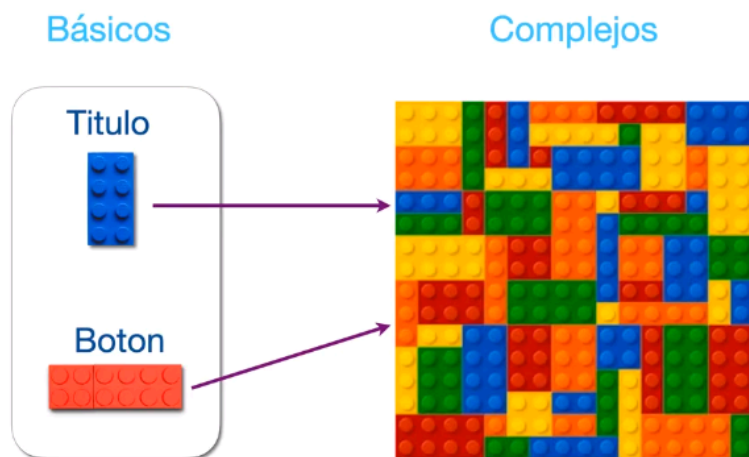


¿Que es un Widget en Flutter?

“En Flutter casi todo es un Widget”



Un widget es un elemento de una interfaz gráfica de usuario (GUI) que muestra información o proporciona una forma específica para que un usuario interactúe con el sistema operativo o una aplicación .

Widgets básicos

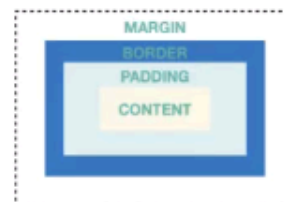
Stack

```
Stack(  
  children: <Widget>[  
    Container(  
      width: 100,  
      height: 100,  
      color: Colors.red,  
    ),  
    Container(  
      width: 90,  
      height: 90,  
      color: Colors.green,  
    ),  
    Container(  
      width: 80,  
      height: 80,  
      color: Colors.blue,  
    ),  
  ],  
)
```



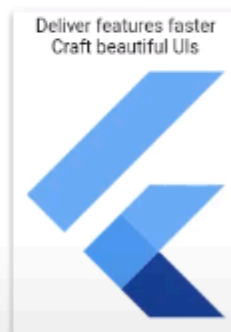
Container

```
Center(  
  child: Container(  
    margin: const EdgeInsets.all(10.0),  
    color: Colors.amber[600],  
    width: 48.0,  
    height: 48.0,  
  ),  
)
```



Column

```
Column(  
  children: <Widget>[  
    Text('Deliver features faster'),  
    Text('Craft beautiful UIs'),  
    Expanded(  
      child: FittedBox(  
        fit: BoxFit.contain,  
        child: const FlutterLogo(),  
      ),  
    ),  
  ],  
)
```



Icon

```
Row(  
  mainAxisAlignment: MainAxisAlignment.spaceAround,  
  children: const <Widget>[  
    Icon(  
      Icons.favorite,  
      color: Colors.pink,  
      size: 24.0,  
      semanticLabel: 'Text to announce in accessibility modes',  
    ),  
    Icon(  
      Icons.audiotrack,  
      color: Colors.green,  
      size: 30.0,  
    ),  
    Icon(  
      Icons.beach_access,  
      color: Colors.blue,  
      size: 36.0,  
    ),  
  ],  
)
```



Image

```
const Image(  
  image: NetworkImage('https://flutter.github.io/assets-for-api-docs/assets/widgets/owl.jpg'),  
)
```



Scaffold

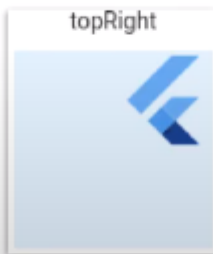
```
int _count = 0;  
Widget build(BuildContext context) {  
  return Scaffold(  
    appBar: AppBar(  
      title: const Text('Sample Code'),  
    ),  
    body: Center(  
      child: Text('You have pressed the button $_count times. '),  
    ),  
    floatingActionButton: FloatingActionButton(  
      onPressed: () => setState(() => _count++),  
      tooltip: 'Increment Counter',  
      child: const Icon(Icons.add),  
    ),  
  );  
}
```

Sample Code

You have pressed the button 0 times.

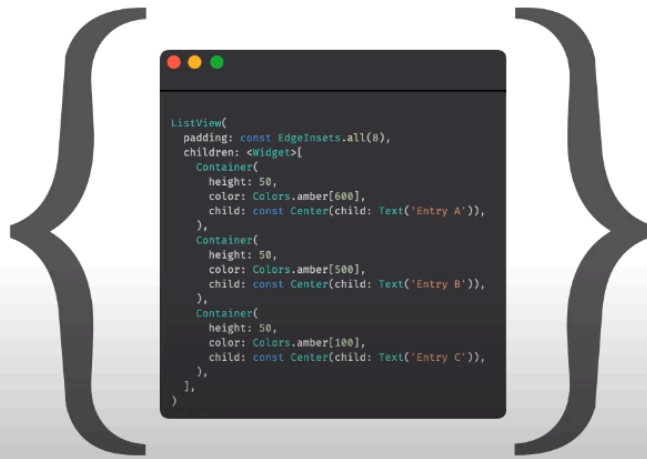


Align



```
Center(  
  child: Container(  
    height: 120.0,  
    width: 120.0,  
    color: Colors.blue[50],  
    child: Align(  
      alignment: Alignment.topRight,  
      child: FlutterLogo(  
        size: 60,  
      ),  
    ),  
  ),  
)
```

ListView





Stateless Widgets

1

Never Changes

2

Static

3

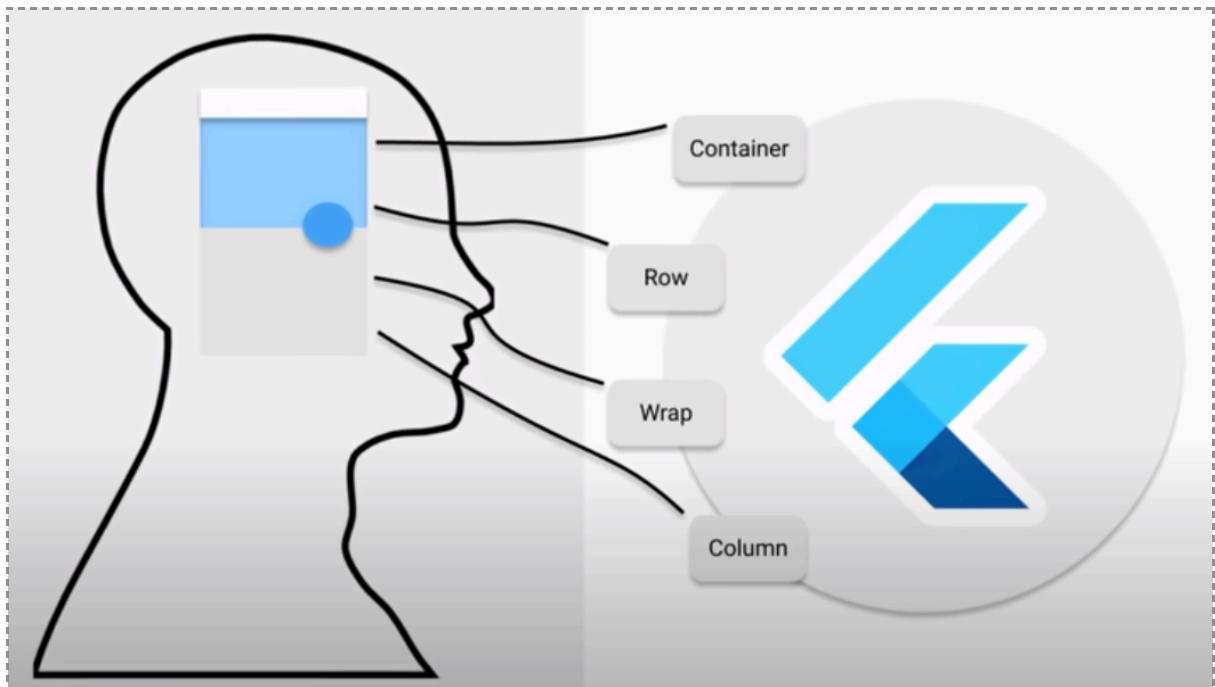
Cannot be Redrawn

4

Subclass of StatelessWidget

5

Override build method



Examples

There are many StatelessWidget available in the Flutter. **Some of them are showing here.**

1

Icon

2

IconButton

3

Text

4

AppBar

When to use?



When we don't need to redraw the UI on user interaction and changes.

Don't worry!

Stateful Widgets



Stateful
Widgets

- 1 Can change
- 2 Dynamic
- 3 Can be redrawn
- 4 Subclass of StatefulWidget
- 5 Override createState

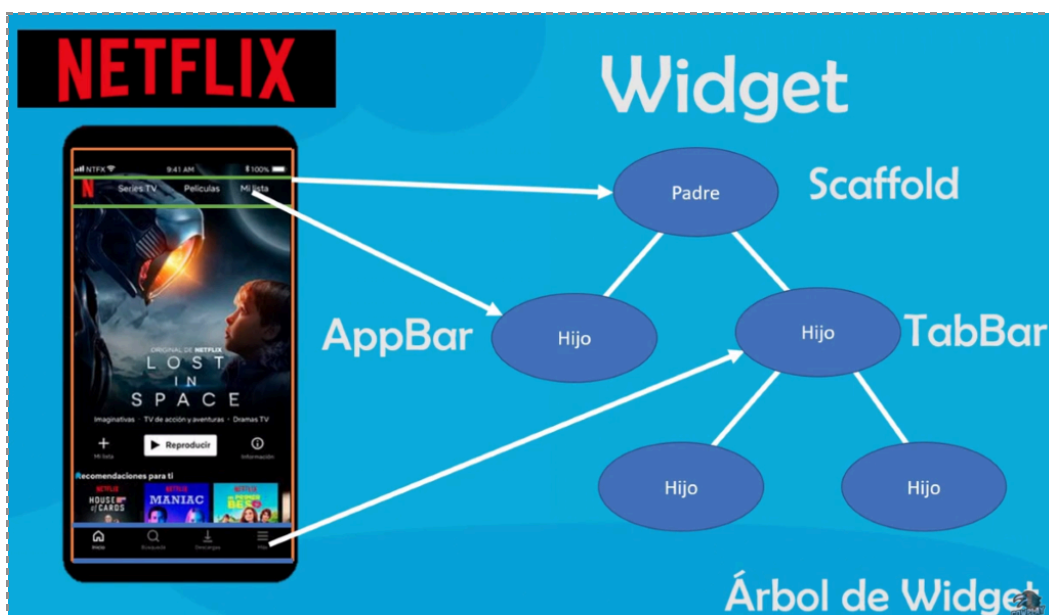
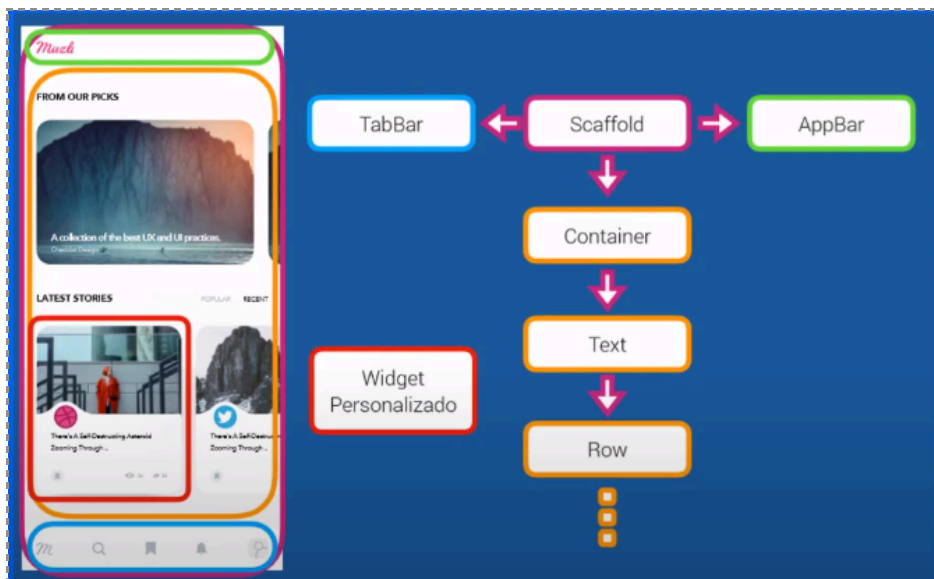
Examples

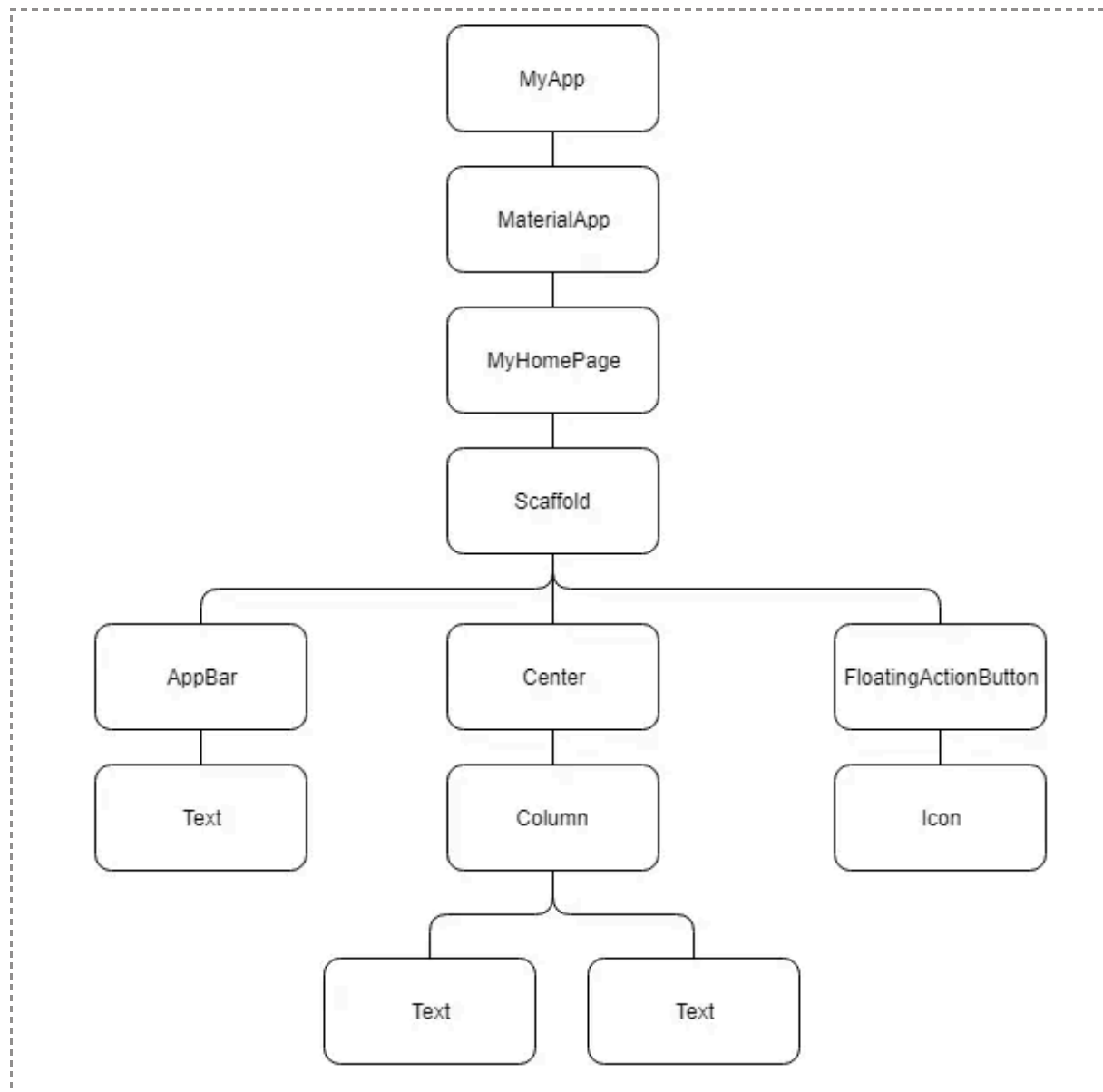
Here are some examples of Stateful Widgets.

- 1 CheckBox
- 2 RadioButton
- 3 TextField
- 4 Many More

Stateful Widgets are used when we need to keep track of the state. For example, if a CheckBox is checked or not.

Don't worry!





Cero hijos:

- Image
- Text
- RichText
- Icon

Un hijo:

- Container
- Padding
- RaisedButton
- Align
- Center
- Positioned

Varios hijos:

- Column
- Row
- Stack
- Wrap
- ListView
- GridView

