







Shared Preference é uma forma de armazenar pares chavevalor no armazenamento do dispositivo. Utiliza o NSUserDefaults no iOS e o SharedPreferences no Android. Permite o armazenamento, recuperação e remoção de valores do tipo int, double, bool, String e StringList. Pode ser usado como uma forma simples de persistência sem a necessidade de utilizar um banco de dados como SQLite. Também pode ser utilizado para armazenar a configuração da aplicação.



Crie uma nova aplicação Flutter com o nome sharedpreferences.

Altere o arquivo pubspec.yaml para incluir a dependência de shared_preference:

```
dependencies:
    shared_preferences: ^0.5.6+3
    flutter:
    sdk: flutter
```

Instale o pacote adicionado nas dependências.



Altere o arquivo main.dart:

```
import 'package:flutter/material.dart';
import 'package:shared_preferences/shared_preferences.dart';
import 'pages/home.dart';
main() async {
  WidgetsFlutterBinding.ensureInitialized();
  SharedPreferences _prefs = await
SharedPreferences.getInstance();
  if ( !_prefs.containsKey("counter"/)
    _prefs.setInt('counter', 0);
  runApp(MyApp(_prefs));
```



```
class MyApp extends StatelessWidget {
  SharedPreferences _prefs;
  MyApp(this._prefs) : super();
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: 'Flutter Demo',
      theme: ThemeData(
        primarySwatch: Colors.blue,
        visualDensity:
VisualDensity.adaptivePlatformDensity,
      home: Home(prefs:_prefs),
```



Crie o subdiretório lib/pages e crie o arquivo home.dart no diretório lib/pages:

```
import 'package:flutter/material.dart';
import 'package:shared_preferences/shared_preferences.dart';
class Home extends StatefulWidget {
   SharedPreferences prefs;

Home({Key key, this.prefs}) : super(key: key);

@override
   _HomeState createState() => _HomeState();
}
```



Acrescente a classe para gerenciar o estado da tela no arquivo home.dart:

```
class _HomeState extends State<Home> {
    @override
    Widget build(BuildContext context) {
      return Scaffold(
        appBar: AppBar(
        title: Text("Shared Preferences"),
      ),
```



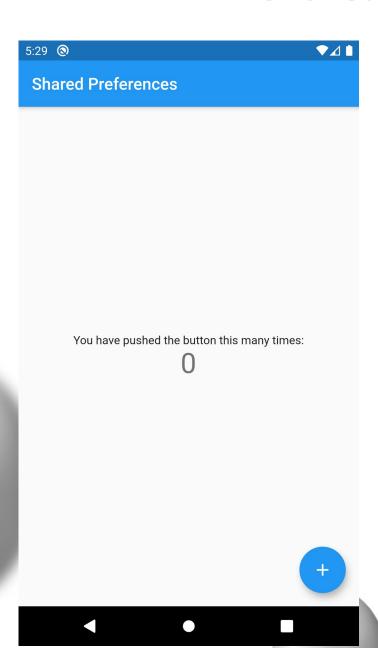
```
body: Center(
  child: Column(
    mainAxisAlignment: MainAxisAlignment.center,
    children: <Widget>[
      Text(
        'You have pushed the button this many times:',
      Text(
        '${widget.prefs.getInt("counter")}',
        style: Theme.of(context).textTheme.display1,
floatingActionButton: FloatingActionButton(
  onPressed: _incrementCounter,
  tooltip: 'Increment',
  child: Icon(Icons.add),
```

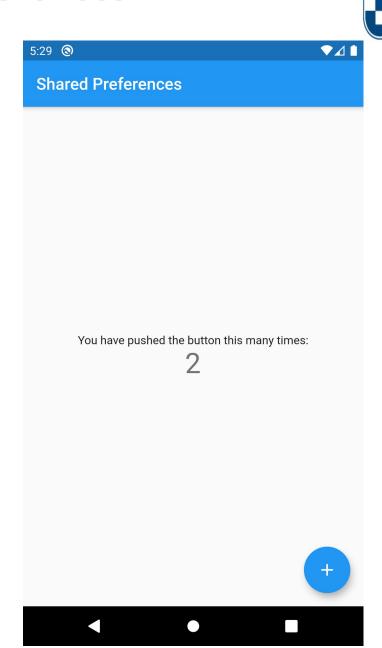


Acrescente o método para incrementar o contado na classe

```
_HomeState:
```

```
void _incrementCounter() {
    setState(() {
        widget.prefs.setInt('counter',
widget.prefs.getInt("counter")+1);
    });
}
```







O pacote preferences provê widgets para facilitar a criação de uma tela para edição das shared preferences.

Crie uma nova aplicação Flutter com o nome preferences_app.

Altere o arquivo pubspec.yaml para incluir as dependências:

```
dependencies:
   preferences: ^5.1.0
   dynamic_theme:
   flutter:
     sdk: flutter
```

Instale os pacotes adicionados nas dependências.



Altere o arquivo main.dart:

```
import 'package:flutter/material.dart';
import 'package:preferences/preferences.dart';
import 'package:dynamic_theme/dynamic_theme.dart';
import 'pages/home.dart';
import 'utils/theme.dart';
void main() async {
  WidgetsFlutterBinding.ensureInitialized();
 await PrefService.init(prefix: 'pref_/');
  PrefService.setDefaultValues({'brightness': 'light'});
 PrefService.setDefaultValues({'color/://Blue'});
 PrefService.setDefaultValues({ /tit/le/:/Preferences | });
  PrefService.setDefaultValues({/'show_label': true});
  PrefService.setDefaultValues({'show_counter': true});
  PrefService.setDefaultValues({'action_increment': true});
 PrefService.setDefaultValues({'action_decrement': true});
  PrefService.setDefaultValues({'counter': 0});
  runApp(MyApp());
```



```
class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return DynamicTheme(
      defaultBrightness: Brightness.light,
      data: (brightness) => getTheme(),
      themedWidgetBuilder: (context, theme) {
        return MaterialApp(
          debugShowCheckedModeBanner:/false,
          title: 'Preferences Demo',
          theme: theme,
          home: Home(),
```



Crie os subdiretórios lib/utils e crie o arquivo theme.dart no diretório lib/utils:

```
import 'package:flutter/material.dart';
import 'package:preferences/preferences.dart';
ThemeData getTheme() {
 String _brightnessValue =
PrefService.getString('brightness');
  Brightness _brightness = Brightness.light;
  if ( _brightnessValue == "dark")
   _brightness = Brightness.dark;
 String _colorValue = PrefService.getString('color');
  Color _color = Colors.blue;
  if ( _colorValue == "Green")
    _color = Colors.green;
  else if ( _colorValue == "Red")
    _color = Colors.red;
  return ThemeData(
    brightness: _brightness,
    primaryColor: _color, );
```



Crie os subdiretórios lib/pages e crie o arquivo home.dart no diretório lib/pages:

```
import 'package:flutter/material.dart';
import 'package:preferences/preferences.dart';
import 'configuration.dart';

class Home extends StatefulWidget {
    @override
    _HomeState createState() => _HomeState();
}
```



Acrescente a classe para gerenciar o estado da tela no arquivo home.dart:

```
class _HomeState extends State<Home> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text(PrefService.getString('title')),
        actions: <Widget>[
          IconButton(icon: Icon(Icons.settings),
            onPressed: () async {
              await Navigator.push(context,
                MaterialPageRoute(builder: (context) =>
Configuration()),
              setState(() {});
```



```
body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: <Widget>[
            Text(PrefService.getBool('show_label')?
              'You have pushed the button this many times:'
              :"No Label",
            Text(PrefService.getBool('show_counter')?
              '${PrefService.getInt('counter')}':"No
Counter",
              style: Theme.of(context).textTheme.display1,
```



```
floatingActionButton: Row(
        mainAxisAlignment: MainAxisAlignment.spaceEvenly,
        children: <Widget>[
          FloatingActionButton(
            onPressed:
PrefService.getBool('action_decrement')?
              _decrementCounter:null,
            tooltip: 'Decrement',
            child: Icon(Icons.remove),
            backgroundColor:
PrefService.getBool('action_decrement')?
              Colors.tealAccent:Colors.grey,
            heroTag: null
          ),
```



```
FloatingActionButton(
            onPressed:
PrefService.getBool('action_increment')?
              _incrementCounter:null,
            tooltip: 'Increment',
            child: Icon(Icons.add),
            backgroundColor:
PrefService.getBool('action_increment')?
              Colors.tealAccent:Colors.grey,
            heroTag: null
```



Acrescente o método para incrementar o contado na classe _HomeState:

```
void _incrementCounter() {
    setState(() {
        PrefService.setInt('counter',
PrefService.getInt('counter')+1);
    });
}
```

Acrescente o método para decrementar o contado na classe

```
_HomeState:
```

```
void _decrementCounter() {
    setState(() {
        PrefService.setInt('counter',
PrefService.getInt('counter')-1);
    });
}
```



Crie o arquivo configuration.dart no diretório lib/pages:

```
import 'package:flutter/material.dart';
import 'package:preferences/preferences.dart';
import 'package:dynamic_theme/dynamic_theme.dart';
import '../utils/theme.dart';

class Configuration extends StatefulWidget {
    @override
    _ConfigurationState createState() =>
_ConfigurationState();
}
```



Acrescente a classe para gerenciar o estado da tela no arquivo configuration.dart:

```
class _ConfigurationState extends State<Configuration> {
    @override
    Widget build(BuildContext context) {
       return Scaffold(
        appBar: AppBar(
            title: Text("Configuracao"),
        ),
        body: PreferencePage([
            PreferenceTitle('Theme'),
```



```
PreferenceDialogLink(
          'Brightness',
          dialog: PreferenceDialog(
              RadioPreference('Light', 'light',
'brightness',
                onSelect: () =>
DynamicTheme.of(context).setThemeData(getTheme()),
              RadioPreference('Dark',//dark',/brightness',
                onSelect: () =>
DynamicTheme.of(context).setThemeData(getTheme()),
            title: 'Select an option'
            cancelText: 'Close',
```



```
DropdownPreference('Color',
          'color',
          defaultVal: 'Blue',
          values: ['Blue', 'Green', 'Red'],
          onChange: (_value) =>
DynamicTheme.of(context).setThemeData(getTheme()),
        PreferenceTitle('Content'),
        PreferenceDialogLink('Show'
          dialog: PreferenceDialog(
              CheckboxPreference('Label', / 'show_label'),
              CheckboxPreference(/Counter', 'show_counter'),
            title: 'Enabled Content'
            cancelText: 'Cancel',
            submitText: 'Save',
            onlySaveOnSubmit: true,
```

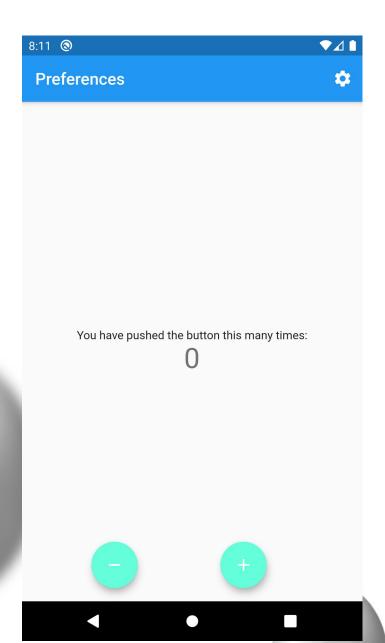


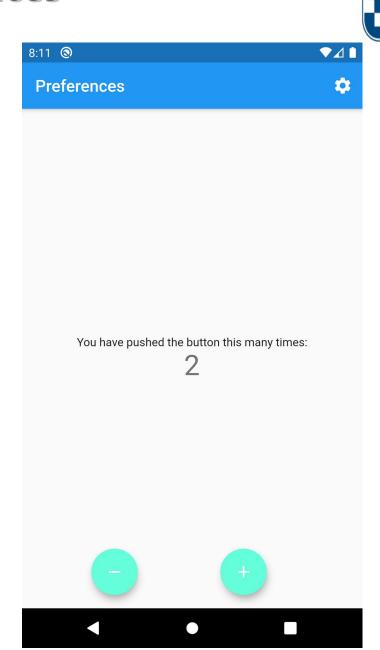
```
PreferencePageLink(
  'Actions',
  leading: Icon(Icons.code),
  trailing: Icon(Icons.keyboard_arrow_right),
  page: PreferencePage([
    PreferenceTitle('Enable'),
    SwitchPreference(
      'Increment',
      'action_increment',
      defaultVal: true,
      desc: 'Enable incremment buttom',
    SwitchPreference(
      'Decrement',
      'action_decrement'
      defaultVal: true,
      desc: 'Enable decremment buttom'
  ]),
```



```
PreferenceTitle('Advanced'),
CheckboxPreference(
  'Enable Advanced Features',
  'advanced_enabled',
  onChange: () => setState(() {}),
),
PreferenceHider([
  TextFieldPreference(
    'Title',
    'title',
], '!advanced_enabled'),
```









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