

Flutter Cheatsheet

Create a new Flutter project:

```
pe>cd documents  
  
pe\Documents>cd flutter_dev  
  
pe\Documents\flutter_dev>cd flutter_projects  
  
pe\Documents\flutter_dev\flutter_projects>flutter create --org com.fluttemapp my_app_name
```

Key concept:

Flutter is Widget inside Widget

- Add a **Widget**
- Add an **argument** in the **Widget** (Ctrl+space) (Command+space for mac)
- Add another **Widget** in the **argument**

Widgets ALWAYS start with a **capital letter**.

Arguments ALWAYS start with a **lowercase letter**.

In this example:

- Scaffold is a Widget
- appBar is an argument of the Scaffold Widget
- AppBar is a Widget placed inside the appBar argument.
- title is an argument of the AppBar Widget
- Text is a Widget placed inside the title argument.

Remember, it's Widget inside Widget..!

```
return Scaffold(  
  appBar: AppBar(  
    title: const Text('Mapp blog'),  
  ), // AppBar
```

Commands:

Ctrl+space (check the available [arguments](#))

Ctrl+b (Hide/show the explorer)

Ctrl+j (Hide/show the terminal)

Ctrl+Maj+f (Make a search in every files)

Ctrl+f (Search in the current file)

Shift+alt+f (format document)

Ctrl+s (Save and format document)

Ctrl+shift+r (Refactor, which is used to wrap with another Widget)

- Note: You can right click to see the commands

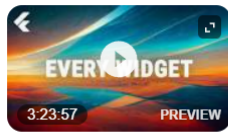
Basic Widgets:

- Scaffold
- AppBar
- Text
- Center
- Column
- Row
- Wrap
- SizedBox
- Image.asset
- ElevatedButton
- Container
- ListTile
- SingleChildScrollView
- Drawer
- SafeArea
- Drawerheader

If you want a list of every flutter widget, you can watch this video on YouTube:

[https://www.youtube.com > watch](https://www.youtube.com/watch?v=...)

Every Flutter Widget Explained! - YouTube



This is **every Flutter Widget** ever created by the **Flutter** Team.
You will find **every Widget** available in the **Widget** Catalog and...

YouTube · Flutter Mapp · 6 days ago

If you want my top 70 Widgets, you can watch this video on YouTube:

[https://www.youtube.com > watch](https://www.youtube.com/watch?v=...)

Best Flutter Widgets EVER! - YouTube



This is the best **Flutter Widget** that **every Flutter** dev should know. Complete **Widgets** list down below in the description Thi...

YouTube · Flutter Mapp · Oct 9, 2022

Create a Variable:

```
String text = 'This is a text';  
int number = 2;  
double decimalNumber = 0.5;
```

Navigator (Change pages):

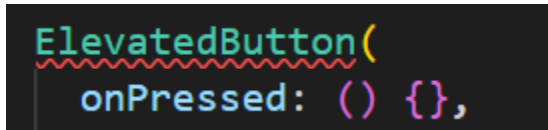
- push (add a page over this one)
- pushReplacement (replace the current page with this new one)
- pop (remove the current page)

This is an example:

```
onTap: () {  
  Navigator.of(context).push(  
    MaterialPageRoute(  
      builder: (context) {  
        return const HomePage();  
      },  
    ), // MaterialPageRoute  
  );  
},
```

Solve errors:

Type 1: Red underline

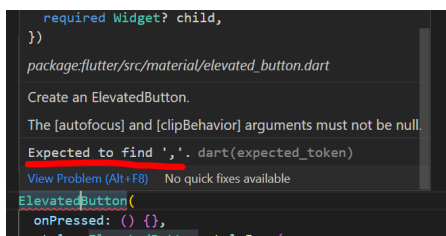


```
ElevatedButton(  
  onPressed: () {},
```

1. Put your mouse over the Widget
2. A box will appear, scroll down at the bottom
3. Read the error



```
ElevatedButton(  
  onPressed: () {},  
  style: ElevatedButton.styleFrom(  
    shape: const StadiumBorder(),  
    backgroundColor: Colors.white,  
    foregroundColor: Colors.redAccent,  
  ),  
  child: const Text('Mexican'),  
) // ElevatedButton  
ElevatedButton(  
  onPressed: () {},  
  style: ElevatedButton.styleFrom(  
    shape: const StadiumBorder(),  
    backgroundColor: Colors.white,  
    foregroundColor: Colors.redAccent,  
  ),  
  child: const Text('Pizzerias'),  
) // ElevatedButton
```

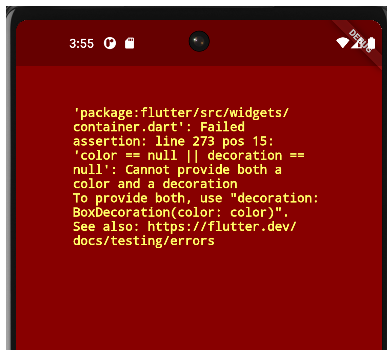


```
required Widget? child,  
)  
package:flutter/src/material/elevated_button.dart  
Create an ElevatedButton.  
The [autofocus] and [clipBehavior] arguments must not be null.  
Expected to find '\',\' . dart(expected_token)  
View Problem (Alt+F8) No quick fixes available  
ElevatedButton(  
  onPressed: () {},  
  style: ElevatedButton.styleFrom(  
    shape: const StadiumBorder(),  
    backgroundColor: Colors.white,  
    foregroundColor: Colors.redAccent,  
  ),  
  child: const Text('Pizzerias'),  
)
```

In this example:

1. Read: Expected to find ,
2. Each Widget in a list needs to be separated by a comma “,”.
3. This will solve your problem

Type 2: Red Screen



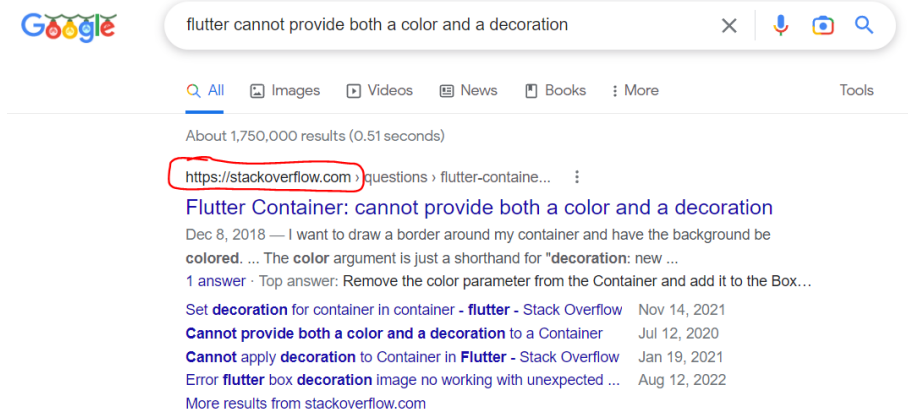
1. Read the error on the screen
2. Check in the terminal for more information

```
TERMINAL  PROBLEMS  OUTPUT  DEBUG CONSOLE  Filter (e.g. text, exclude)  ^ x
package:flutter/src/widgets/container.dart: Failed assertion: line 273 pos 15: 'color == null || decoration == null': Cannot provide both a color and a decoration. To provide both, use 'decoration: BoxDecoration(color: color)'. See also: https://flutter.dev/docs/testing/errors
package:flutter/src/widgets/container.dart: Failed assertion: line 273 pos 15: 'color == null || decoration == null'

The relevant error-causing widget was
MyHomePage
When the exception was thrown, this was the stack
#2      new Container
#3      _MyHomePageState.build
#4      StatefulElement.build
#5      ComponentElement.performRebuild
#6      StatefulElement.performRebuild
#7      Element.rebuild

package:flutter/src/widgets/container.dart:273
package:my_first_app/main.dart:101
package:flutter/src/widgets/framework.dart:4992
package:flutter/src/widgets/framework.dart:4878
package:flutter/src/widgets/framework.dart:5050
package:flutter/src/widgets/framework.dart:4604
```

3. The top link will show you where the error is from
4. If you can't understand, google search the error (Flutter ['Your error'])



5. Find the solution on StackOverFlow, unusually it's one of the top answers



Stateless vs Stateful

StatelessWidget = Screen doesn't refresh

StatefulWidget = Screen can refresh

setState need to be used in the StatefulWidget in order to refresh the screen:

```
setState(() {});
```

Send arguments in other pages:

Case 1: StatelessWidget

- Create your second page (stateless)
- Add the required this. (2nd red line)
- Add the final (3rd red line)
- Use the argument (4th red line, this is a String in this example but it can be anything)

```
class NextPage extends StatelessWidget {  
  const NextPage({  
    super.key,  
    required this.title,  
  });  
  
  final String title;  
  
  @override  
  Widget build(BuildContext context) {  
    return Text(title);  
  }  
}
```

```
onTap: () {  
  Navigator.of(context).push(  
    MaterialPageRoute(  
      builder: (context) {  
        return const NextPage(title: 'Flutter Mapp');  
      },  
    ), // MaterialPageRoute  
  );  
},
```

Case 2: StatefulWidget

- Create your second page (stateful)
- Add the required this. (2nd red line)
- Add the final (3rd red line)
- Use the argument with a widget. (4th red line, make sure to use the widget.yourArgument)
-

```
class NextPage extends StatefulWidget {  
  const NextPage({  
    super.key,  
    required this.title,  
  });  
  
  final String title;  
  
  @override  
  State<NextPage> createState() => _NextPageState();  
}  
  
class _NextPageState extends State<NextPage> {  
  @override  
  Widget build(BuildContext context) {  
    return Text(widget.title);  
  }  
}
```