Cheatography

Mobile Application 2 Cheat Sheet by [deleted] via cheatography.com/96251/cs/22163/

Basics

Flutter has Stateful and Stateless Widgets. Stateful widgets (Checkbox, Slider) can display a state, Stateless widgets (Text, IconButton) can't.

Override build method in state

```
//override build method to
return an IconButton which
displays different icons based
on _isFavorited, and a Text
which displays _favoriteCount
@override
 Widget build (BuildContext
context) {
    return Row(
     mainAxisSize: MainAxisS-
ize.min,
     children: [
       Container (
          padding: EdgeInsets.a-
11(0),
         child: IconButton(
            icon: (_isFavorited
? Icon(Icons.star) : Icon(Icon-
s.star_border)),
           color: Colors.re-
d[500],
           onPressed: _toggl-
eFavorite,
         ),
        ) ,
        SizedBox(
         width: 18,
          child: Container(
            child: Text('$_favo-
riteCount'),
        ) ,
        ),
    );
```

Creating a stateful widget

```
When createState() is called
(which is overridden from
StatefulWidget, a new
_FavoriteWidgetState is created.
class FavoriteWidget extends
StatefulWidget {
  @override
  _FavoriteWidgetState create-
State() => _FavoriteWidgetSta-
te();
```

Add toggle method

```
//sets the state when
_toggleFavorite is invoked so
the widget refreshes; Increase
favorite count
void _toggleFavorite() {
  setState(() {
    if (_isFavorited) {
      _favoriteCount -= 1;
      _isFavorited = false;
    } else {
      _favoriteCount += 1;
      _isFavorited = true;
  });
```

Create state

```
Create _FavoriteWidgetState
which holds properties like
isFavorited and favoriteCount
class _FavoriteWidgetState
extends State<FavoriteWidget> {
  bool _isFavorited = true;
  int _favoriteCount = 41;
```

Types of state managment

```
Widget
            Sometimes it makes sense to
manages
            manage state internally.
its own
            ListView scrolls automatically if
            content exceeds render box,
state
            this is managed internally so
            the developer doesnt have to
            handle it
```

Parent Parent manages state of children and tells child widget widget manages when to update.

widget's state

the

Mix-and-Some of the state is managed match by the widget, some of it is approach managed by the parent widget.



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