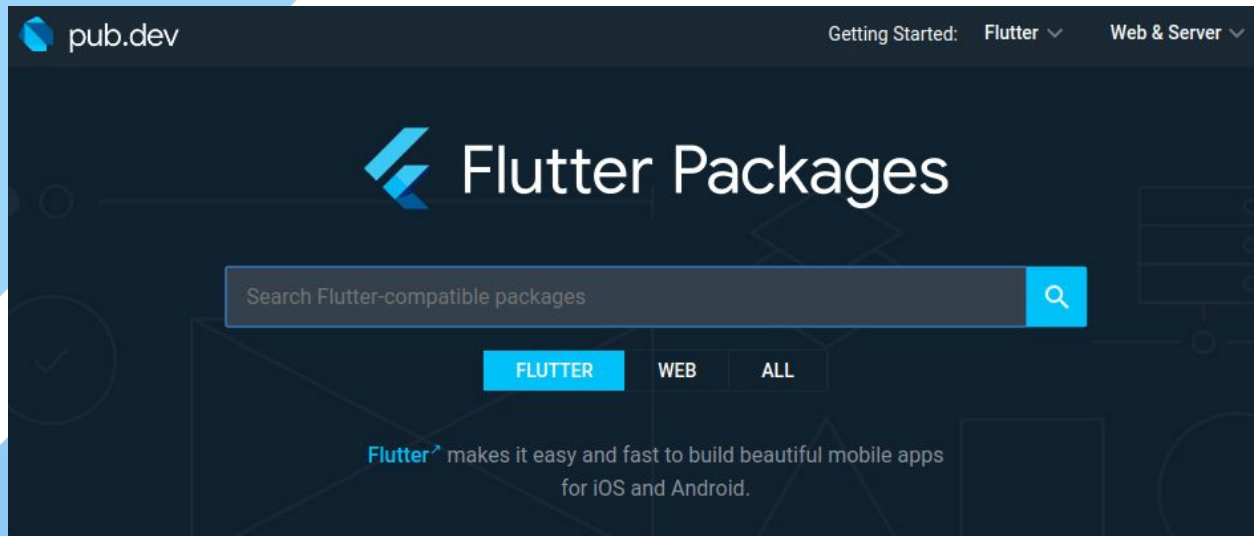
Inspector

Hot reload

Dependências   pub.dev/

Dependências

shared_preferences 0.5.3+4

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Readme   Changelog   Example   Installing   Versions   100

Popularity: 100

Health: 100

Maintenance: 100

Overall: 100

About
Flutter plugin for reading and writing simple key-value pairs. Wraps NSUserDefaults on iOS and SharedPreferences on Android.
Homepage
Repository (GitHub)
View/report issues
API reference

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✉ Q cbracken@google.com
✉ Q gspencer@google.com
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✉ Q mklim@google.com
✉ Q ychris@google.com

License
BSD (LICENSE)

Dependencies
flutter, meta

pubspec.yaml

```yaml
name: tchelinux                          flutter:
description: App Flutter                   uses-material-design: true
version: 1.0.0

environment:                              assets:
  sdk: ">=2.1.0 <3.0.0"                     - assets/
                                            - assets/exemplo.png

dependencies:
  flutter:                                fonts:
    sdk: flutter                            - family: Quicksand
                                              fonts:
  cupertino_icons: ^0.1.2                       - asset: assets/fonts/Quicksand-Bold.ttf
  shared_preferences: ^0.5.3+4                  - asset: assets/fonts/Quicksand-Light.ttf
                                                - asset: assets/fonts/Quicksand-Medium.ttf
dev_dependencies:                               - asset: assets/fonts/Quicksand-Regular.ttf
  flutter_test:                                 - asset: assets/fonts/Quicksand-SemiBold.ttf
    sdk: flutter
```
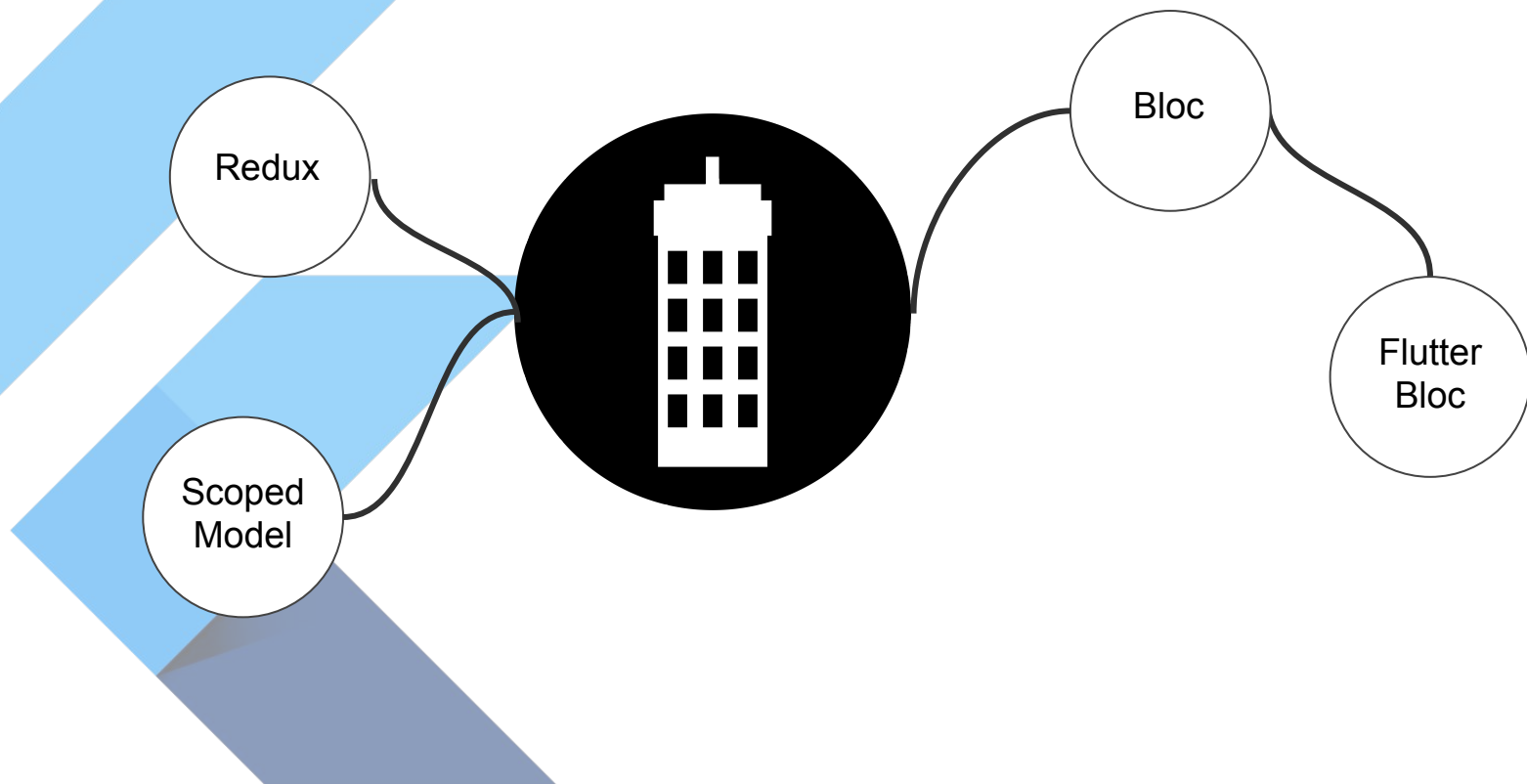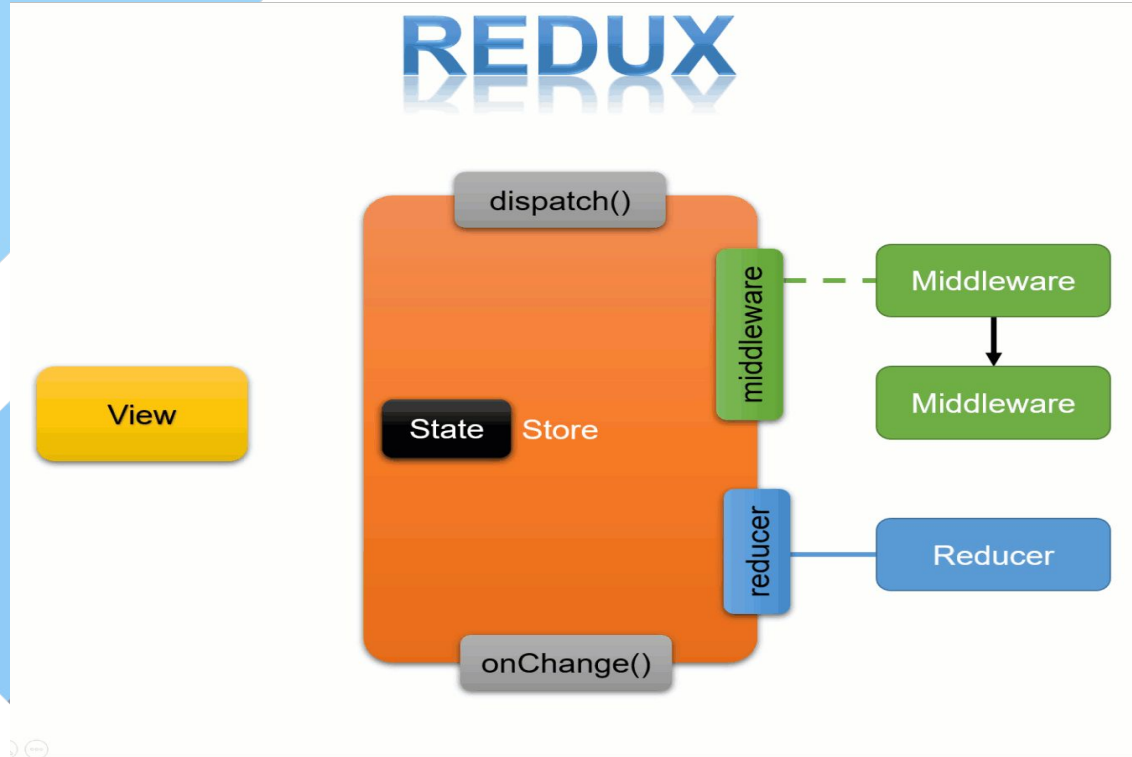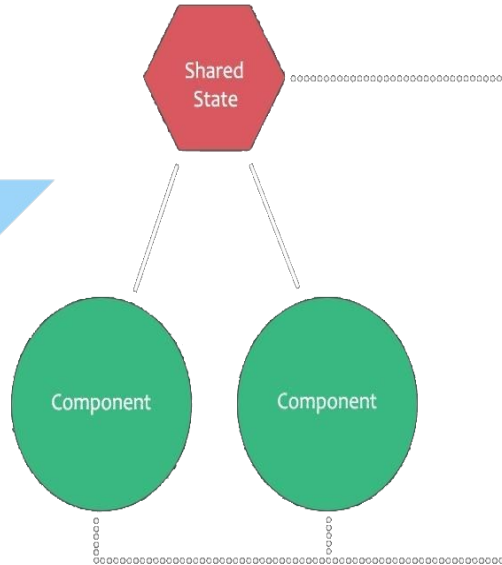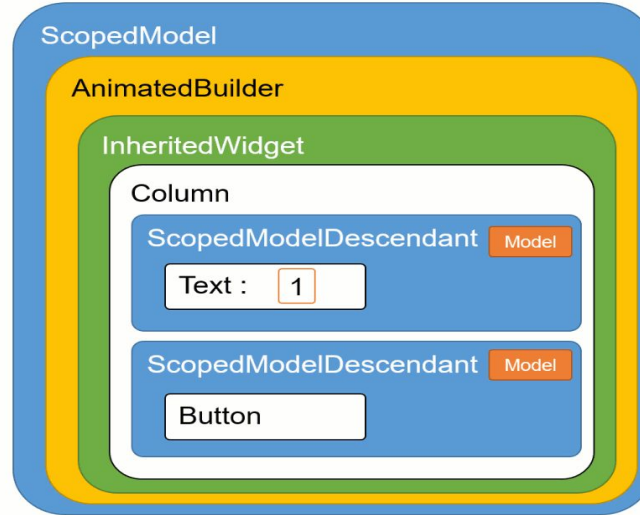
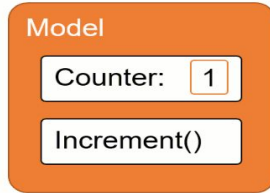# Arquiteturas

Arquiteturas - Redux
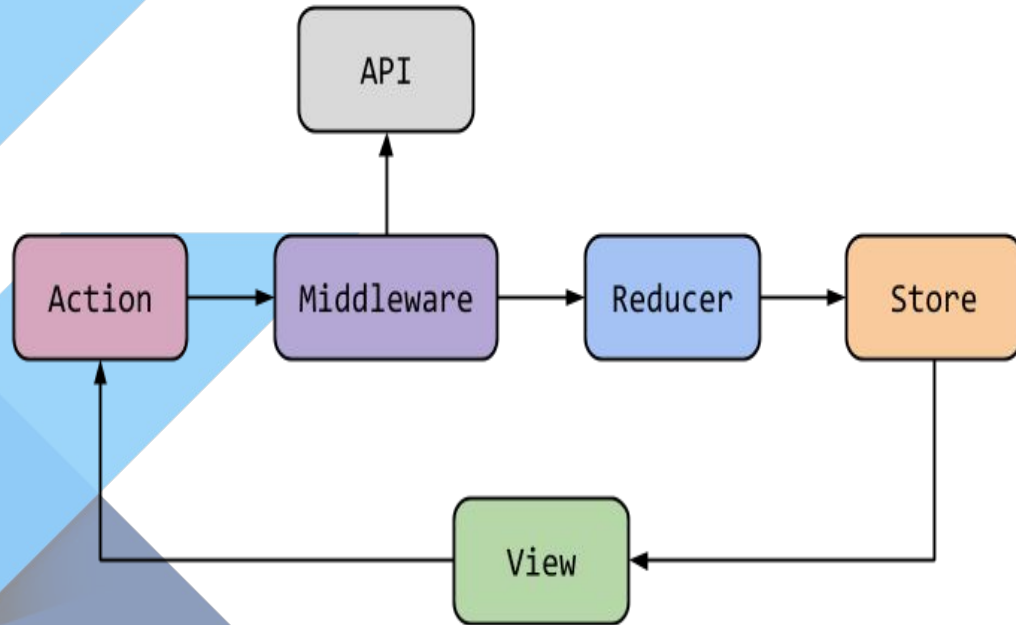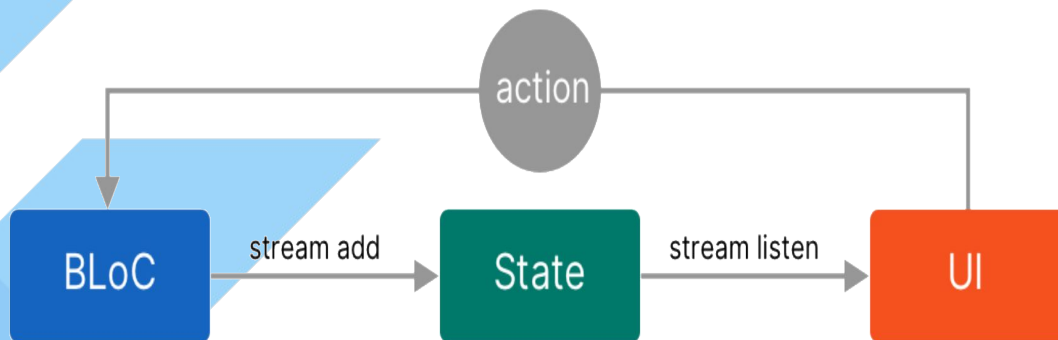
Arquiteturas - Redux

Arquiteturas - Scoped Model
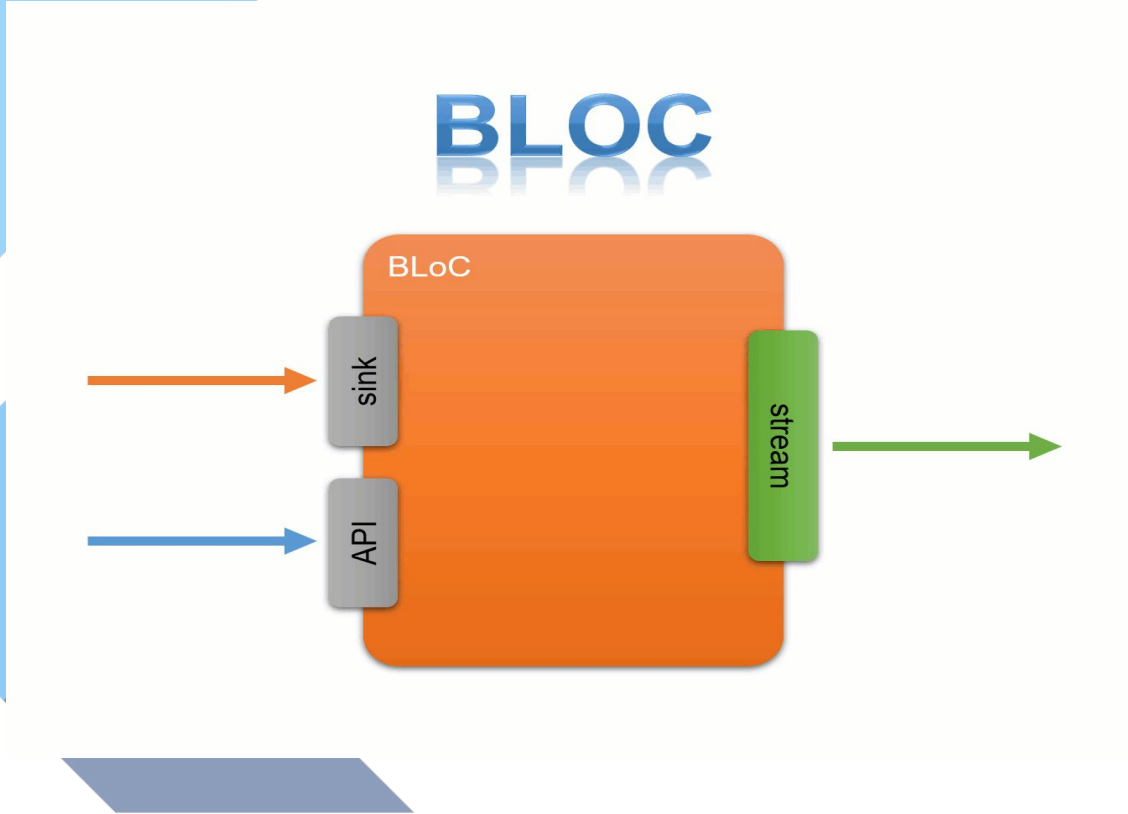
Arquiteturas - Scoped Model
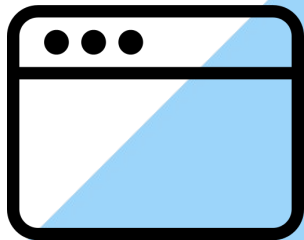
Arquiteturas - BLoC e Flutter BLoC

Arquiteturas - BLoC e. Flutter BLoC

Casos de uso

Fontes de informação

flutter.dev
startflutter.com
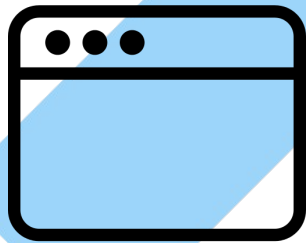flutterando.com.br

fb.com/groups/brflutter

youtube.com/flutterdev

github.com/brianegan/flutter_architecture_samples
github.com/iampawan/FlutterExampleApps

Cursos

flutter.dev/docs/codelabs

udemy.com/curso-completo-flutter-app-android-ios/
udacity.com/course/build-native-mobile-apps-with-flutter--ud905

Perguntas?

Obrigado

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