

#### Cross-Platform Mobile Development with Flutter

A holistic and practical introduction

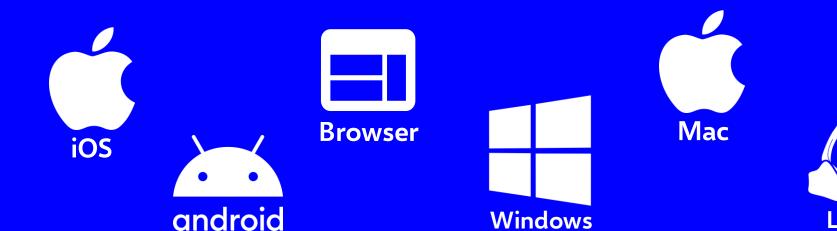
Master thesis (Nov. 2018-May 2019) topic:

### State-of-the-Art Cross-Platform Mobile Frameworks

## What is Flutter?

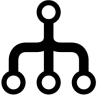
A cross platform frontend framework

- one code to rule them all!



#### Flutter's **Device Stores** app build workflow deploy **Native app** compiles code base (Using rendering **Code base** to native binaries engine to display elements without bridges, and language **Framework** boundaries) input

#### Flutter App



Widget composition

Transmit canvas

Transmit events



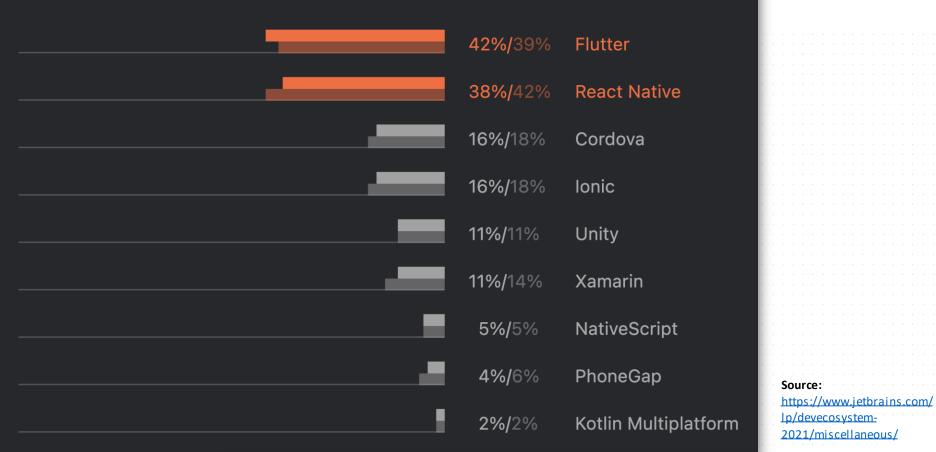


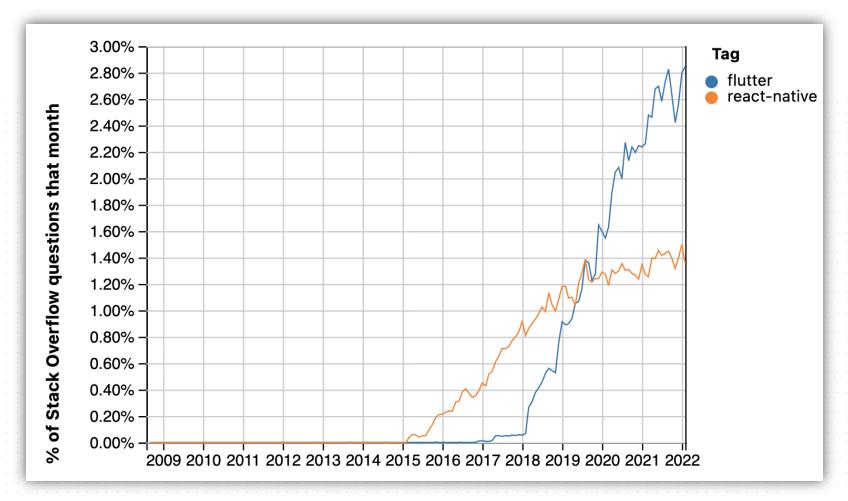
#### **Platform**

A text on a rectangle above the whole platform canvas resp. screen

**Event Listener Btn** 

- 2021
- 2020





#### Why no other cross-platform Framework?

- 1 Stable and efficient development experience
- Great tooling, linting and code completion
- 3 Best performance but weaker than native
- 4 Beautiful standard UI elements
- 5 High productivity and flexibility especially on UI development

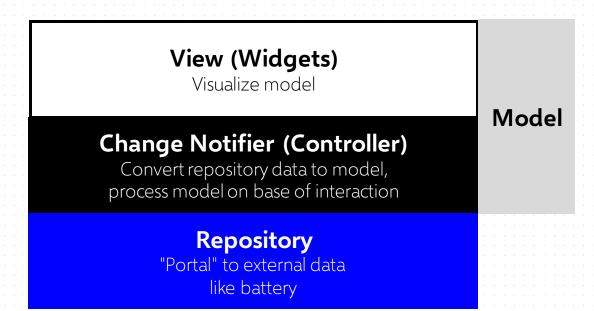
#### Let's do some...

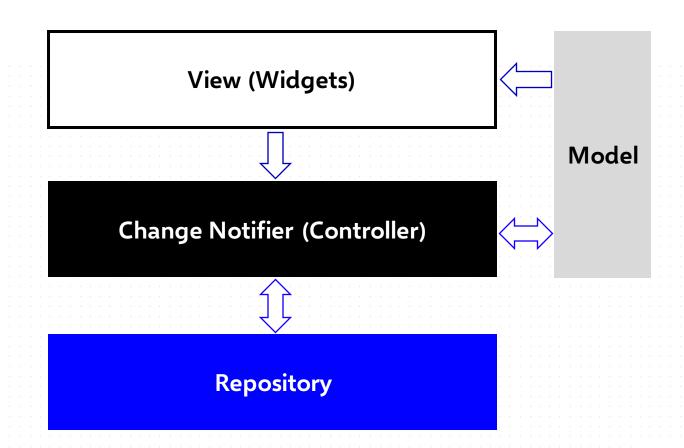
# LIVE COPYING!

https://github.com/christofkost/illusive battery controller



#### Our app architecture

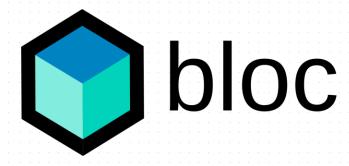




#### Flutter and state management



## provider



## MWAY