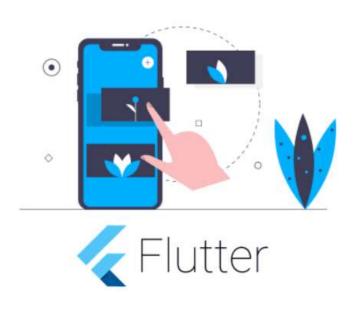
Stateful Widget





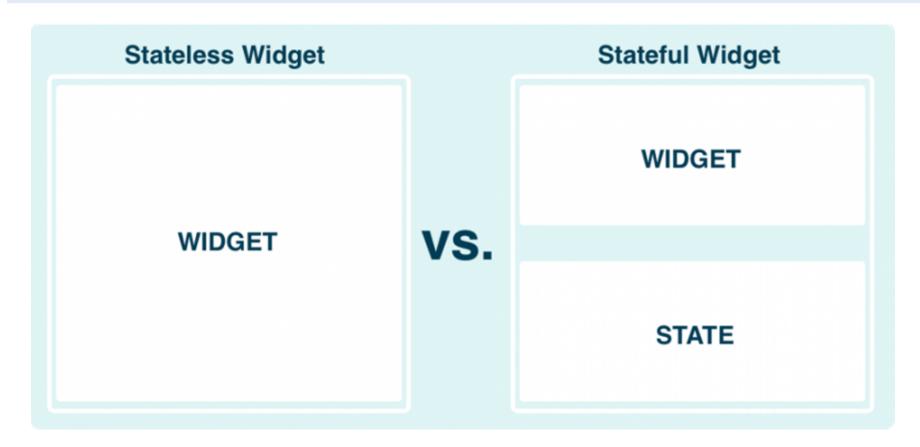


- First Gear
- Pickup Increase
- Second Gear
- Pickup Increase
- Third Gear
- Forth Gear
- Gear Shift Down
- Pickup Decrease



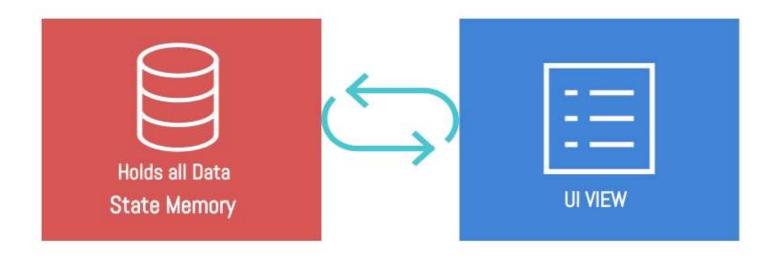
What is state:

- Anything that exists in the memory of the app while the app is running.
- When state values change, view update automatically



Stateless	Statefull
Not update at runtime	Update at runtime
Update when initiate	Update when initiate
Can't Change UI Dynamically	Can change UI dynamically
No information caching	Can cache information
Not suitable for API calling	Suitable for API call
Not suitable for complex UI	Suitable for complex UI

How Stateful Widget Works



How Stateful Widget Works

```
class MyHomePage extends StatefulWidget {
    @override
    State<StatefulWidget> createState() {
        return MyHomePageUI();
    }
}
```



Lets Create Our First Stateful Widget

```
class MyHomePage extends StatefulWidget {
   @override
   State<StatefulWidget> createState() {
     return MyHomePageUI();
   }
}
```



- The Stateful widget is mutable
- It can be change multiple times within its lifetime.
- So we need to understand it's lifecycle

createState()

- This method creates a State object. This object is where all the mutable state for that widget is held.
- This step is not marked as a real step in the lifecycle, but it is important to know what is going on in the background.

initState()

- Automatically called only once, when the state object is created for the first time.
- Use this method to manage HTTP requests and subscribe to streams or any other object that could change the data on this widget.

didChangeDependencies()

- Framework will call this method immediately after the initState().
- The build method is always called after this method, so this method is rarely needed

build()

- it will be called many times during the lifecycle, but the first time is after the didChangeDependencies() method.
- Whenever the widget that belongs to the state is updated, the framework will always execute this method

setState()

 The setState() method notifies the framework that the internal state of the current object is changed, now it's time to update the view



