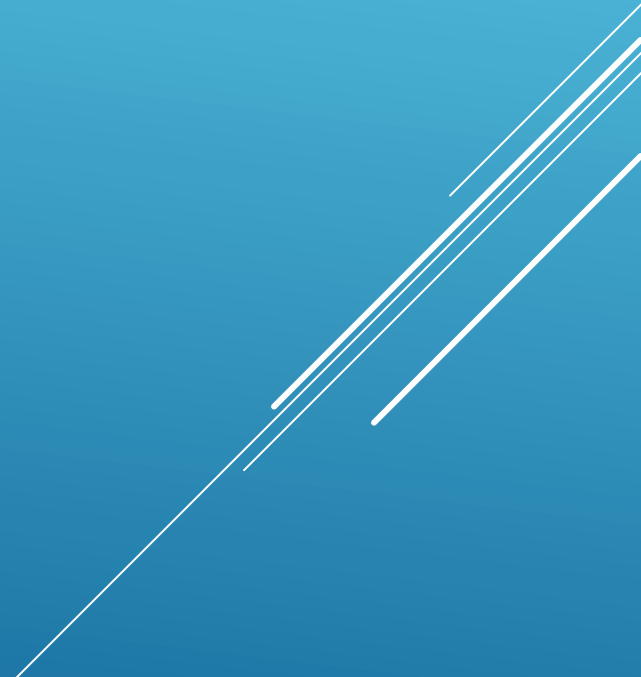




# INTRODUCTION TO FLUTTER

Presented by Wing Chan

# AGENDA

- ▶ What is Flutter?
  - ▶ Flutter vs Xamarin
  - ▶ Demo
  - ▶ Q&A?
- 
- A series of white diagonal lines of varying lengths and thicknesses are positioned in the bottom right corner of the slide, creating a modern, abstract graphic element.

# WHAT IS FLUTTER?

- ▶ Made by Google
  - ▶ Cross platform Mobile framework (iOS & Android)
    - ▶ Future Roadmap: Web, Desktop & Embedded devices
  - ▶ Open source
  - ▶ Initial release in May 2017
  - ▶ Written in Dart
- 
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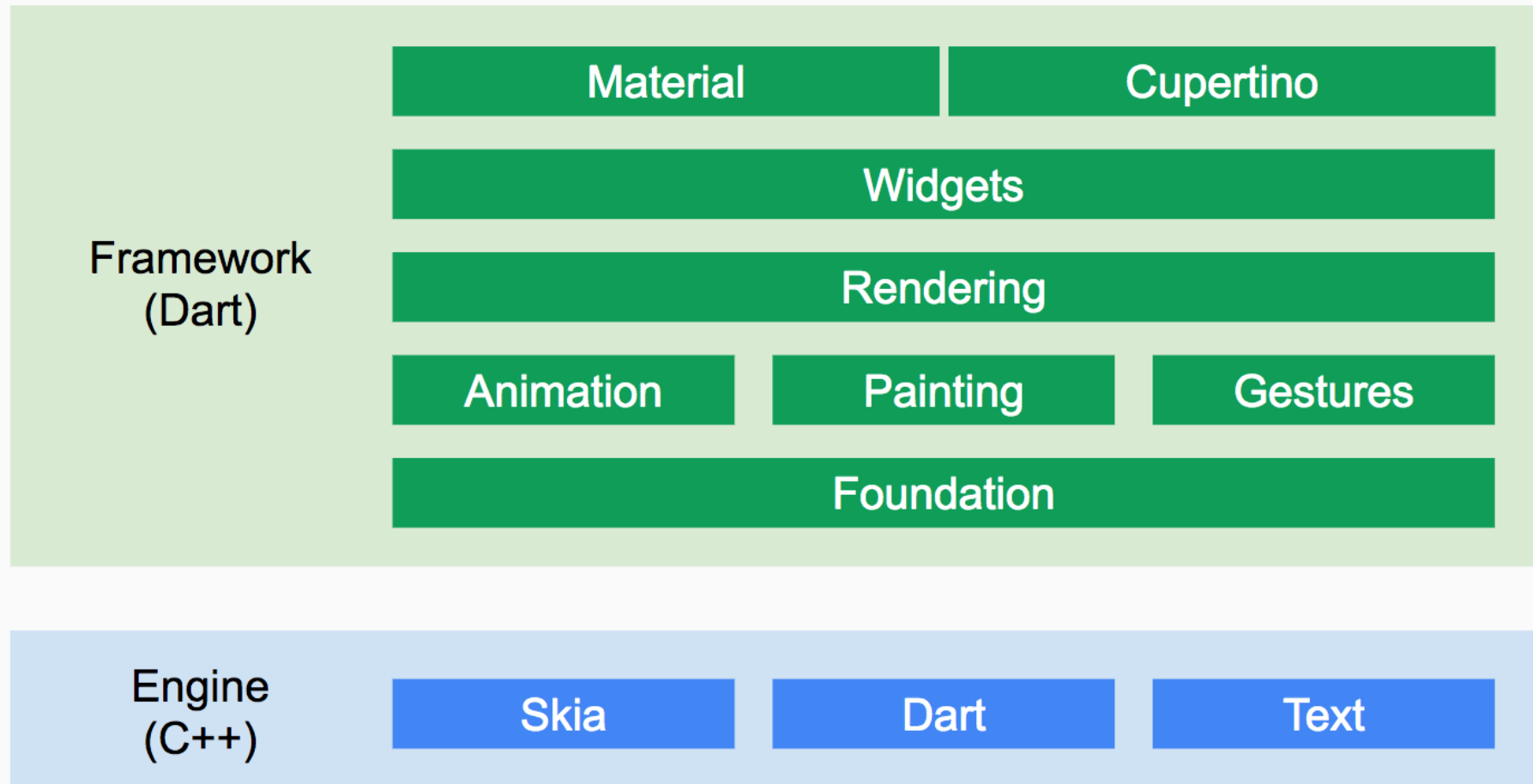
# WHAT IS DART?

- ▶ Dart is an object-oriented, class defined, garbage-collected language using a C-style syntax created by Google.

```
import 'dart:math' as math;
class Point {
  final num x, y;
  Point(this.x, this.y);
  Point.origin(): x = 0, y = 0;
  num distanceTo(Point other) {
    var dx = x - other.x;
    var dy = y - other.y;
    return math.sqrt(dx * dx + dy * dy);
  }
  Point operator +(Point other) => Point(x + other.x, y + other.y);
}

void main() {
  var p1 = Point(10, 10);
  var p2 = Point.origin();
  var distance = p1.distanceTo(p2);
  print(distance);
}
```

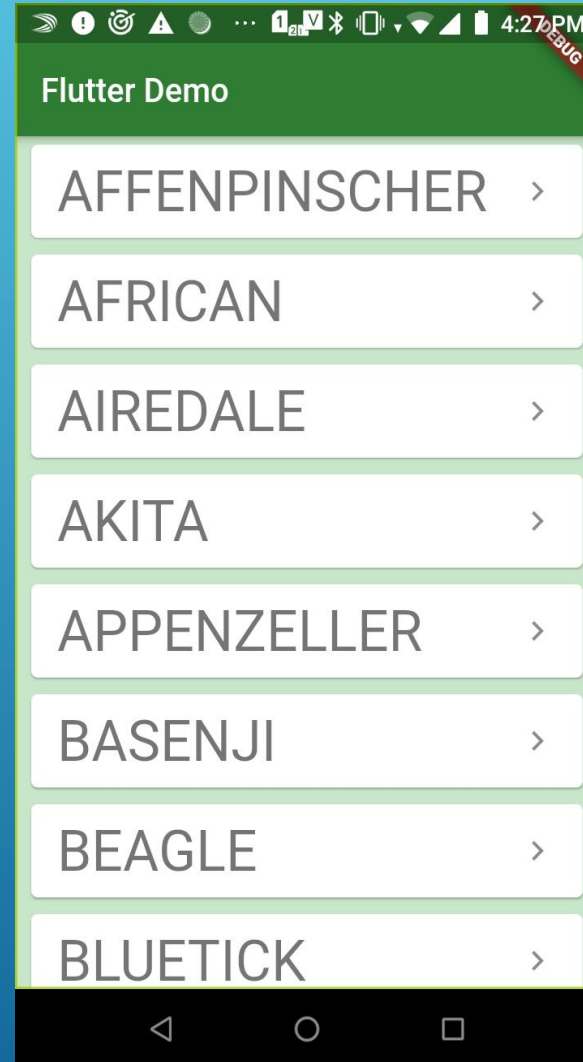
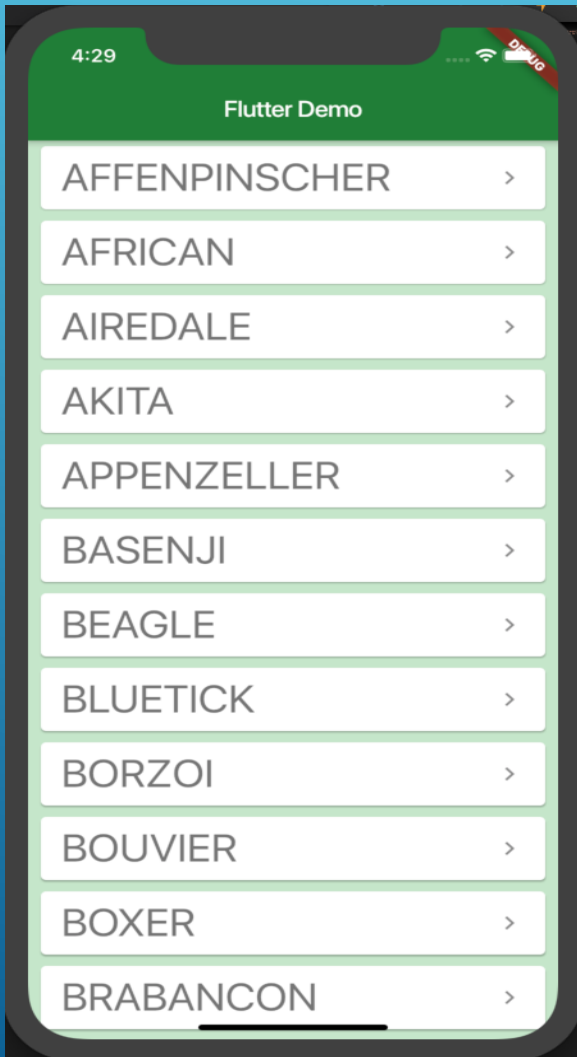
# FLUTTER SYSTEM OVERVIEW



	Xamarin	Flutter
Code	C#	Dart
Compilation	iOS:AOT, Android:JIT	AOT + Dart VM
Portability	iOS, Android, Windows, MacOS	Current: IOS, Android Future: Web, Desktop and Embedded
Code Reuse	Xamarin Native: Moderate Xamarin Form: High	High
UI	Native components	Customize UI Widgets
Price	Free, Open Source	Free, Open Source
Community	Large	Growing
App Size	Relatively Big	Relatively Big
Graphics handling	Poor	Moderate (60 fps)

# FLUTTER VS XAMARIN

# DEMO



# Q&A

- ▶ Demo Source Code: <http://bit.ly/2LHyg4r>
  - ▶ Flutter: <http://flutter.dev>
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