



Coding Zone
COMMUNITY

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MINICORSO RESPONSIVE DESIGN IN FLUTTER

Introduzione a Flutter

Speaker



FEDERICO PAREZZAN

Software Engineer

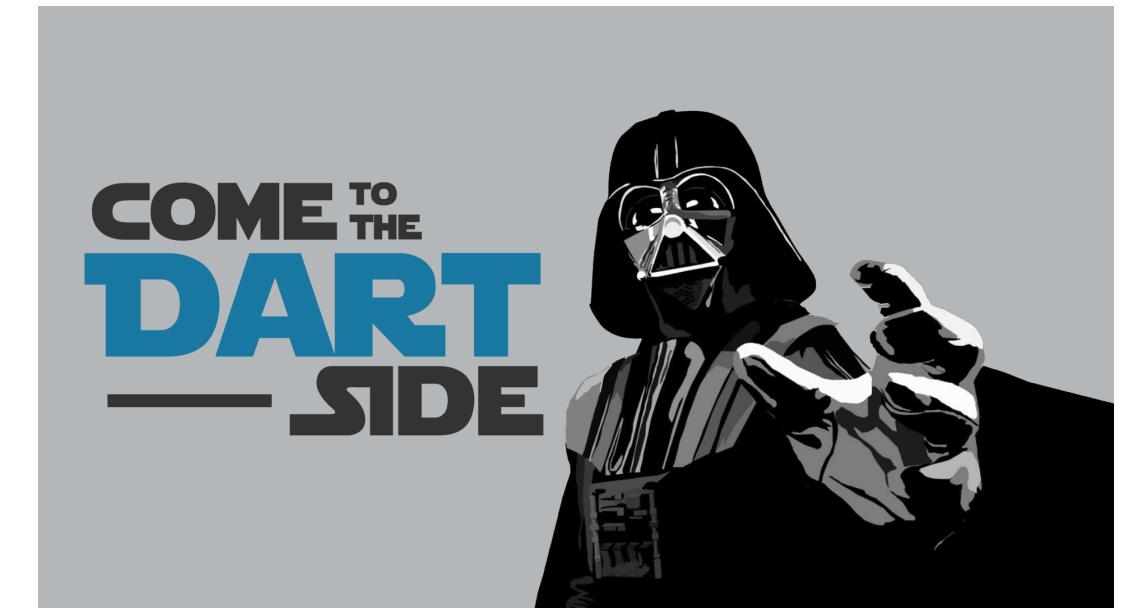
21 SETTEMBRE 2022

ore 18:45

Ospitato su
**the
Communities Bay**

Federico Parezzan

Java Developer



Sviluppatori Flutter



federico-parezzan



perez93



parezza.com

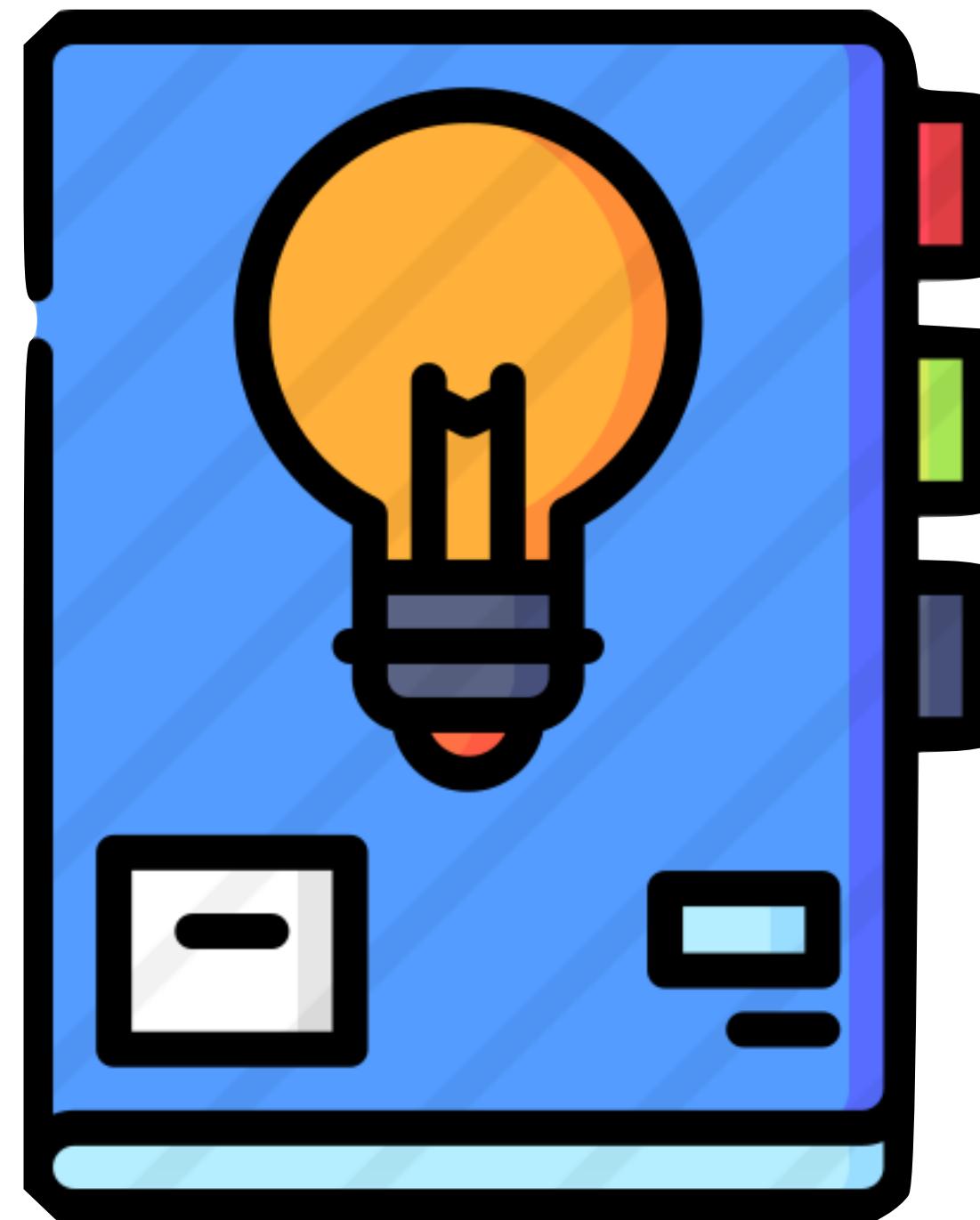


thecmmbay.com

Sono un essere umano, nulla che sia umano mi è estraneo ~ Terenzio

Agenda

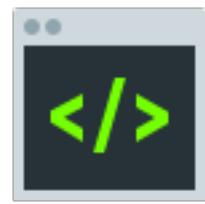
-  Dart introduction
-  Flutter introduction
-  Project structure
-  What's next?



What is Dart?



Object-oriented programming language



Compiled language



Inspired by modern features of other programming languages



Strongly typed



```
void main() {  
  for (int i = 0; i < 5; i++) {  
    print('hello ${i + 1}');  
  }  
}
```

▶ RUN

Console

DartPad

Documentation

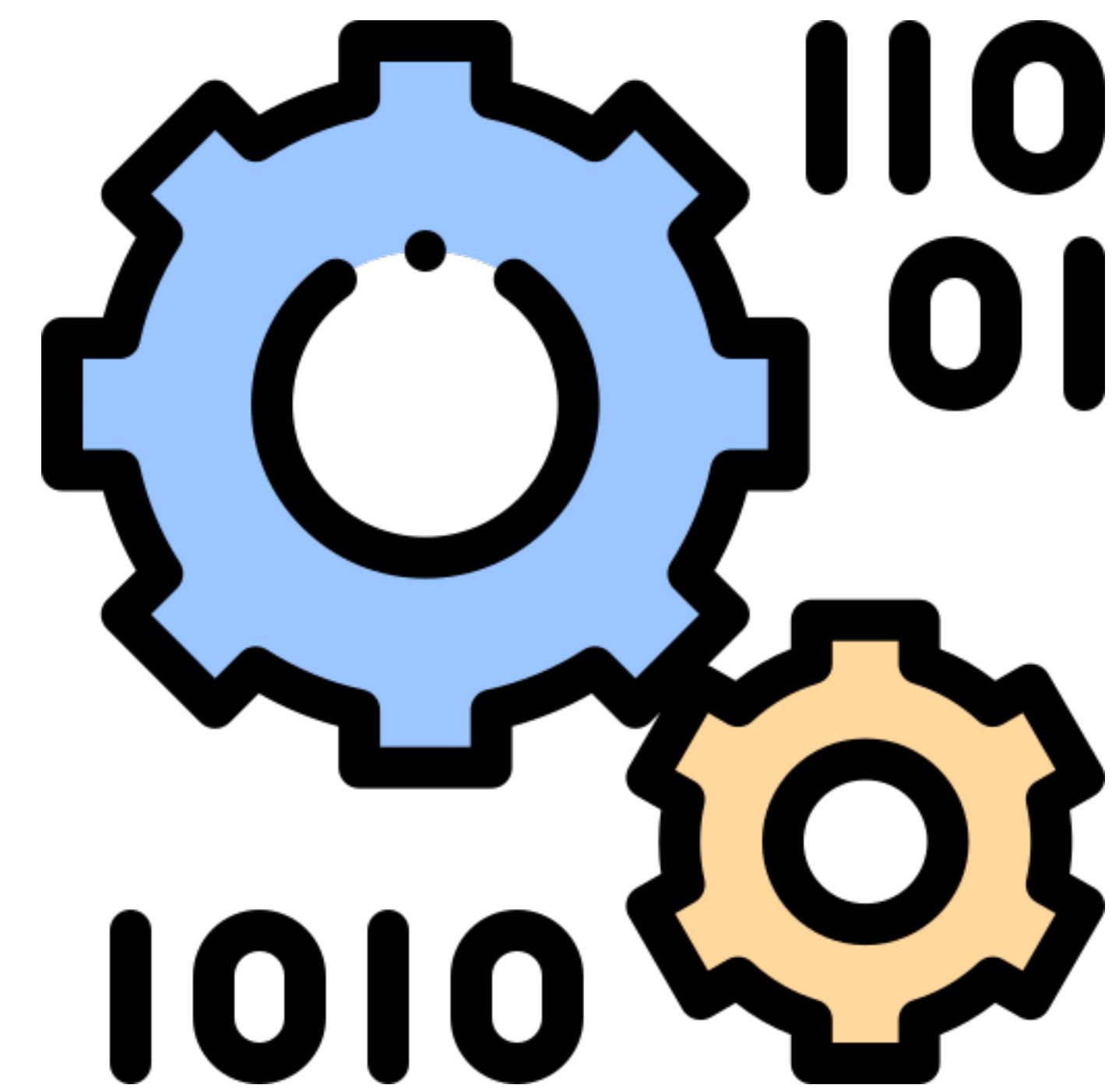
<https://dartpad.dartlang.org/>



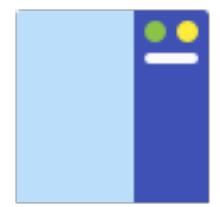
Execution of Dart code

 JIT

 AOT

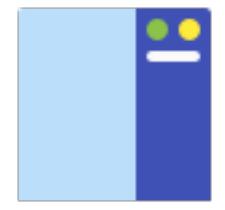


Why Flutter uses Dart?



Optimized for UI

Why Flutter uses Dart?



Optimized for UI



Productive development

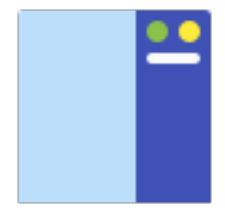
```
// Java  
public class Person{  
    int year = 30;  
  
    @Override  
    public String toString() {  
        return "I am " + year + " old";  
    }  
}
```

```
// Kotlin  
class Person{  
    var year: Int = 30  
  
    override fun toString() = "I am $year old"  
}
```

```
// Dart  
class Person{  
    int year = 30;  
  
    toString() => "I am $year old";  
}
```

```
// Typescript  
class Person{  
    year: number = 30;  
  
    public toString = () : string => {  
        return `I am ${this.year} old`;  
    }  
}
```

Why Flutter uses Dart?



Optimized for UI



Productive development



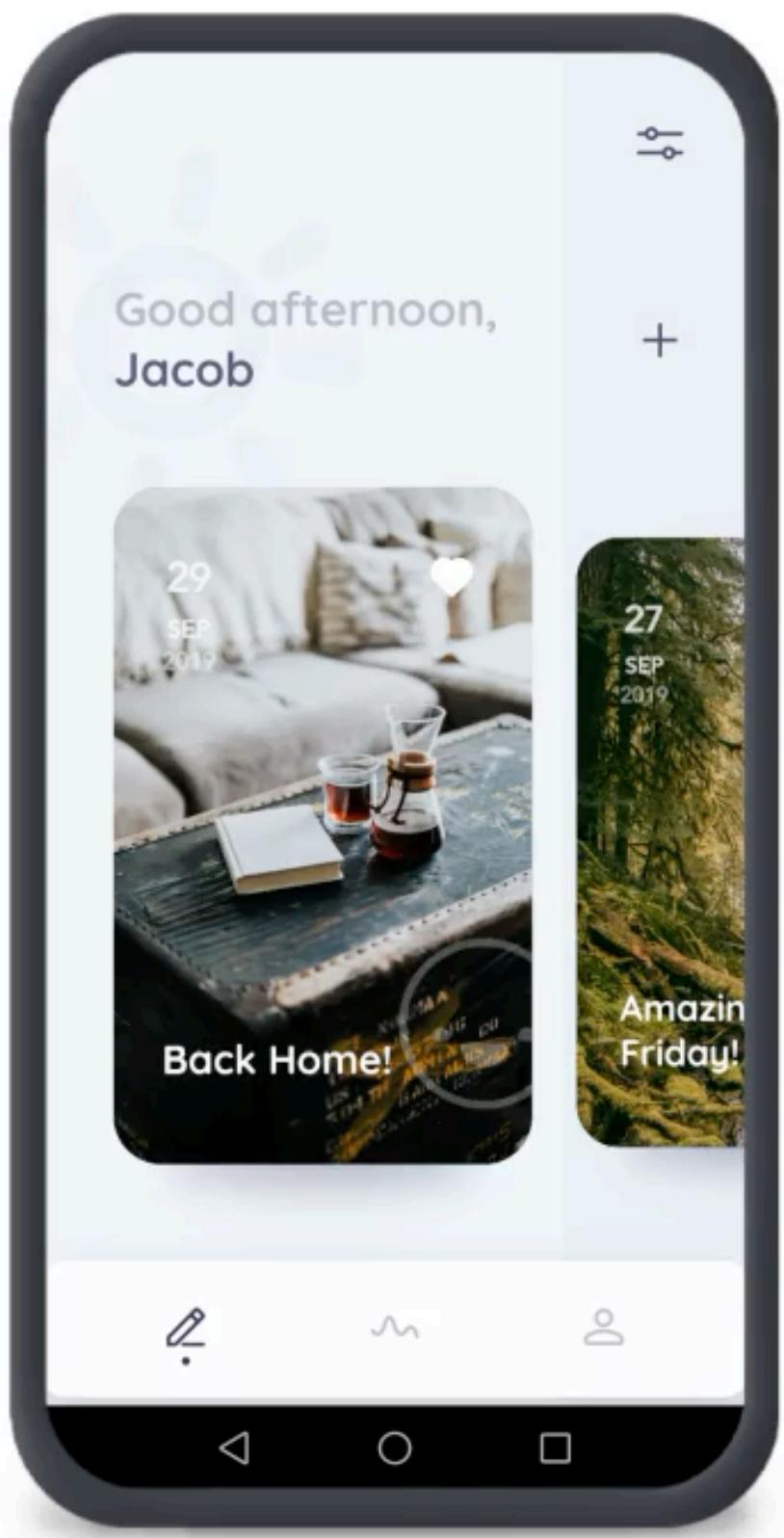
Fast on all platforms

What is Flutter?

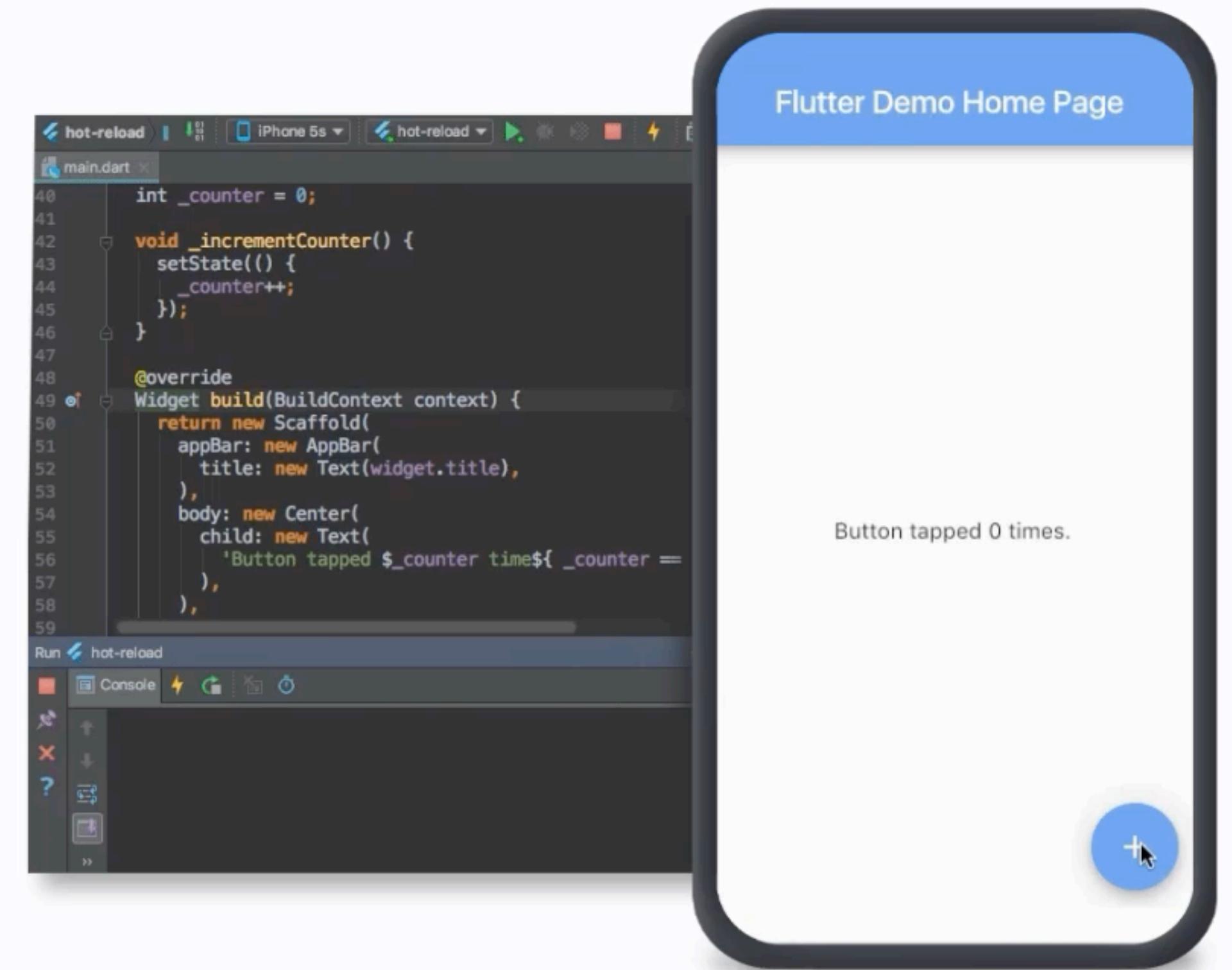


**Flutter is Google's UI toolkit for building beautiful
natively compiled applications for mobile, web,
and desktop from a single codebase**

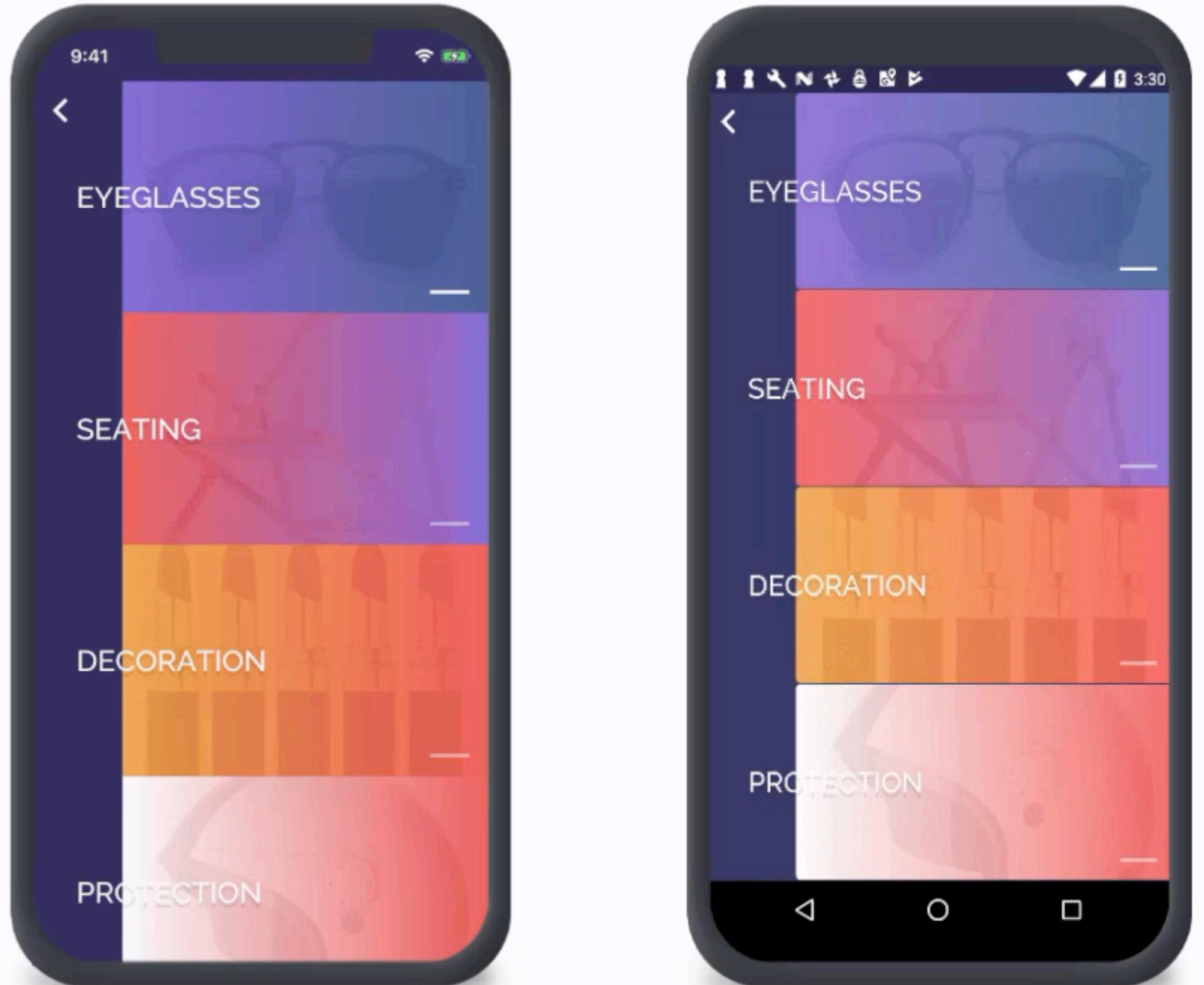
Beautiful UIs



Fast development



Native Performance



What makes Flutter unique?



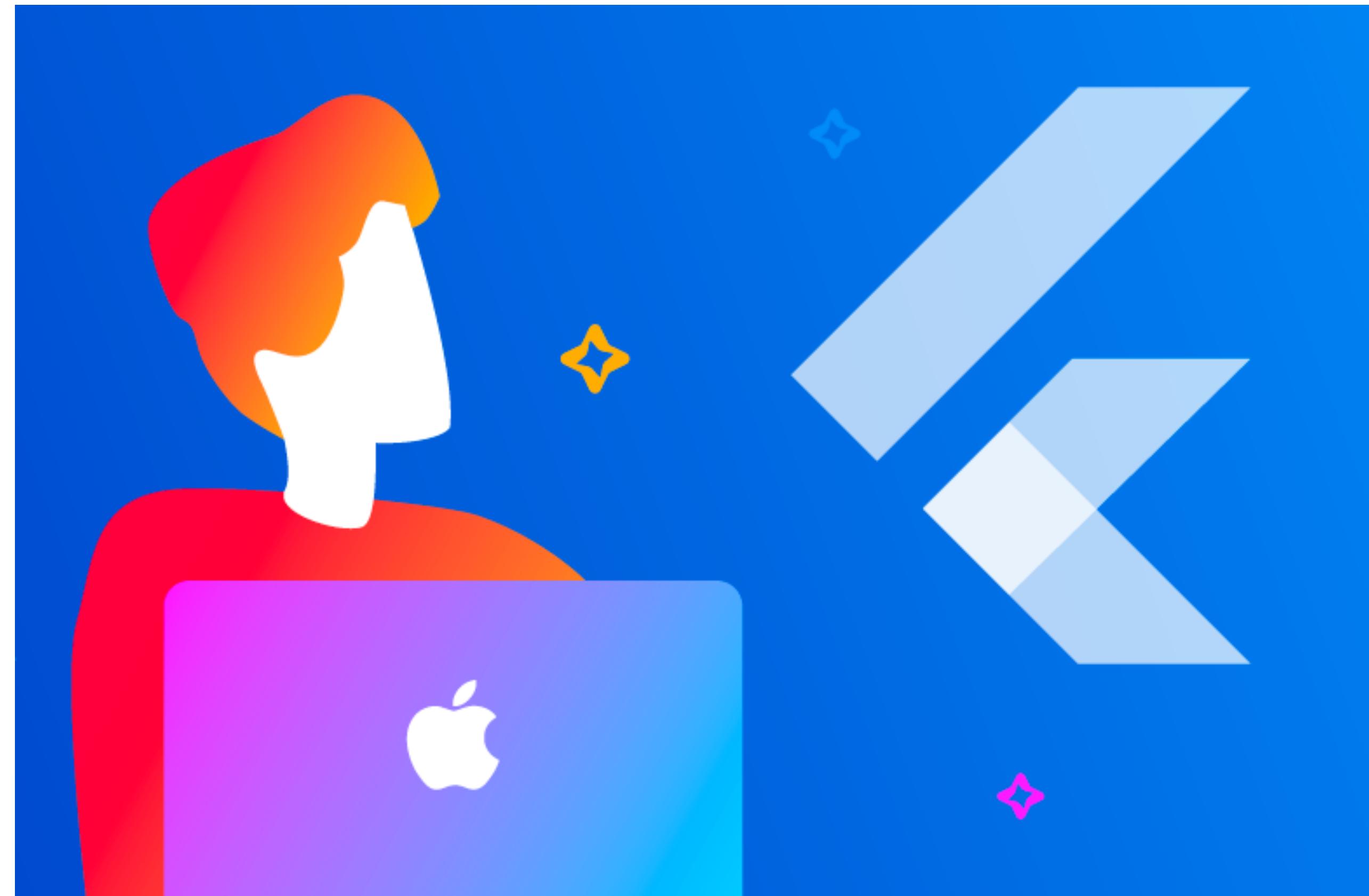
Compile to Native Code
(ARM Binary Code)



No bridge needed



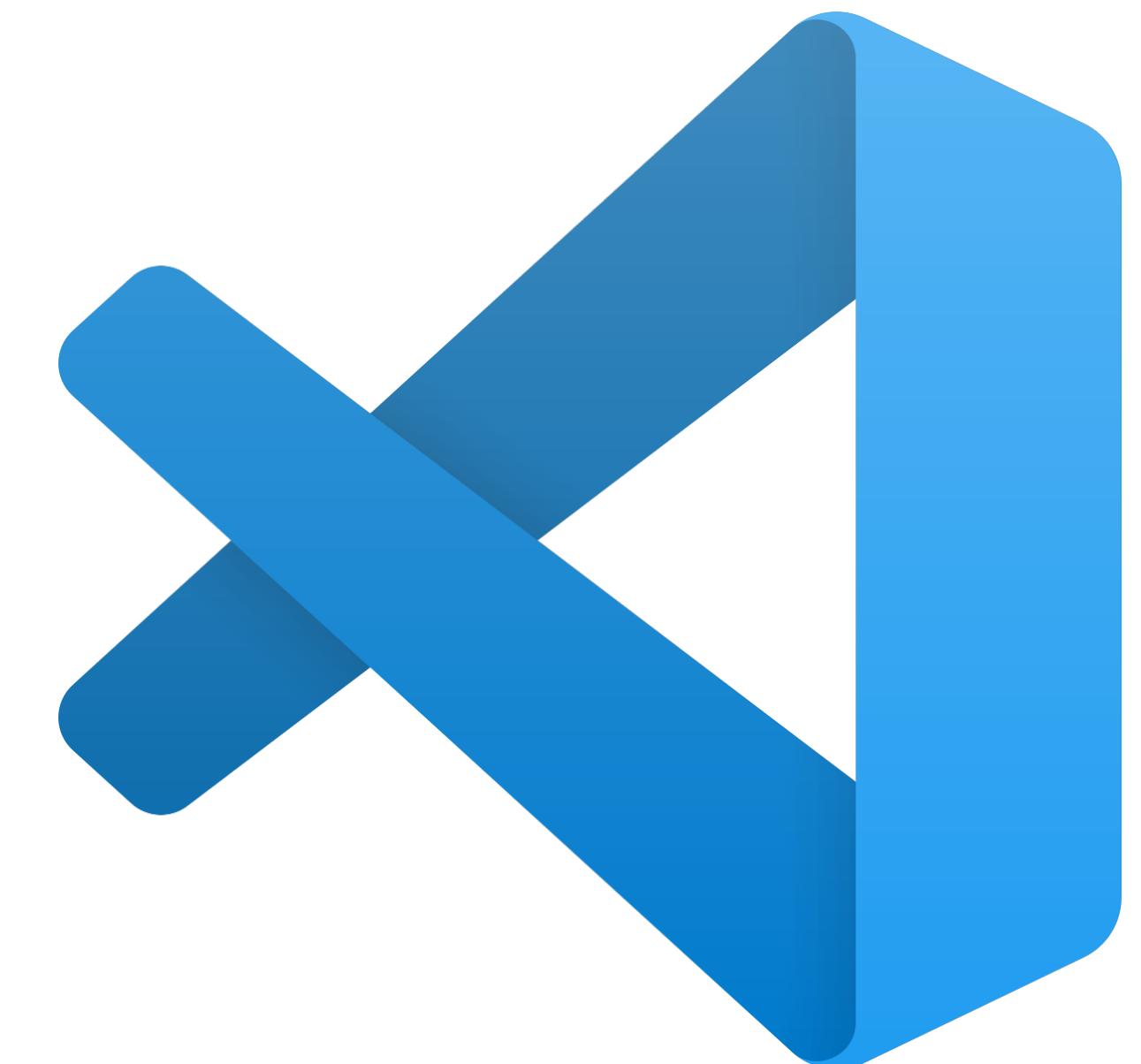
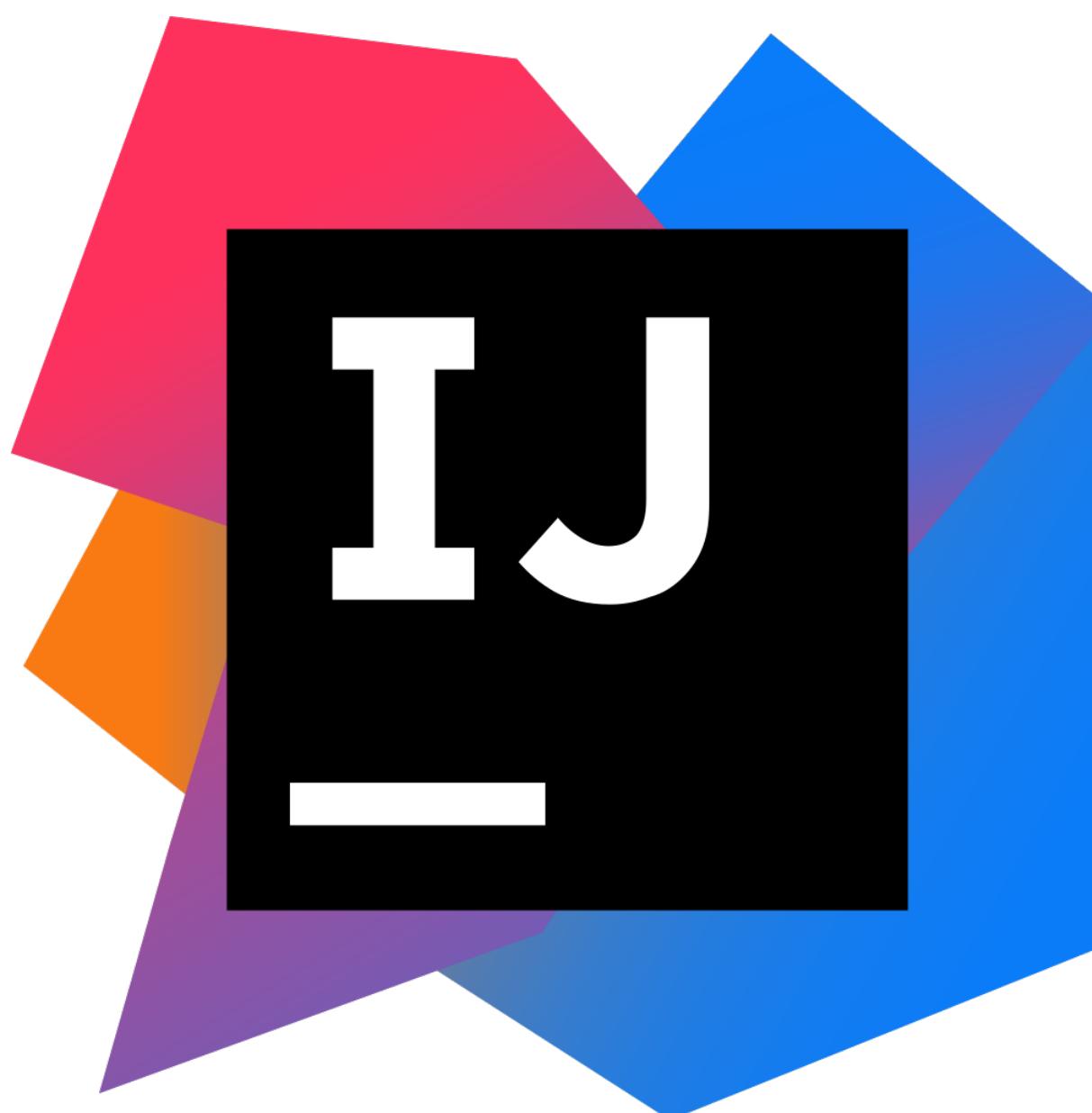
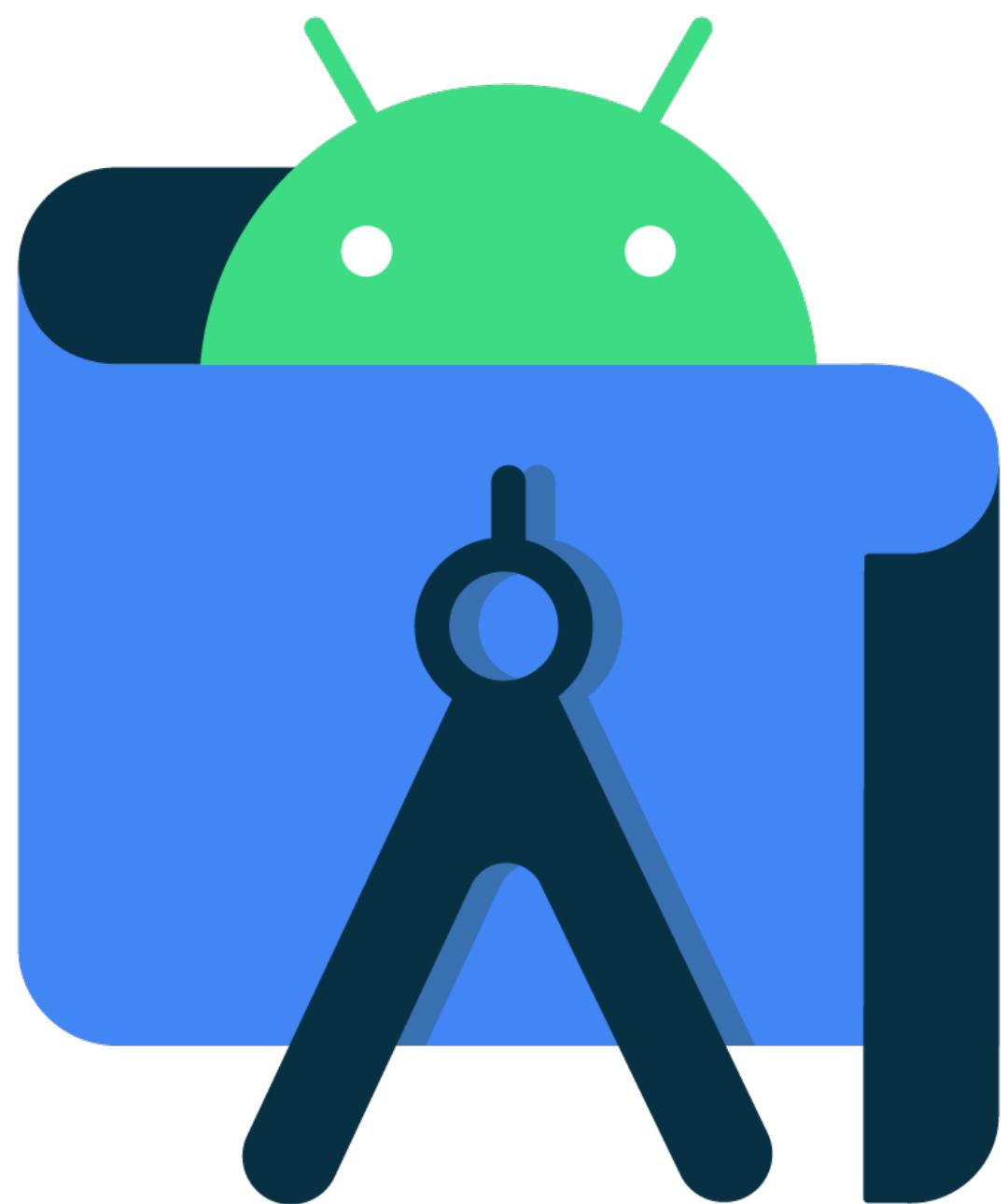
No markup language



Flutter ❤ Dart



IDE Support



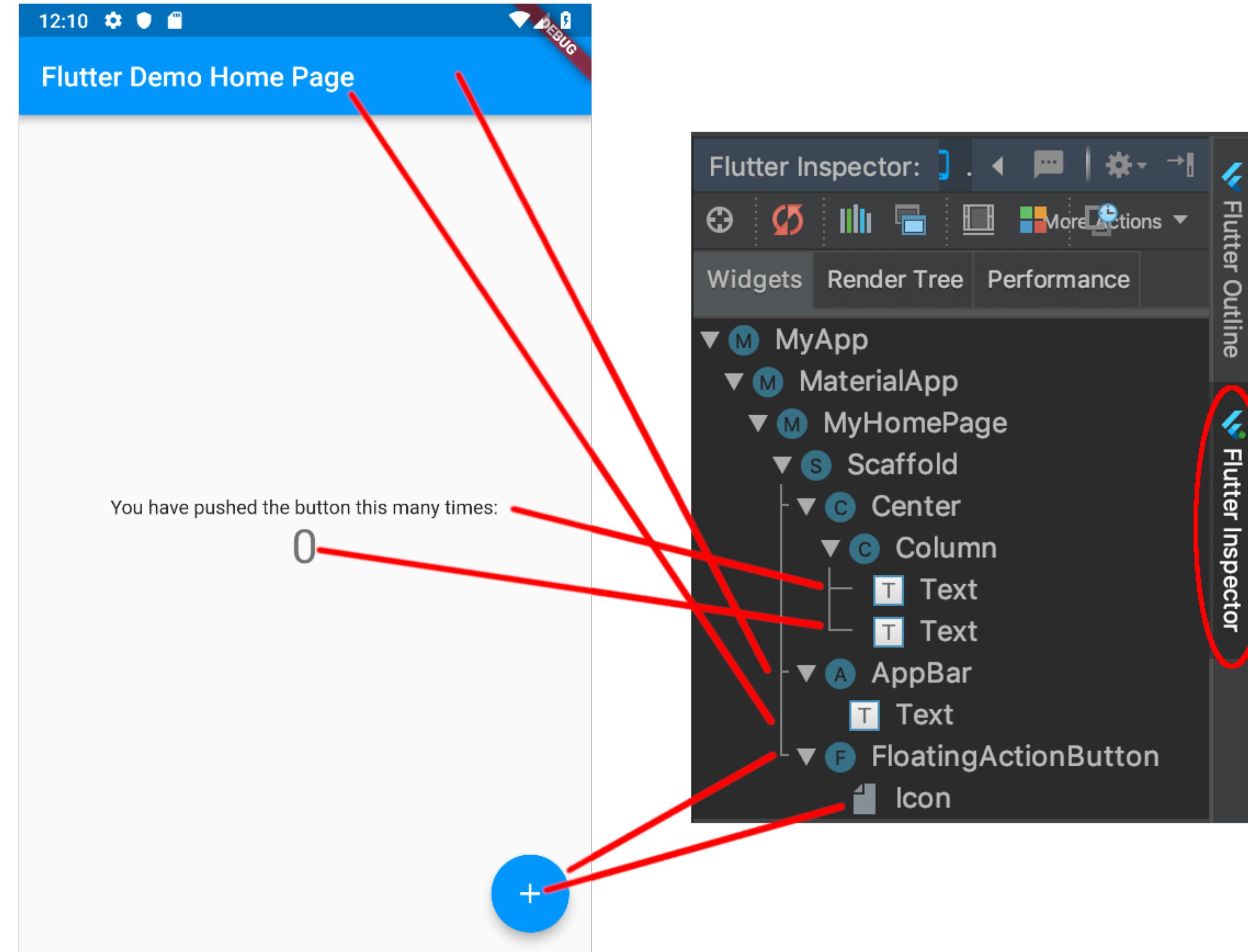
Project Structure

A photograph of a person sitting on a wooden dock extending into a calm lake. The person is seen from behind, looking out at the water. The lake is framed by towering, rugged mountains covered in dense green forests. The sky is clear and blue. The overall scene is serene and natural.

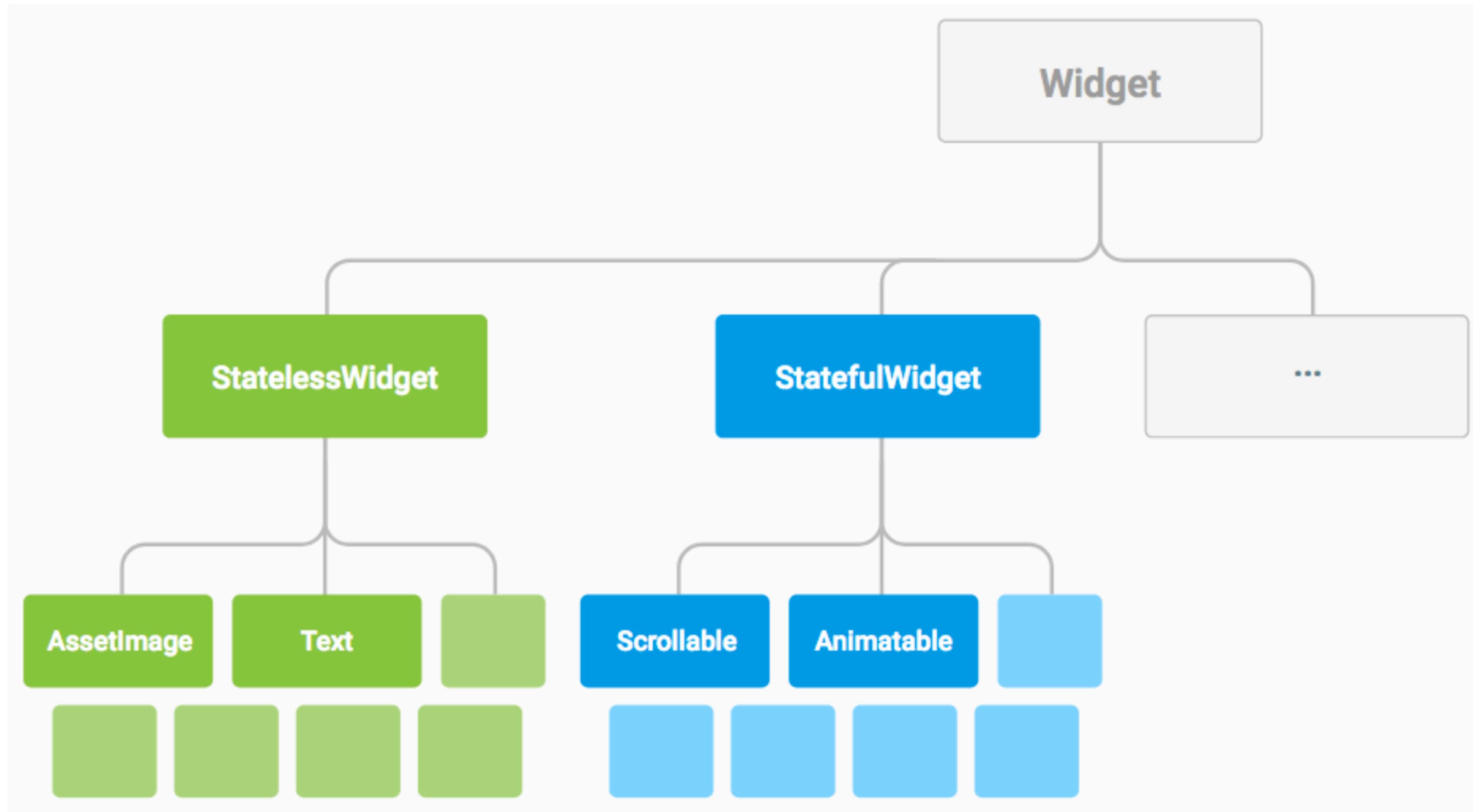
Widget, Widget, Widget!

Everything is a widget

All is a widget



Types of widget



DEMO



MICRON R2
MICRORULE
A12



What's next?



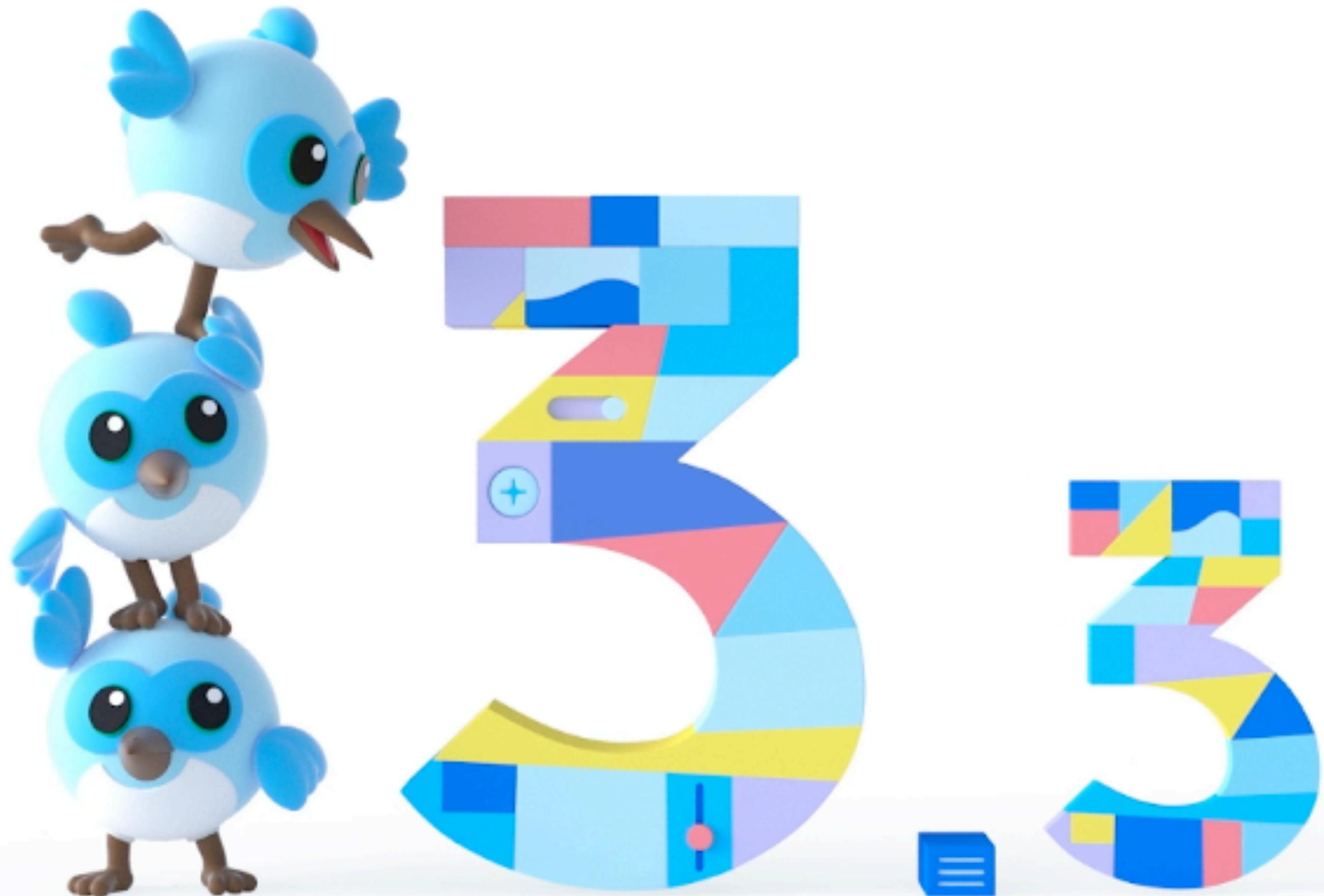
over 150,000 Flutter apps



Flutter

What's New ?

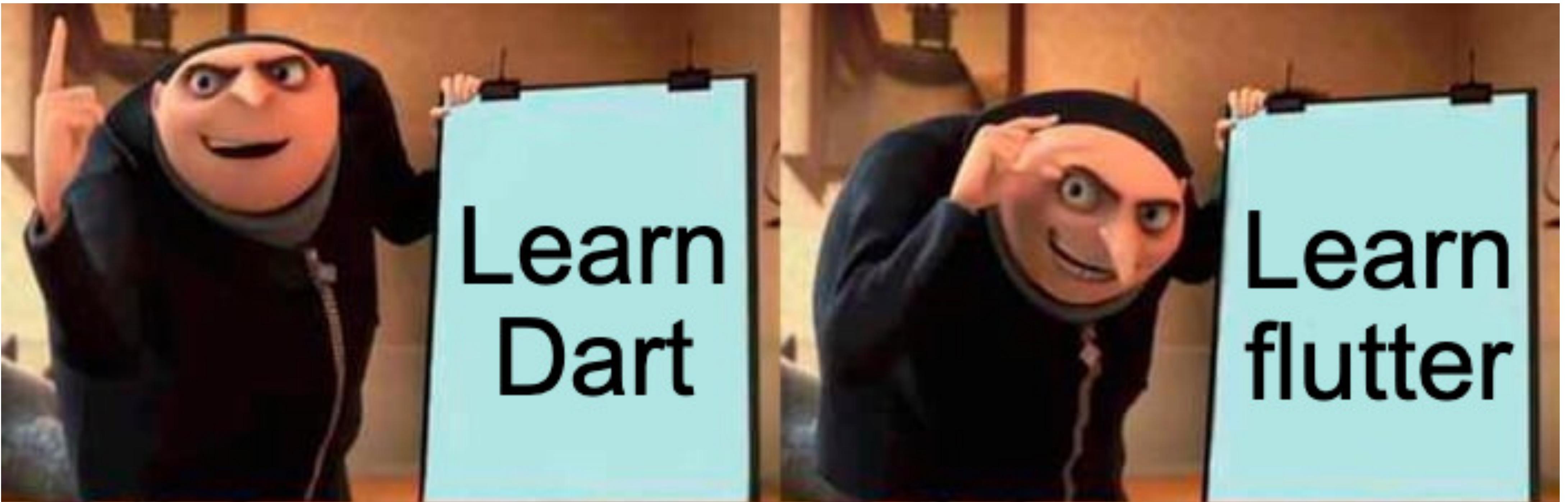
-  Mobile
-  Web
-  Desktop
-  Embedded



Recap

What we have learned

- 👉 An introduction of Dart language
- 👉 An introduction of Flutter
- 👉 Key strength of Flutter
- 👉 Project structure
- 👉 All is a Widgets
- 👉 Flutter 3.3





Q&A