

State management also outside flutter

To the moment

- InheritedWidget
 - ValueNotifier
 - ChangeNotifier
 - Provider
-
- Any issues?

To the moment

- InheritedWidget
- ValueNotifier
- ChangeNotifier
- Provider

- Any issues?
 - SOME DEPEND ON FLUTTER
 - **HOW ABOUT DART?**

state_notifier 0.7.2+1

Published 2 months ago • [dash-overflow.net](#) Null safety

SDK | DART | FLUTTER

PLATFORM | ANDROID | IOS | LINUX | MACOS | WEB | WINDOWS

197

[Readme](#) | [Changelog](#) | [Example](#) | [Installing](#) | [Versions](#) | [Scores](#)

pub v0.7.2+1 Welcome to **state_notifier**~

This package is a recommended solution for managing state when using [Provider](#) or [Riverpod](#).

Long story short, instead of extending [ChangeNotifier](#), extend [StateNotifier](#):

```
class City {  
  City({required this.name, required this.population});  
  final String name;  
  final int population;  
}
```

```
class CityNotifier extends StateNotifier<List<City>> {  
  CityNotifier() : super(const <City>[]);  
}
```

https://pub.dev/packages/state_notifier

197

LIKES

130

PUB POINTS

96%

POPULARITY

Publisher

[dash-overflow.net](#)

Metadata

ValueNotifier, but outside Flutter and with some extra perks

[Repository \(GitHub\)](#)

[View/report issues](#)

Documentation

[API reference](#)

License

StateNotifier has 2 main widgets:

StateNotifierProvider: StateNotifierProvider is the equivalent of `ChangeNotifierProvider` but for StateNotifier. Its main task is to create StateNotifier and it will automatically dispose it when the widget is removed from the tree!

StateNotifierBuilder: StateNotifierBuilder is equivalent to `ValueListenableBuilder` from Flutter. You can rebuild the widget based on the value changed in the StateNotifier!

However, there are other widgets too available with StateNotifier. Now, let's see the code implementation of the same. We will implement the Counter Application using StateNotifier!

<https://medium.com/google-developer-experts/manage-the-state-of-your-app-using-statenotifier-flutter-cf0ed89984b2>

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VALUE NOTIFIER OUTSIDE FLUTTER

State Notifier

StateNotifier, ValueNotifier outside Flutter

Another way to manage state



Marcos Sevilla · Jan 25, 2021 · 7 min read

<https://marcossevilla.dev/state-notifier>

VALUE NOTIFIER OUTSIDE FLUTTER

State Notifier

Hello StateNotifier

`StateNotifier` is another type of class that serves as a logic component and is a "reimplementation" of `ValueNotifier`, with the difference that it doesn't depend on Flutter.

Flutter

Another way to manage state



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Flutter

Another way to manage state



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```
abstract class UserState {}

class UserNotLogged extends UserState {}

class UserLogged extends UserState {
    UserLogged({required this.user});
    final User user;
}
```

```
class UserStateNotifier extends StateNotifier<UserState> {
    // we create our initial state by passing it to super, just li
    UserStateNotifier() : super(UserNotLogged());

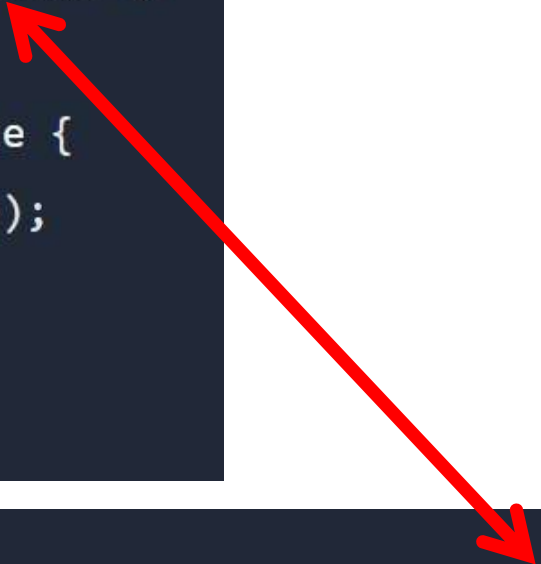
    // we change state assigning a new one to the state property.
    void logIn(User user) => state = UserLogged(user: user);
}
```



```
abstract class UserState {}

class UserNotLogged extends UserState {}

class UserLogged extends UserState {
    UserLogged({required this.user});
    final User user;
}
```



```
class UserStateNotifier extends StateNotifier<UserState> {
    // we create our initial state by passing it to super, just li
    UserStateNotifier() : super(UserNotLogged());

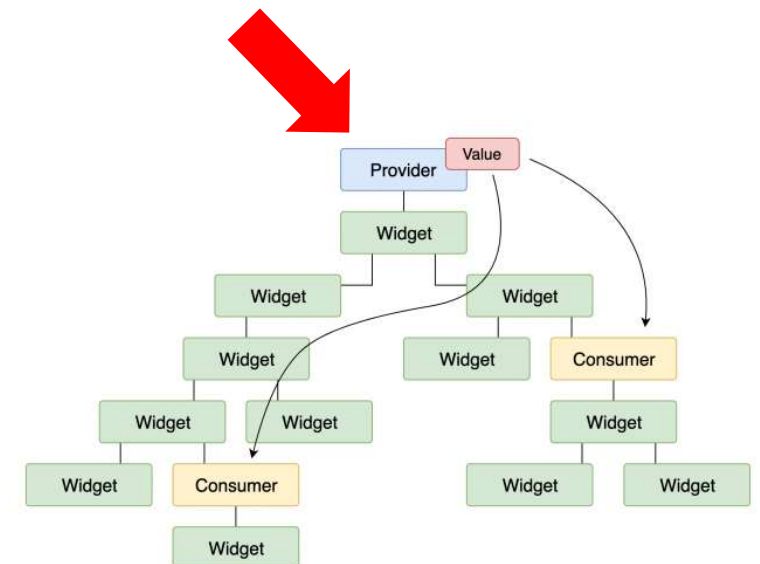
    // we change state assigning a new one to the state property.
    void logIn(User user) => state = UserLogged(user: user);
}
```



```

void main() {
  runApp(
    StateNotifierProvider<UserStateNotifier, UserState>(
      create: (_) => UserStateNotifier(),
      child: MyApp(),
    ),
  );
}

```




```

void main() {
  runApp(
    StateNotifierProvider<UserStateNotifier, UserState>(
      create: (_) => UserStateNotifier(),
      child: MyApp(),
    ),
  );
}

```

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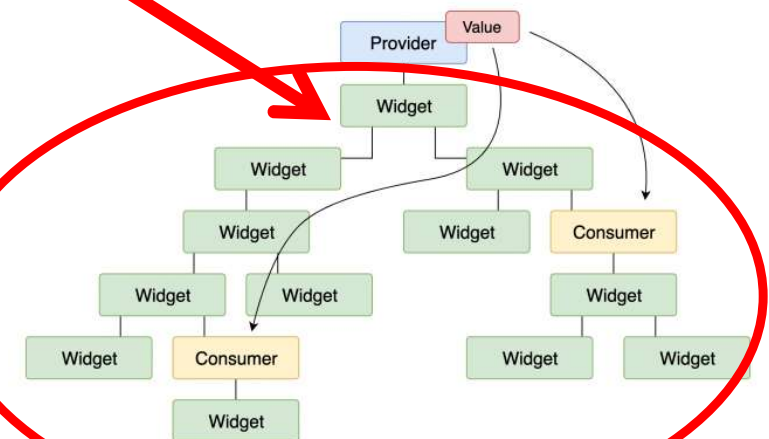
  // we change state assigning a new one
  void login(User user) => state = User
}

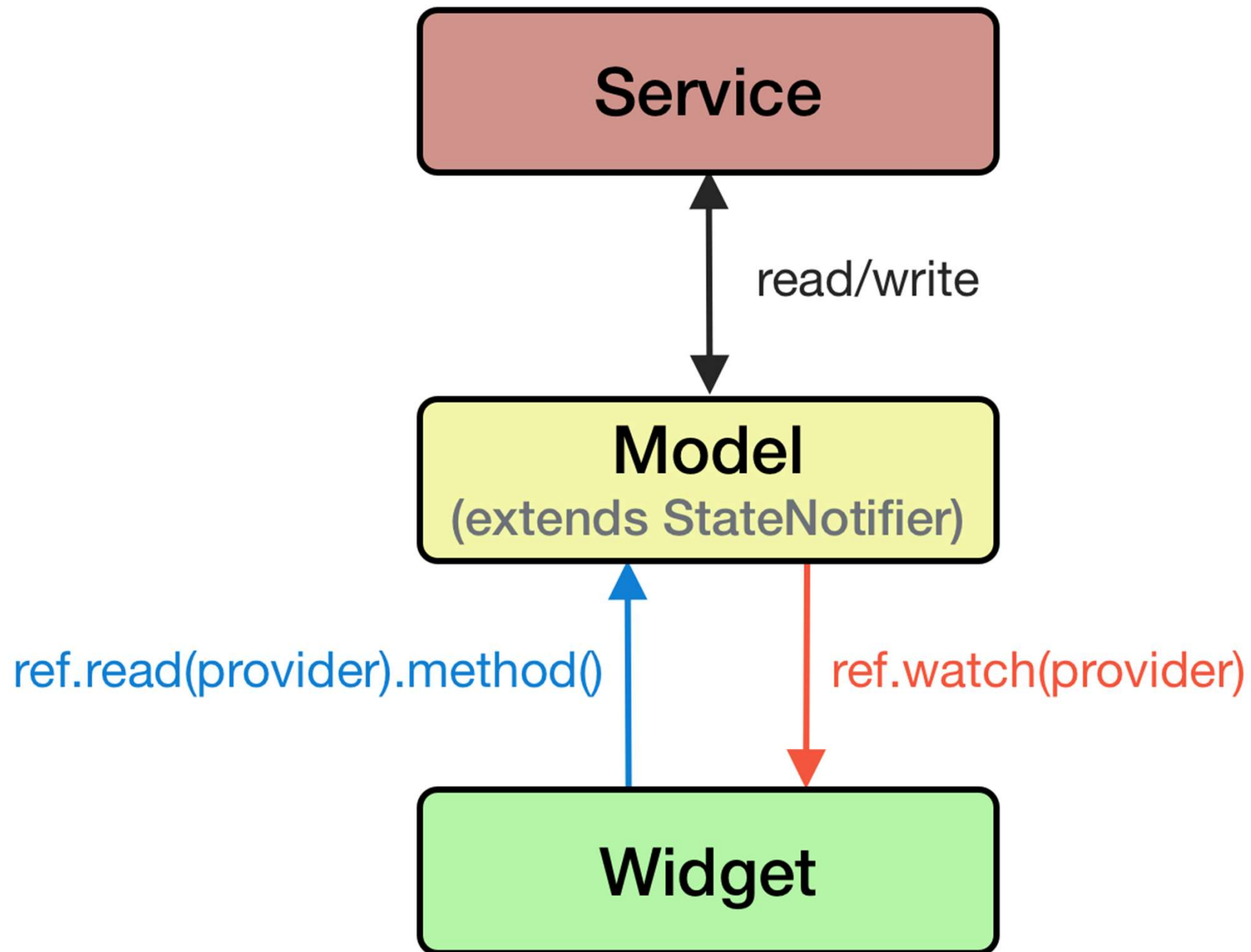
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class UserNotLogged extends UserState {}

class UserLogged extends UserState {
  UserLogged({required this.user});
  final User user;
}

```

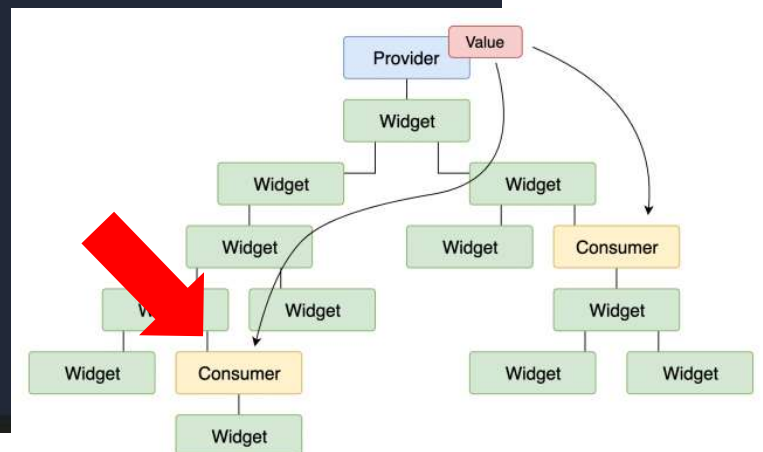




```

class MyWidget extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    final userState = context.watch<UserStateNotifier>();
    return Scaffold(
      body: Center(
        child: Text('${userState.runtimeType}'),
      ),
      floatingActionButton: FloatingActionButton(
        onPressed: () {
          context.read<UserStateNotifier>().login(User());
        },
      ),
    );
  }
}

```

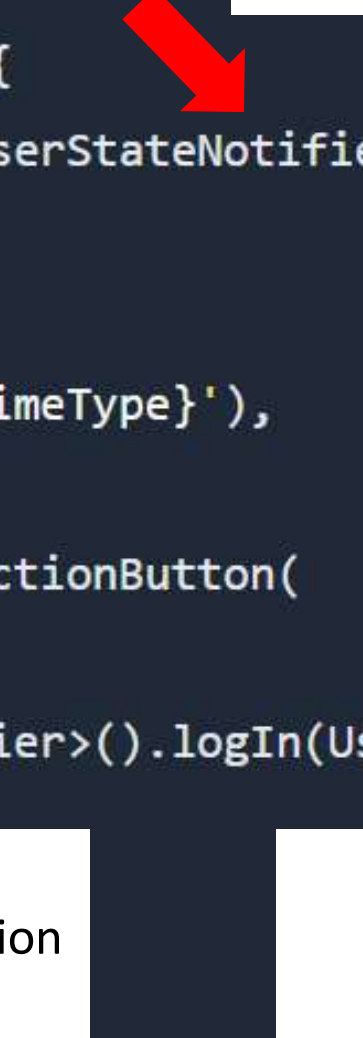


- Look for notifier
- ~dependency injection
- Get reference

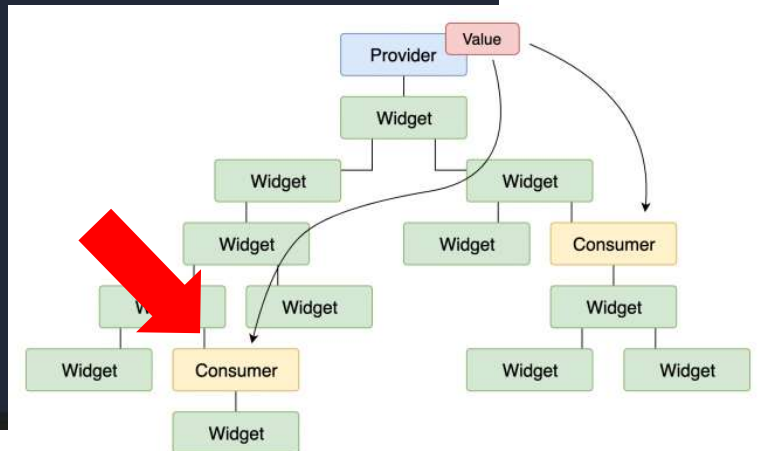
```
class MyWidget extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    final userState = context.watch<UserStateNotifier>();  
    return Scaffold(  
      body: Center(  
        child: Text('${userState.runtimeType}'),  
      ),  
      floatingActionButton: FloatingActionButton(  
        onPressed: () {  
          context.read<UserStateNotifier>().login(User());  
        },  
      ),  
    );  
  }  
}
```

~dependency
Get reference

Look for notifier
~dependency injection
READ



Look for notifier
~dependency injection
READ







A Reactive Caching and Data-binding Framework

[Get Started](#)

Create a Provider

```
1 final counterProvider = StateNotifierProvider<Counter, int>((ref) {  
2   return Counter();  
3 });  
4  
5 class Counter extends StateNotifier<int> {  
6   Counter() : super(0);  
7   void increment() => state++;  
8 }
```

Consume the Provider

```
1 class Home extends ConsumerWidget {  
2   @override  
3   Widget build(BuildContext context, WidgetRef ref) {  
4     final count = ref.watch(counterProvider);  
5     return Text('$count');  
6   }  
7 }
```

<https://riverpod.dev/>

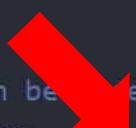
A Reactive Caching and Data-binding Framework

Define the “provider”
~ Singleton

Declare shared state from anywhere

No need to jump between your `main.dart` and your UI files anymore.

Place the code of your shared state where it belongs, be it in a separate package or right next to the Widget that needs it, without losing testability.



```
1 // A shared state that can be accessed by multiple
2 // objects at the same time
3 final countProvider = StateProvider((ref) => 0);
4
5 // Consumes the shared state and rebuild when it changes
6 class Title extends ConsumerWidget {
7   @override
8   Widget build(BuildContext context, WidgetRef ref) {
9     final count = ref.watch(countProvider);
10    return Text('$count');
11  }
12 }
```

Riverpod provides a StateNotifier implementation among other...

Safely read providers

Reading a provider will never result in a bad state. If you can write the code needed to read a provider, you will obtain a valid value.

This even applies to asynchronously loaded values. As opposed to with provider, Riverpod allows cleanly handling loading/error cases.

```
1  final configurationsProvider = FutureProvider<Configuration>((ref) async {
2    final uri = Uri.parse('configs.json');
3    final rawJson = await File.fromUri(uri).readAsString();
4
5    return Configuration.fromJson(json.decode(rawJson));
6  });
7
8  class Example extends ConsumerWidget {
9    @override
10   Widget build(BuildContext context, WidgetRef ref) {
11     final configs = ref.watch(configurationsProvider);
12
13     // Use Riverpod's built-in support
14     // for error/loading states using "when":
15     return configs.when(
16       loading: () => const CircularProgressIndicator(),
17       error: (err, stack) => Text('Error $err'),
18       data: (configs) => Text('data: ${configs.host}'),
19     );
20   }
21 }
```

Get reference to provider

Riverpod provides a StateNotifier implementation among other...

Getting started

Concepts

Guides

Testing

Migration

^0.13.0 to ^0.14.0

^0.14.0 to ^1.0.0

Official examples

Third party examples

Api references

All Providers

riverpod

flutter_riverpod

hooks_riverpod

Getting started

Before diving into the inner mechanisms of [Riverpod](#), let's start with the basics: Installing [Riverpod](#), then writing a "Hello world".

What package to install

Before anything, you need to be aware that [Riverpod](#) is spread across multiple packages, with slightly different variants. The variant of [Riverpod](#) that you will want to install depends on the app you are making.

You can refer to the following table to help you decide which package to use:

app type	package name	description
Flutter only	flutter_riverpod	A basic way of using Riverpod with flutter.
Flutter + flutter_hooks	hooks_riverpod	A way to use both flutter_hooks and Riverpod together.
Dart only (No Flutter)	riverpod	A version of Riverpod with all the classes related to Flutter stripped out.

Installing the package

Once you know what package you want to install, proceed to add the following to your `pubspec.yaml`:

Flutter + [flutter_hooks](#)

Flutter

Dart only

pubspec.yaml

```
environment:
  sdk: ">=2.12.0 <3.0.0"
  flutter: ">=2.0.0"
```

dependencies:

```
flutter_hooks: ^0.15.0
hooks_riverpod: ^2.0.0-dev.4
```

What package to install

Installing the package

Usage example: Hello world

Going further: Installing code snippets

Choose your next step

Riverpod provides
several implementations

https://riverpod.dev/docs/getting_started

Getting started

Concepts

Guides

Testing

Migration

^0.13.0 to ^0.14.0

^0.14.0 to ^1.0.0

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Riverpod provides several implementations

```
sdk: ">=2.12.0 <3.0.0"
flutter: ">=2.0.0"
```

```
dependencies:
```

```
flutter_hooks: ^0.18.0
hooks_riverpod: ^2.0.0-dev.4
```

https://riverpod.dev/docs/getting_started

lib/main.dart

```
import 'package:riverpod/riverpod.dart';

// We create a "provider", which will store a value (here "Hello world")
// By using a provider, this allows us to mock/override the value
final helloWorldProvider = Provider((_) => 'Hello world');

void main() {
  // This object is where the state of our providers will be stored
  final container = ProviderContainer();

  // Thanks to "container", we can read our provider.
  final value = container.read(helloWorldProvider);

  print(value); // Hello world
}
```

Which you can then execute with `dart lib/main.dart`.
This will print "Hello world" in the console.

Riverpod provides
Dart implementation

lib/main.dart

```
import 'package:riverpod/riverpod.dart';

// We create a "provider", which will store a value (here "Hello world")
// By using a provider, this allows us to mock/override the value
final helloWorldProvider = Provider((_) => 'Hello world');

void main() {
  // This object is where the state of our providers will be stored
  final container = ProviderContainer();

  // Thanks to "container", we can read our provider.
  final value = container.read(helloWorldProvider);

  print(value); // Hello world
}
```

Declare provider

Manager all notifiers
~riverpod singletonContainer manages
the notifiers

Which you can then execute with `dart lib/main.dart`.
This will print "Hello world" in the console.

Riverpod provides
Dart implementation

lib/main.dart

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

// We create a "provider", which will store a value (here "Hello world")
// By using a provider, this allows us to mock/override the value
final helloWorldProvider = Provider((_) => 'Hello world');

void main() {
  runApp(
    // For widgets to be able to read providers, we need to wrap
    // application in a "ProviderScope" widget.
    // This is where the state of our providers will be stored.
    ProviderScope(
      child: MyApp(),
    ),
  );
}
```

Declare provider

Top of the tree

Riverpod provides
Flutter implementation

lib/main.dart

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

```
// We create a "provider", which will store a value (here "Hello")
```

```
// By using a provider, this allows
final helloWorldProvider = Provider
```

```
void main() {
```

```
  runApp(
```

```
    // For widgets to be able to re
```

```
    // application in a "ProviderSc
```

```
    // This is where the state of o
```

```
    ProviderScope(
```

```
      child: MyApp(),
```

```
    ),
```

```
  );
```

```
}
```

```
// Extend ConsumerWidget instead of StatelessWidget, which
```

```
class MyApp extends ConsumerWidget {
```

```
  @override
```

```
  Widget build(BuildContext context, WidgetRef ref) {
```

```
    final String value = ref.watch(helloWorldProvider);
```

```
    return MaterialApp(
```

```
      home: Scaffold(
```

```
        appBar: AppBar(title: const Text('Example')),
```

```
        body: Center(
```

```
          child: Text(value),
```

```
        ),
```

```
      ),
```

```
    );
```

```
  }
```

```
}
```

Watch the pr

- Note not the
Provider refe

Riverpod provides
Flutter implementation

Which you can then execute with `flutter run`.

This will render "Hello world" on your device.

lib/main.dart

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

// We create a "provider", which will store a value (here "Hello world")
// By using a provider, this allows us to mock/override the value
final helloWorldProvider = Provider((_) => 'Hello world');

void main() {
  runApp(
    // For widgets to be able to read providers, we need to wrap
    // application in a "ProviderScope" widget.
    // This is where the state of our providers will be stored.
    ProviderScope(
      child: MyApp(),
    ),
  );
}
```

Copy

Declare provider

Top of the tree

Riverpod provides
Flutter+hooks implementation

lib/main.dart

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

Copy

```
// We create a "provider", which will store a value (here "Hello")
// By using a provider, the value will be accessible from anywhere in the app.
final helloWorldProvider = Provider<String>(() => 'Hello, World!');

void main() {
  runApp(
    // For widgets to be able to use providers, they need to be wrapped in a "ProviderScope".
    // This is where the providers are registered.
    ProviderScope(
      child: MyApp(),
    ),
  );
}

// Note: MyApp is a HookConsumerWidget, from hooks_riverpod.
class MyApp extends HookConsumerWidget {
  @override
  Widget build(BuildContext context, WidgetRef ref) {
    final String value = ref.watch(helloWorldProvider);

    return MaterialApp(
      home: Scaffold(
        appBar: AppBar(title: const Text('Example')),
        body: Center(
          child: Text(value),
        ),
      ),
    );
  }
}
```

Riverpod provides
Flutter+hooks implementation

Flutter State Management with Riverpod: The Essential Guide

#dart

#flutter

#state-management

#app-architecture

#riverpod



UPDATED NOV 18, 2021



28 MIN READ

Riverpod is a popular Flutter state management library that shares many of the advantages of Provider and brings many additional benefits.

According to the official documentation:

<https://codewithandrea.com/articles/flutter-state-management-riverpod/>


```
final valueProvider = Provider<int>((ref) {  
    return 36;  
});
```

Define provider




```
void main() {  
    runApp(ProviderScope(  
        child: MyApp(),  
    ));  
}
```

Provider scope on
top of the tree

```
class MyHomePage extends StatelessWidget {  
  @override  
  Widget build(BuildContext context) {  
    return Scaffold(  
      body: Center(  
        child: Text(  
          'Some text here 👍',  
          style: Theme.of(context).textTheme.headline4,  
        ),  
      ),  
    );  
  }  
}
```

```
class MyHomePage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
```


```
      body: Center(
        child: Text(
          'Some text',
          style: TextStyle(
            color: Colors.blue,
            fontSize: 24,
          ),
        ),
      ),
    );
  }
}
```

```
class MyHomePage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Center(
        // 1. Add a Consumer widget
        child: Consumer(
          // 2. specify the builder and obtain a WidgetRef
          builder: (_, WidgetRef ref, __) {
            // 3. use ref.watch() to get the value of the provider
            final value = ref.watch(valueProvider);
            return Text(
              'Value: $value',
              style: Theme.of(context).textTheme.headline4,
            );
          },
        ),
      ),
    );
  }
}
```


The consumer



Watch provider





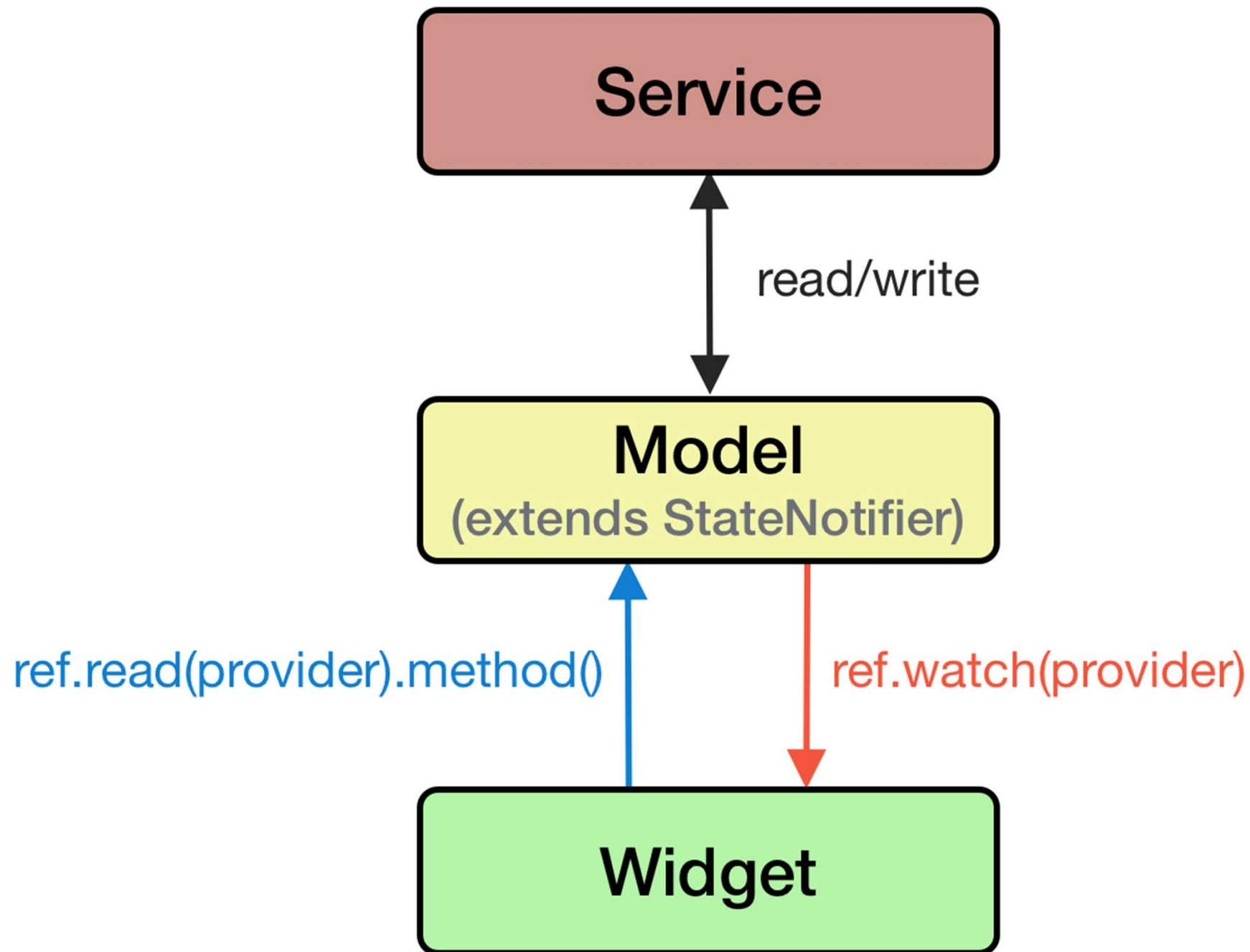
```
final valueProvider = Provider<int>((ref) {  
    return 36;  
});
```




Define provider

```
// 1. Widget class now extends [ConsumerWidget]  
class MyHomePage extends ConsumerWidget {  
    @override  
    // 2. build() method has an extra [WidgetRef] argument  
    Widget build(BuildContext context, WidgetRef ref) {  
        // 3. use ref.watch() to get the value of the provider  
        final value = ref.watch(valueProvider);  
        return Scaffold(  
            body: Center(  
                child: Text(  
                    'Value: $value',  
                    style: Theme.of(context).textTheme.headline4,  
                ),  
            ),  
        );  
    }  
}
```








```
final counterstateProvider = StateProvider<int>((ref) {  
    return 0;  
});
```



```
class MyHomePage extends ConsumerWidget {  
    @override  
    Widget build(BuildContext context, WidgetRef ref) {  
        // 1. watch the counterstateProvider  
        final counter = ref.watch(counterstateProvider);  
        return Scaffold(  
            body: Center(  
                child: Text(  
                    // 2. use the counter value  
                    'Value: $counter',  
                    style: Theme.of(context).textTheme.headline4,  
                ),  
            ),  
        );  
    }  
}
```



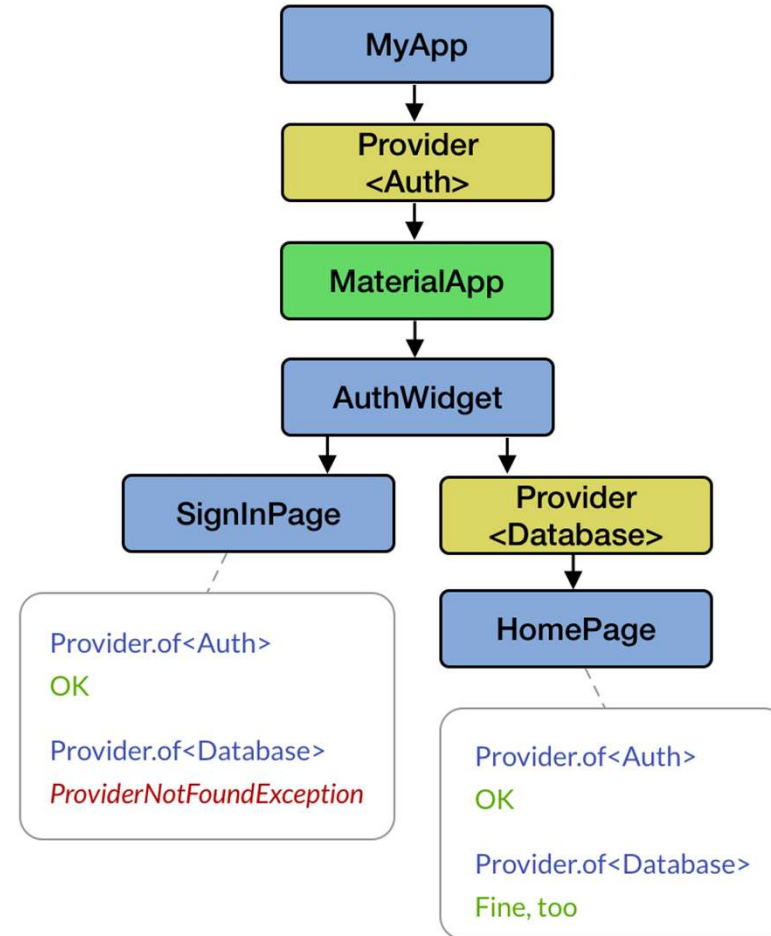
```
final futureProvider = FutureProvider<int>((ref) {  
    return Future.value(36);  
});  
  
final streamProvider = StreamProvider<int>((ref) {  
    return Stream.fromIterable([36, 72]);  
});
```

And more...

```
final clockProvider = StateNotifierProvider<Clock, DateTime>((ref) {  
    return Clock();  
});
```

Why use Riverpod for Flutter state management?

- Provider Drawback #1: Combining Providers is very verbose
- Provider Drawback #2: Getting Providers by type and runtime exceptions



RIVERPOD

A NEW PROVIDER

Riverpod: Rewriting Provider

Understanding Riverpod and not die trying



Marcos Sevilla · Feb 6, 2022 · 11 min read

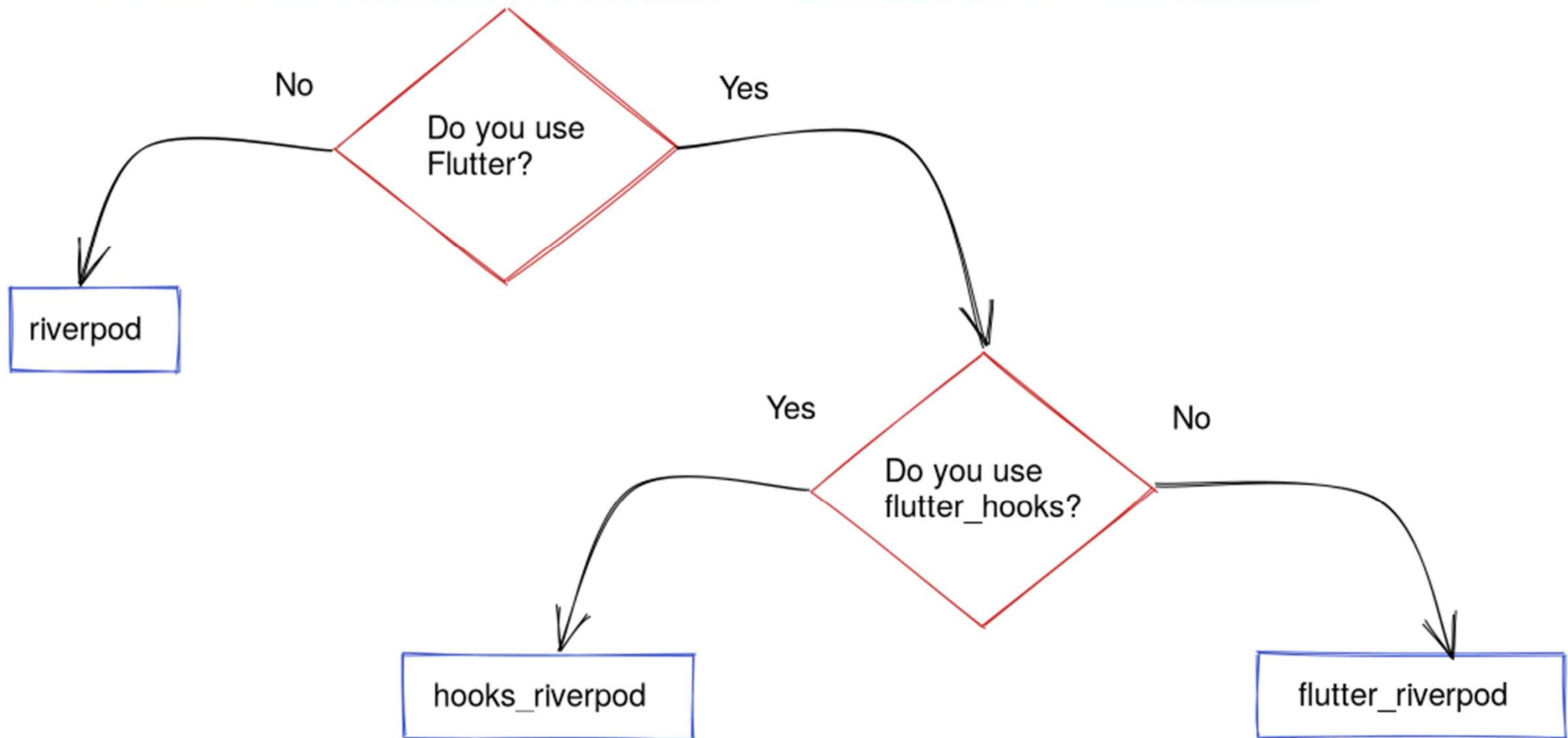
☰ TABLE OF CONTENTS

Cause

<https://marcossevilla.dev/riverpod>



RIVERPOD



☰ **TABLE OF CONTENTS**

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Flutter_hooks

Not focus



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 [rrousselGit](#) / [flutter_hooks](#) Public

React hooks for Flutter. Hooks are a new kind of object that manages a Widget life-cycles. They are used to increase code sharing between widgets and as a complete replacement for StatefulWidget.

 MIT License

 2.2k stars  124 forks

 Star

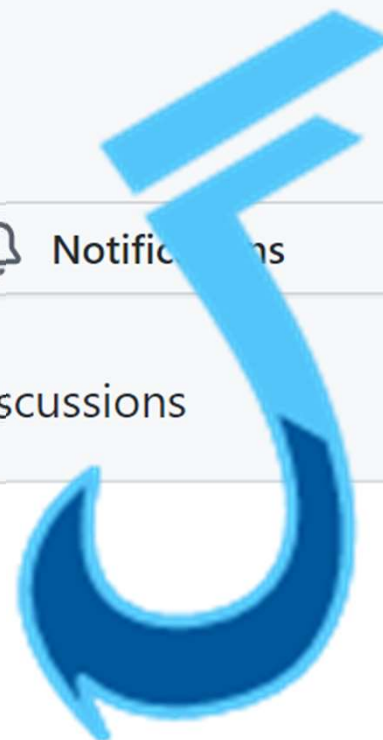
 Notifications

 Code

 Issues 19

 Pull requests 1

 Discussions



https://github.com/rrousselGit/flutter_hooks

https://pub.dev/packages/flutter_hooks

Hooks and HookWidget

- Hook
 - **Delegate state / function**
 - code-sharing between widgets by removing duplicates.
- HookWidget
 - Hooks still works with widget
- Predefined & custom

```
class Example extends HookWidget {  
  const Example({Key key, required this.duration})  
    : super(key: key);  
  
  final Duration duration;  
  
  @override  
  Widget build(BuildContext context) {  
    final controller = useAnimationController(dura  
    return Container();  
  }  
}
```



Rationale: needs a common “resource”

If this idea is still unclear, a naive implementation of hooks could look as follows:

```
class HookElement extends Element {  
    List<HookState> _hooks;  
    int _hookIndex;  
  
    T use<T>(Hook<T> hook) => _hooks[_hookIndex++].build(this);  
  
    @override  
    performRebuild() {  
        _hookIndex = 0;  
        super.performRebuild();  
    }  
}
```

StatefulWidget

```
class _ExampleState extends State<Example> with SingleTickerProviderStateMixin {
  AnimationController? _controller;

  @override
  void initState() {
    super.initState();
    _controller = AnimationController(vsync: this, duration: widget.duration);
  }

  @override
  void didUpdateWidget(Example oldWidget) {
    super.didUpdateWidget(oldWidget);
    if (widget.duration != oldWidget.duration) {
      _controller!.duration = widget.duration;
    }
  }

  @override
  void dispose() {
    _controller!.dispose();
    super.dispose();
  }

  @override
  void build(BuildContext context) {
```



StatefulWidget vs Hook

```
class _ExampleState extends State<Example> with SingleTickerProviderStateMixin {
  AnimationController? _controller;

  @override
  void initState() {
    super.initState();
    _controller = AnimationController(
      vsync: this,
      duration: Duration(seconds: 2),
    );
  }

  @override
  void didUpdateWidget(covariant Example oldWidget) {
    super.didUpdateWidget(oldWidget);
    if (oldWidget.duration != this.duration) {
      _controller?.duration = this.duration;
      _controller?.reset();
    }
  }

  @override
  void dispose() {
    _controller?.dispose();
    super.dispose();
  }
}

class Example extends HookWidget {
  const Example({Key key, required this.duration})
    : super(key: key);

  final Duration duration;

  @override
  Widget build(BuildContext context) {
    final controller = useAnimationController(duration: duration);
    return Container();
  }
}
```



Chidume Nnamdi

Follow

I'm a software engineer with over six years of experience. I've worked with different stacks, including WAMP, MERN, and MEAN. My language of choice is JavaScript; frameworks are Angular and Node.js.

How to use Flutter Hooks

August 23, 2021 · 6 min read




Hooks. meet Flutter. Inspired by React Hooks and Dan Abramov's piece. *Making*

<https://blog.logrocket.com/how-to-use-flutter-hooks/>

Flutter.

Counter example)

```
class _MyHomePageState extends State<MyHomePage> {  
  int _counter = 0;  
  
  void _incrementCounter() {  
    setState(() {  
      _counter++;  
    });  
  }  
}
```



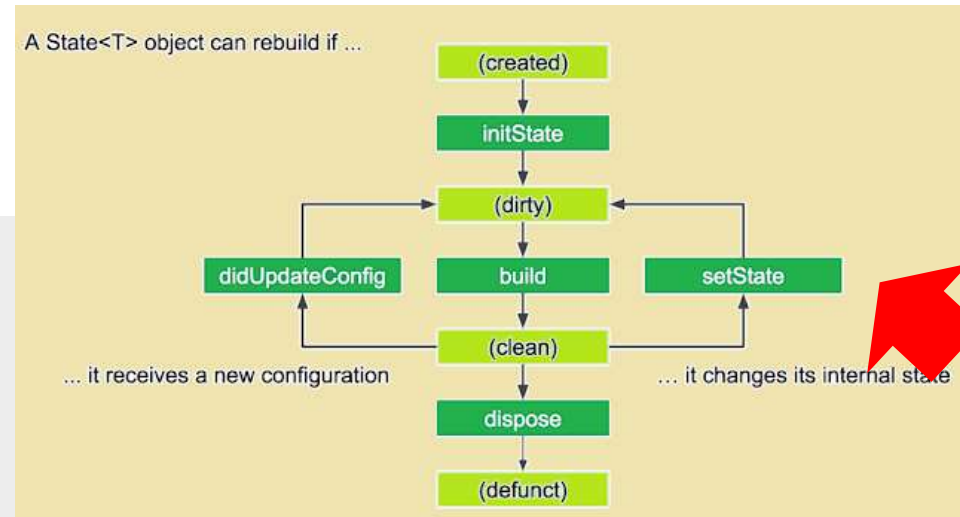
StatefulWidget

Hook

```
class MyHomePage extends HookWidget {  
  MyHomePage({Key key, this.title}) : super(key: key);  
  
  final String title;  
  
  @override  
  Widget build(BuildContext context) {  
    final _counter = useState(0);  
    return Scaffold(  
      appBar: AppBar(  
        title: Text(title),  
      ),  
    ),  
  }  
}
```

Counter example

```
@override
Widget build(BuildContext context) {
  final _counter = useState(0);
  return Scaffold(
    appBar: AppBar(
      title: Text(title),
    ),
    body: Center(
      child: Column(
        mainAxisAlignment: MainAxisAlignment.center,
        children: <Widget> [
          Text(
            'You have',
          ),
          Text(
            _counter.value,
          ),
        ],
      ),
    ),
  );
}
```



NO SET STATE...
Automatically triggers
refresh on change

```
floatingActionButton: FloatingActionButton(
  onPressed: () => _counter.value++,
  tooltip: 'Increment',
  child: Icon(Icons.add),
), // This trailing comma makes auto-formatting nicer for build
```


Predefined and unspecific hooks

Name
useEffect
useState
useMemoized
useRef
useCallback
useContext
useValueChang

🔗 dart:async related

Name
useStream
useStreamC
useFuture

Listenable related

Name
useListenable
useValueNotifier
useValueListenab

Animation related hooks

Name
useSingleTickerProvider
useAnimationController
useAnimation

Name
useReducer
usePrevious
useTextEditingController
useFocusNode
useTabController
useScrollController
usePageController
useAppLifecycleState
useOnAppLifecycleStateChange
useTransformationController
useIsMounted

The END

