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Cheat Sheet

# Flutter For Dummies Cheat Sheet



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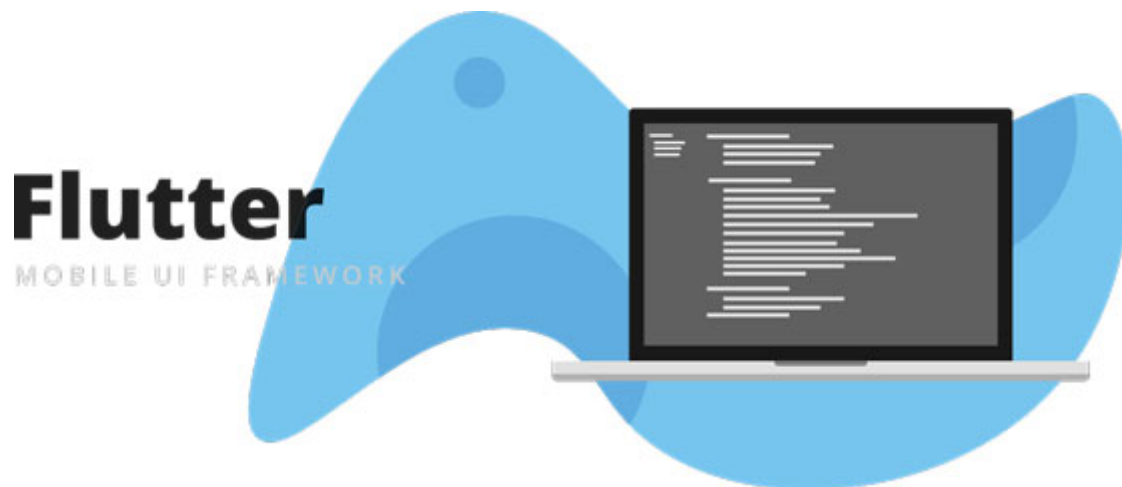
**Flutter For Dummies**

By **Barry Burd**

Flutter's **online documentation** is a great source of information, but sometimes you'd rather glance quickly at an example. This cheat sheet has some sample code. Just grab it and go!

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(To grab this code, visit **All My Code**.)



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## A "Hello World" Dart Program

```
main() => print('Hello World');
```

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## A "Hello World" Flutter Program

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

main() => runApp(HelloApp());

class HelloApp extends StatelessWidget {
  Widget build(BuildContext context) {
    return MaterialApp(
      home: Material(
        child: Text("Hello world!"),
      ),
    );
  }
}
```

## A Simple Scaffold

```
Scaffold(  
  appBar: AppBar(  
    title: Text("I'm aan AppBar."),  
  ),  
  body: Center(  
    child: Text("I'm a Text widget."),  
  ),  
  floatingActionButton: FloatingActionButton(  
    child: Icon(Icons.ac_unit),  
  ),  
  drawer: Drawer(  
    child: Center(child: Text("I'm a drawer.")),  
  ),  
)
```

## A Cupertino App

```
import 'package:flutter/cupertino.dart';  
  
void main() => runApp(CupterinoApp());  
  
class CupterinoApp extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return CupertinoApp(  
      home: CupertinoPageScaffold(  
        navigationBar: CupertinoNavigationBar(  
          backgroundColor: Color.fromRGBO(66, 165, 245, 1.0),  
          middle: Text("I'm a navigation bar"),  
        ),  
        child: Center(  
          child: Text('Hello from Cupertino, California!'),  
        ),  
      ),  
    );  
  }  
}
```

## A Column

```
Column(  
  mainAxisAlignment: MainAxisAlignment.center,  
  children: [  
    Text("I'm on top."),  
    Text("I'm in the middle."),  
    Text("I'm the bottom."),  
  ],  
)
```

---

## Responding to a Button Press

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

void main() => runApp(ButtonDemo());

class ButtonDemo extends StatelessWidget {
  Widget build(BuildContext context) {
    return MaterialApp(
      home: MyHomePage(),
    );
  }
}

class MyHomePage extends StatefulWidget {
  _MyHomePageState createState() => _MyHomePageState();
}

class _MyHomePageState extends State {
  String _whatToDisplay;
  void initState() {
    _whatToDisplay = 'Click Me';
  }

  void _doSomething() {
    setState(() {
      _whatToDisplay = 'Thank you for clicking';
    });
  }

  Widget build(BuildContext context) {
    return Scaffold(
      body: Center(
        child: RaisedButton(
          child: Text(_whatToDisplay),
          onPressed: _doSomething,
        ),
      ),
    );
  }
}
```

---

## Some Useful Layout Widgets

```
Material(  
  child: SafeArea(  
    child: Column(  
      children: [  
        Expanded(  
          child: Container(  
            height: 50.0,  
            color: Colors.blue,  
          ),  
        ),  
        SizedBox(  
          height: 50.0,  
        ),  
        Container(  
          alignment: Alignment.bottomRight,  
          height: 100.0,  
          color: Colors.blue,  
          child: Padding(  
            padding: const EdgeInsets.all(20.0),  
            child: Text(  
              'Hello',  
              style: TextStyle(backgroundColor: Colors.red),  
            ),  
          ),  
        ),  
      ],  
    ),  
  ),  
)
```

---

## A Text Field

```
class _MyHomePageState extends State {  
  final _myController = TextEditingController();  
  
  @override  
  void dispose() {  
    _myController.dispose();  
    super.dispose();  
  }  
  
  @override  
  Widget build(BuildContext context) {  
    return Material(  
      child: Center(  
        child: Column(  
          mainAxisAlignment: MainAxisAlignment.center,  
          children: [  
            TextField(  
              decoration: InputDecoration(labelText: "Type something:"),  
              controller: _myController,  
            ),  
            RaisedButton(  
              child: Text("UPPERCASE"),  
              onPressed: () =>  
                _myController.text = _myController.text.toUpperCase(),  
            ),  
          ],  
        ),  
      ),  
    );  
  }  
}
```

---

## A Slider

```
class _MyHomePageState extends State {  
  double _sliderValue = 1.0;  
  
  void _refreshSlider(double newValue) {  
    setState(() {  
      _sliderValue = newValue;  
    });  
  }  
  
  @override  
  Widget build(BuildContext context) {  
    return Material(  
      child: Center(  
        child: Column(  
          mainAxisAlignment: MainAxisAlignment.center,  
          children: [  
            Text(_sliderValue.toStringAsFixed(2)),  
            Slider(  
              value: _sliderValue,  
              onChanged: _refreshSlider,  
              min: 1.0,  
              max: 10.0,  
            ),  
          ],  
        ),  
      ),  
    );  
  }  
}
```

---

## Radio Buttons



```

class _MyHomePageState extends State {
  int _radioValue;

  void _refreshRadio(int newValue) {
    setState(() {
      _radioValue = newValue;
    });
  }

  @override
  Widget build(BuildContext context) {
    return Material(
      child: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          children: [
            Text(_radioValue?.toString() ?? 'Select One'),
            Row(
              mainAxisAlignment: MainAxisAlignment.center,
              children: [
                Text('0'),
                Radio(
                  value: 0,
                  groupValue: _radioValue,
                  onChanged: _refreshRadio),
                Text('1'),
                Radio(
                  value: 1,
                  groupValue: _radioValue,
                  onChanged: _refreshRadio),
                Text('2'),
                Radio(
                  value: 2,
                  groupValue: _radioValue,
                  onChanged: _refreshRadio,
                ),
              ],
            ),
          ],
        ),
      ),
    );
  }
}

```

---

## Basic Navigation

```
class FirstPage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Material(
      child: Center(
        child: RaisedButton(
          child: Text('Go to second page'),
          onPressed: () {
            Navigator.push(
              context,
              MaterialPageRoute(
                builder: (context) => SecondPage(),
              ),
            );
          },
        ),
      ),
    );
  }
}

class SecondPage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Material(
      child: Center(
        child: RaisedButton(
          onPressed: () {
            Navigator.pop(context);
          },
          child: Text('Go back!'),
        ),
      ),
    );
  }
}
```

---

## A List

```
List movieName = [
  "Casablanca",
  "Citizen Kane",
  "Lawrence of Arabia",
];

ListView.builder(
  itemCount: movieName.length,
  itemBuilder: (context, index) {
    return ListTile(
      title: Text(movieName[index]),
      onTap: () => _goToDetailPage(movieName[index]));
  },
)
```

---

## Animation

```
class MyHomePageState extends State
  with SingleTickerProviderStateMixin {
  Animation animation;
  AnimationController controller;

  @override
  void initState() {
    super.initState();
    controller =
      AnimationController(duration: const Duration(seconds: 3), vsync: this);
    animation = Tween(begin: 100.0, end: 500.0).animate(controller)
      ..addListener(() {
        setState(() {});
      });
    controller.forward();
  }

  @override
  Widget build(BuildContext context) {
    return Material(
      child: Stack(
        children: [
          Positioned(
            left: 150.0,
            top: animation.value,
            child: Icon(
              Icons.music_note,
              size: 70.0,
            ),
          ),
        ],
      ),
    );
  }

  @override
  void dispose() {
    controller.dispose();
    super.dispose();
  }
}
```

---

## About the Book Author

**Barry Burd, PhD**, is a veteran educator and a professor of mathematics and computer science at Drew University. When he's not lecturing at the university, Barry speaks at professional conferences and somehow finds time to write books, including *Java For Dummies* and *Beginning Programming with Java For Dummies*.

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