



# What Is Flutter?

# What Is Flutter?



## UI Framework

Code packages & utility functions for writing cross-platform app code



## Collection of Tools

CLI & software that helps with developing, testing & building cross-platform apps

# What Is Flutter?



## UI Framework

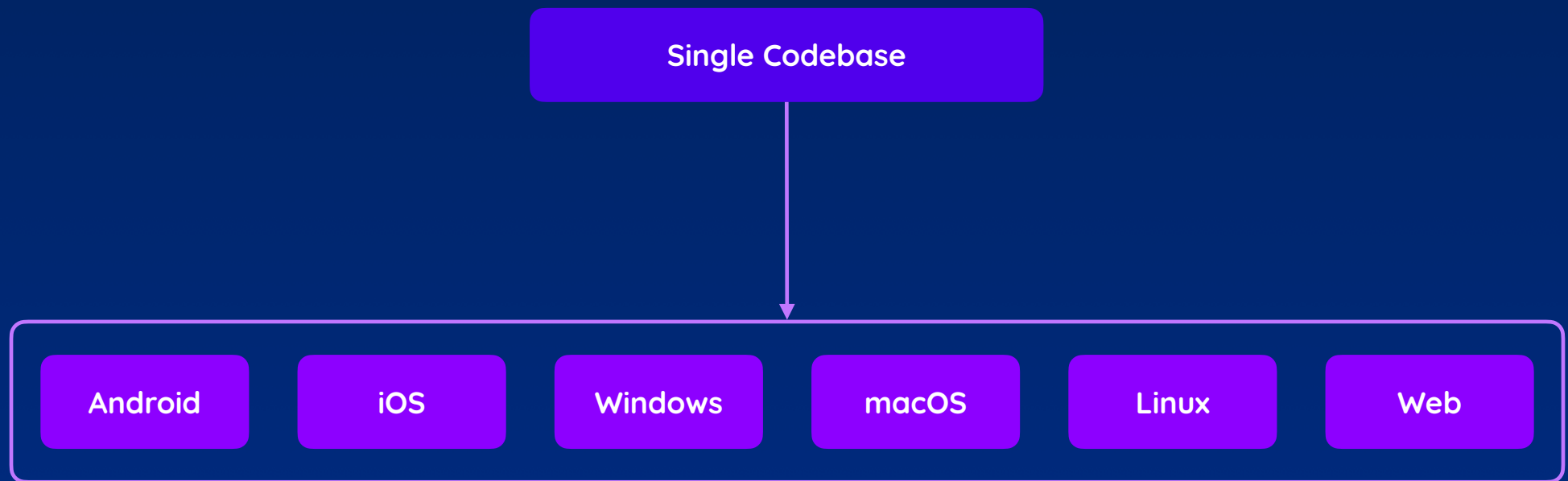
Code packages & utility functions for writing **cross-platform** app code

## Collection of Tools

CLI & software that helps with developing, testing & building **cross-platform** apps

Flutter allows you to build **multi-platform apps** based on **one single codebase** and programming language

# One Codebase, Multiple Apps



# From Flutter Code To Platform Code

Single Codebase



Flutter translates that code to  
platform-specific machine code

Machine Code

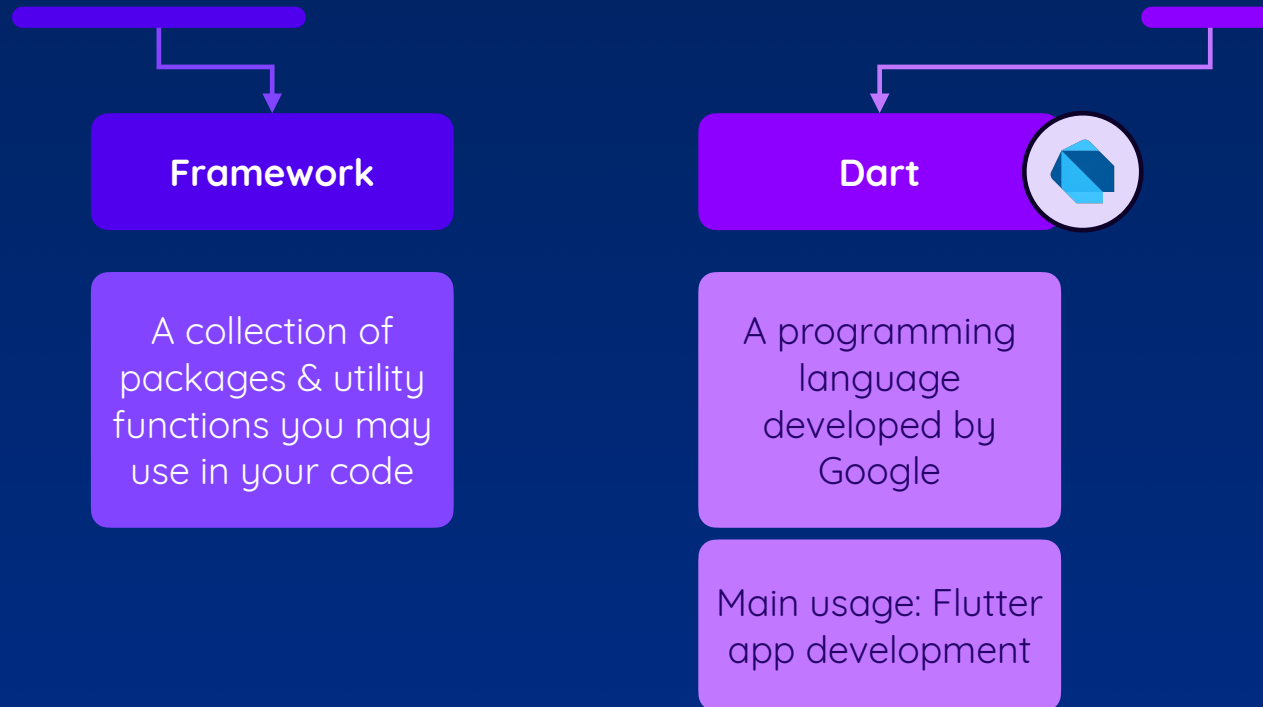
Android

iOS

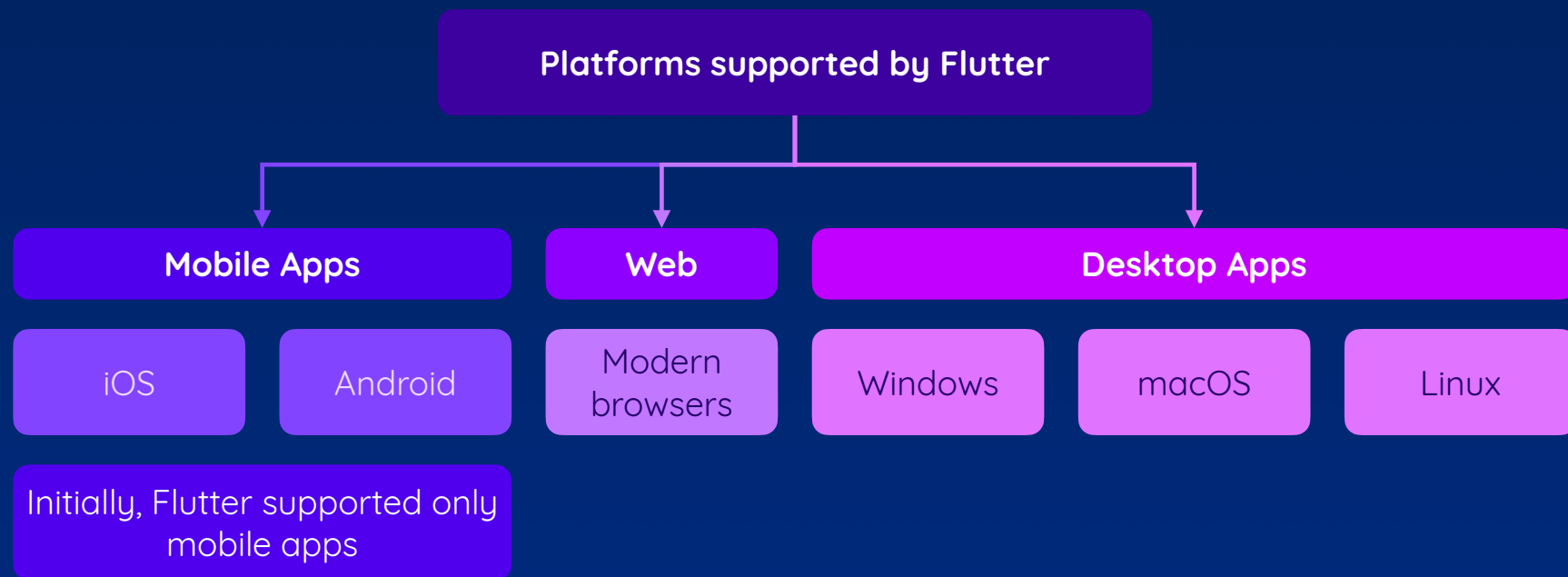


# Flutter Is Not A Programming Language!

It's a **framework** for building user interfaces with **Dart**



# Target Platforms



Whilst you can write the code for all platforms on the same machine, you can **only test & run iOS & macOS apps on macOS machines, Windows apps on Windows machines and Linux apps on Linux machines!**

Android and web apps can be built on all operating systems.

# Flutter Setup

1



## Flutter SDK

Flutter SDK

For managing Flutter projects

Git

Version control software, used internally by Flutter SDK

2



## Platform Tools

Android Studio

Used by Flutter SDK & needed for Android app deployment

XCode

Used by Flutter SDK & needed for iOS app deployment

3



## Virtual Devices

Android

Preview Flutter apps on virtual Android devices

iOS

Preview Flutter apps on virtual iOS devices





# Target Platform Tools & Devices Setup

on Windows

on macOS

on Linux

build **iOS** Apps

Not possible

Download & install XCode

Configure XCode  
command-line tools

Create local iOS simulator

Not possible

build **Android** Apps

Download & install Android Studio

Install SDK, command-line tools & build tools

Create local Android emulator





# It's one shared codebase!

You can write code for iOS apps on  
Windows machines

You just can't build + deploy iOS apps from  
there

# About This Course

## Beyond the Basics

Animating apps, connecting a backend, using native device features (e.g., camera) & more

## Advanced Features

Handling user interactions, customizing styles, building multi-screen apps

## Dart & Flutter Fundamentals

Base syntax, core features & foundational concepts needed to build mobile app user interfaces

