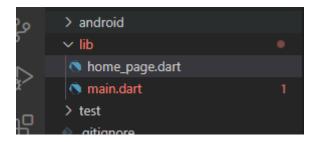
Mini Aplicação Flutter - Parte 02

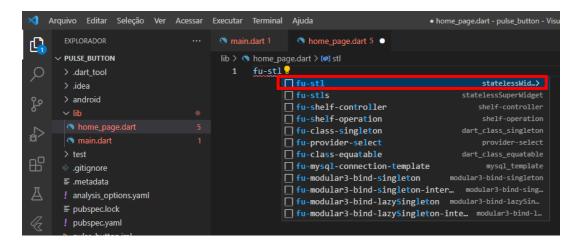
Flutter - Pulse Button - Vídeo do Youtube

https://www.youtube.com/watch?v=5JD1V--UoYo

1) Crie um arquivo chamado home_page.dart dentro da pasta lib



2) comece o código da home_page.dart digitando: fu-stl



Escolha a 1ª opção para criar um statelessWidget

3) Edite um texto do widget

```
lib > 🦠 home_page.dart > ...
      import 'package:flutter/material.dart';
      class HomePage extends StatelessWidget {
        const HomePage({Key? key}) : super(key: key);
        @override
        Widget build(BuildContext context) {
           return Scaffold(
             appBar: AppBar(
               title: const Text('Home Page'),
 10
             ), // AppBar
 11
             body: Container(),
 12
           ); // Scaffold
 13
 14
 15
 16
```

4) Corrija a referência para esta página no arquivo main.dart

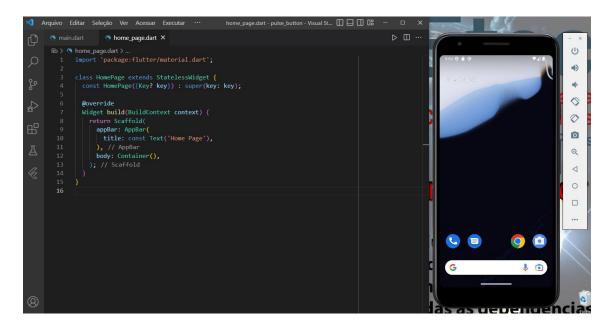
```
lib > 🐧 main.dart > 😭 MyApp > 😭 build
      import 'package:flutter/material.dart';
      Run | Debug | Profile
      void main() {
        runApp(const MyApp());
      class MyApp extends StatelessWidget {
        const MyApp({super.key});
        @override
        Widget build(BuildContext context) {
          return MaterialApp(
 11
            title: 'Flutter Demo',
 12
            theme: ThemeData(
              ), // ThemeData
           home: const HomePage(),
 16
 17
          ; // MaterialApp
 20
```

Repare que ainda aparece um erro. Isso se deve pelo fato de que as páginas criadas devem ser importadas em main.dart. Clique sobre a lanterna Amarela e escolha importar a página criada anteriormente (home_page.dart)

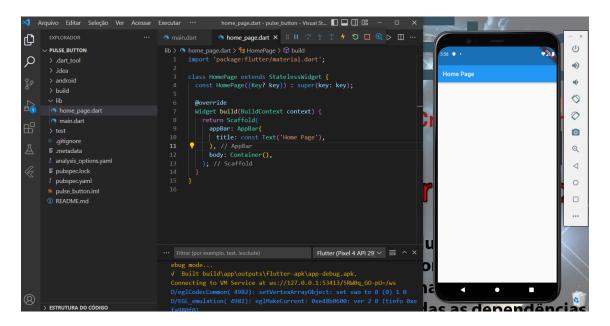
```
lib > <a> main.dart > </a> <a> MyApp > <a> build</a>
       import 'package:flutter/material.dart';
      void main() {
       runApp(const MyApp());
      class MyApp extends StatelessWidget {
        const MyApp({super.key});
         @override
         Widget build(BuildContext context) {
           return MaterialApp(
             title: 'Flutter Demo',
             theme: ThemeData(
              primarySwatch: ■Colors.blue,
              ), // ThemeData
            home: const HomePage(),
 16
        Correção Rápida.
          Import library 'home_page.dart'
          • Import library 'package:pulse Enter to Aplicar, Ctrl+Enter to Versão Prévia
          Extrair...
          Extract Method
          Extract Local Variable
```

```
lib > 🦠 main.dart > ...
       import 'package:flutter/material.dart';
      import 'home_page.dart';
       Run | Debug | Profile
       void main() {
         runApp(const MyApp());
       class MyApp extends StatelessWidget {
         const MyApp({super.key});
        @override
 11
        Widget build(BuildContext context) {
 12
           return MaterialApp(
 13
             title: 'Flutter Demo',
             theme: ThemeData(
               primarySwatch: ■Colors.blue,
             ), // ThemeData
 17
             home: const HomePage(),
           ); // MaterialApp
```

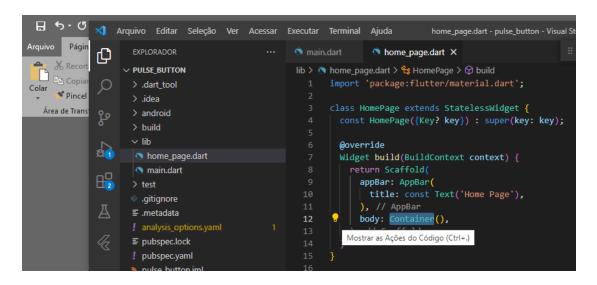
5) Abra um emulador do android studio.



6) Lance a aplicação clicando F5.



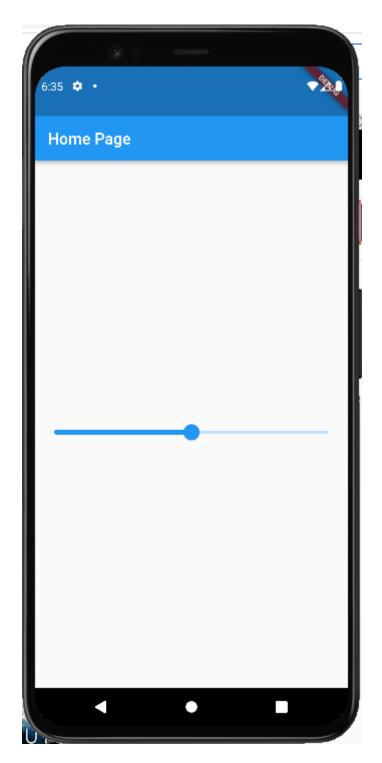
7) Agora vamos criar alguns componentes em nosso arquivo home_page.dart.
Selecione Container. Clique sobre a lâmpada amarela e escolha Wrap with
Collumn



```
), // AppBar
            body: Container(),
       Extrair...
        Extract Local Variable
        Extract Widget
        Mais Ações...
        Wrap with LayoutBuilder
        Wrap with Builder
        Wrap with Obx
        • Wrap with GetX
        Wrap with ValueListenableBuilder
        Wrap with Consumer
        Wrap with MobX Observer
D/eglC
        Wrap with widget...
D/eg10 💡 Wrap with Builder
        Wrap with Center
        Wrap with Column
           Wrap with Padding
                             Enter to Aplica
           Wrap with Row
          Wrap with SizedBox
        Wrap with StreamBuilder
```

Prepare este código conforme abaixo:

```
lib > 🐧 home_page.dart > 😭 HomePage
       import 'package:flutter/material.dart';
      class HomePage extends StatelessWidget {
        const HomePage({Key? key}) : super(key: key);
        @override
        Widget build(BuildContext context) {
           return Scaffold(
             appBar: AppBar(
              title: const Text('Home Page'),
             ), // AppBar
 11
            body: Center(
 12
               child: Column(
                 mainAxisAlignment: MainAxisAlignment.center,
                 children: [
                   Container(
                     color: ■Colors.red,
                   ), // Container
                  const SizedBox(
                   height: 20,
 21
                  ), // SizedBox
                  Slider(
                     value: 0.5,
                     onChanged: (value) {},
                   ), // Slider
               ), // Column
             ), // Center
           ); // Scaffold
      3
 31
```



8) Agora vamos inserir um botão. Crie um novo arquivo dentro da pasta lib chamado: pulse_button.dart

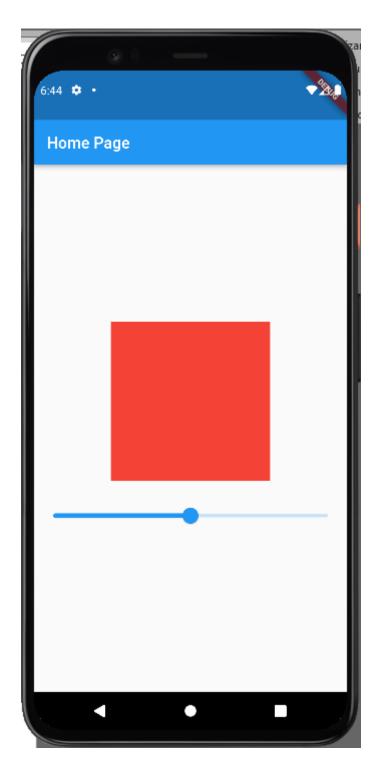
```
build
lib
home_page.dart
main.dart
pulse_button.dart
test
.gitignore
```

```
lib > 🦠 pulse_button.dart > 😭 PulseButton > 😭 build
       import 'package:flutter/material.dart';
      class PulseButton extends StatelessWidget {
        const PulseButton({Key? key}) : super(key: key);
        @override
        Widget build(BuildContext context) {
           return Scaffold(
             appBar: AppBar(
             title: const Text(''),
 10
             ), // AppBar
 11
            body: Container(),
 12
 13
           ); // Scaffold
```

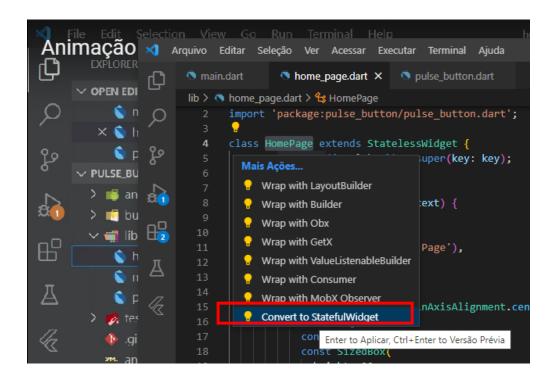
Edite o código:

Vá para a página home_page.dart e edite o código:

```
lib > 🐧 home_page.dart > ...
      import 'package:pulse_button/pulse_button.dart';
      class HomePage extends StatelessWidget {
        const HomePage({Key? key}) : super(key: key);
        @override
        Widget build(BuildContext context) {
          return Scaffold(
            appBar: AppBar(
 11
              title: const Text('Home Page'),
 12
            ), // AppBar
            body: Center(
 13
              child: Column(
                mainAxisAlignment: MainAxisAlignment.center,
                children: [
                  const PulseButton(),
                 const SizedBox(
                 height: 20,
                  ), // SizedBox
 21
                  Slider(
                    value: 0.5,
                    onChanged: (value) {},
                  ), // Slider
              ), // Column
            ), // Center
           ); // Scaffold
```



9) Repare que o Slider ainda não funciona. Vamos converter o HomePage para set State. Selecione HomePage e clique lâmpada amarela. Escolha a opção: convert to StateFullWidget.



```
lib > 🦠 home_page.dart > ધ _HomePageState > 😭 build
      import 'package:flutter/material.dart';
      import 'package:pulse_button/pulse_button.dart';
      class HomePage extends StatefulWidget {
        const HomePage({Key? key}) : super(key: key);
        @override
        State<HomePage> createState() => _HomePageState();
      class _HomePageState extends State<HomePage> {
        @override
        Widget build(BuildContext context) {
          return Scaffold(
            appBar: AppBar(
              title: const Text('Home Page'),
            ), // AppBar
            body: Center(
 18
              child: Column(
                mainAxisAlignment: MainAxisAlignment.center,
                children: [
                   const PulseButton(),
                  const SizedBox(
                   height: 20,
                   ), // SizedBox
                  Slider(
                    value: 0.5,
                    onChanged: (value) {},
                   ), // Slider
               ), // Column
            ), // Center
           ); // Scaffold
```

Faça mais algumas alterações:

```
class HomePageState extends State<HomePage> {
11
       var temperatura = 0.1;
12
       @override
       Widget build(BuildContext context) {
         return Scaffold(
           appBar: AppBar(
             title: const Text('Home Page'),
17
           ), // AppBar
           body: Center(
             child: Column(
21
               mainAxisAlignment: MainAxisAlignment.center,
               children: [
                 const PulseButton(),
                 const SizedBox(
                   height: 20,
                 ), // SizedBox
                 Slider(
                   value: temperatura,
                   onChanged: (value) {
                     setState(() {
31
                       temperatura = value;
                     B);
                 ). // Slider
```

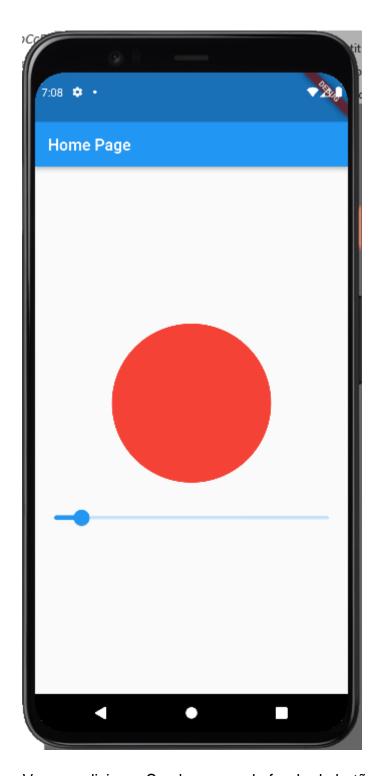
Repare que agora o Slider já deve funcionar.

Agora vamos enviar o valor do slider para dentro do botão vermelho que criamos.

Altere o arquivo pulse button.dart

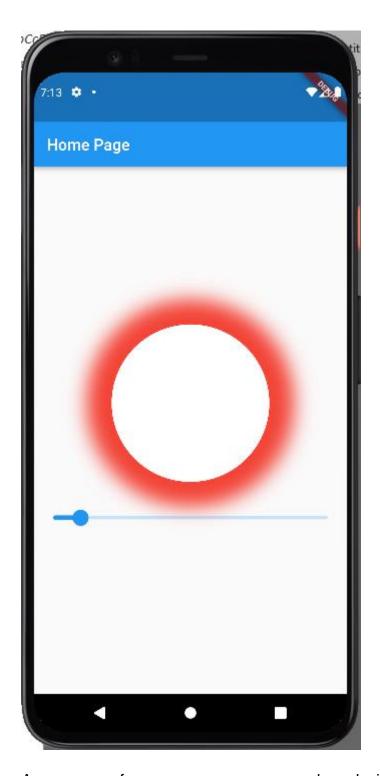
```
@override
       State<HomePage> createState() => _HomePageState();
     class HomePageState extends State<HomePage> {
       var temperatura = 0.1;
       @override
       Widget build(BuildContext context) {
         return Scaffold(
           appBar: AppBar(
            title: const Text('Home Page'),
           ), // AppBar
           body: Center(
            child: Column(
               mainAxisAlignment: MainAxisAlignment.center,
               children: [
                PulseButton(temperatura),
                const SizedBox(
                   height: 20,
                 ), // SizedBox
                 Slider(
                   value: temperatura,
                  onChanged: (value) {
                     setState(() {
                       temperatura = value;
           ), // Center
37
         ; // Scaffold
```

10) Vamos alterar o botão para um formato circular. Faça as seguintes alterações no código da página pulse_button.dart



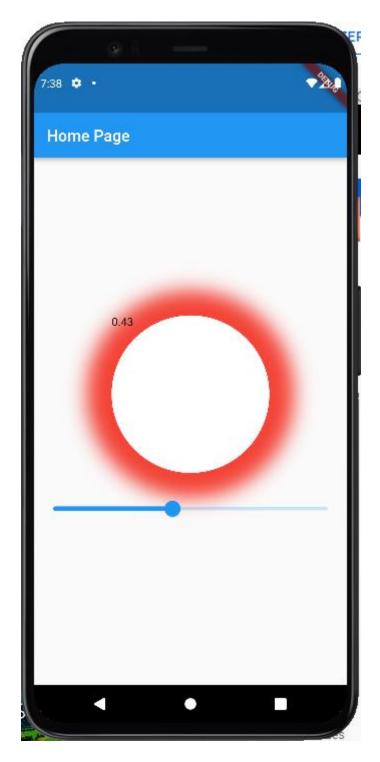
Vamos adicionar Sombra e cor de fundo do botão. Altere o código.

```
lib > 🦠 pulse_button.dart > ...
      import 'package:flutter/material.dart';
  3 ∨ class PulseButton extends StatelessWidget {
        final double temperatura;
        const PulseButton(this.temperatura, {Key? key}) : super(key: key);
        @override
        Widget build(BuildContext context) {
         return Container(
            width: 200,
            height: 200,
            decoration: BoxDecoration(
                color: ☐ Colors.white,
                shape: BoxShape.circle,
                border: Border.all(color: ■Colors.red),
                boxShadow: const [
                  BoxShadow(
                    color: ■Colors.red,
                    blurRadius: 20,
                    spreadRadius: 30,
                ]), // BoxDecoration
```



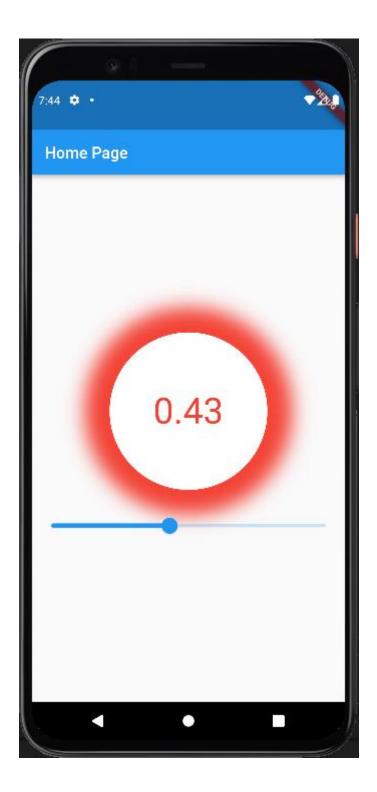
Agora vamos fazer com que apareça o valor selecionado pelo slider em um text.

```
lib > 🦠 pulse_button.dart > ...
      import 'package:flutter/material.dart';
      class PulseButton extends StatelessWidget {
        final double temperatura;
        const PulseButton(this.temperatura, {Key? key}) : super(key: key);
        @override
        Widget build(BuildContext context) {
          return Container(
            width: 200,
            height: 200,
            decoration: BoxDecoration(
                color: Colors.white,
                shape: BoxShape.circle,
                border: Border.all(color: ■Colors.red),
                boxShadow: const [
                  BoxShadow(
                    color: Colors.red,
                    blurRadius: 20,
                    spreadRadius: 30,
                 ) // BoxShadow
          ]), // BoxDecoration
           child: Text(temperatura.toStringAsPrecision(2)),
        ); // Container
```



Finalizando esta parte, vamos fazer somente mais alguns ajustes quanto a exibição do número no botão circular.

```
lib > 🤏 pulse_button.dart > ...
      import 'package:flutter/material.dart';
      class PulseButton extends StatelessWidget {
        final double temperatura;
        const PulseButton(this.temperatura, {Key? key}) : super(key: key);
        @override
        Widget build(BuildContext context) {
         return Container(
            width: 200,
            height: 200,
            decoration: BoxDecoration(
                color: ■Colors.white,
                shape: BoxShape.circle,
                border: Border.all(color: ■Colors.red),
                boxShadow: const [
                  BoxShadow(
                    color: ■Colors.red,
                    blurRadius: 20,
                    spreadRadius: 30,
            child: Center(
                child: Text(
              temperatura.toStringAsPrecision(2),
                  Theme.of(context).textTheme.headline3?.copyWith(color: ■Colors.red),
```



Fim até: 10:32