



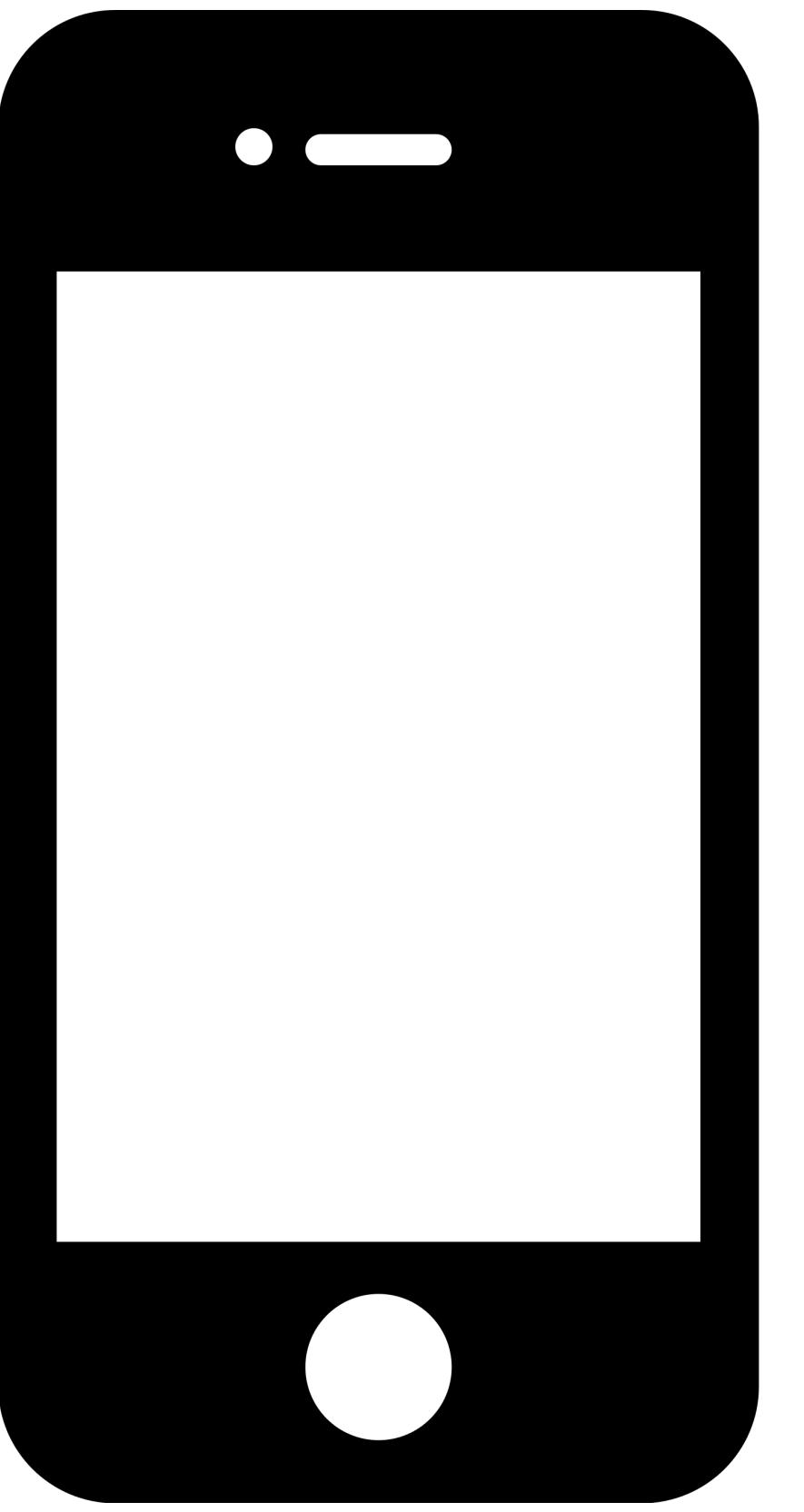
The Last Xamarin Talk in 2016

Vojtěch Mádr





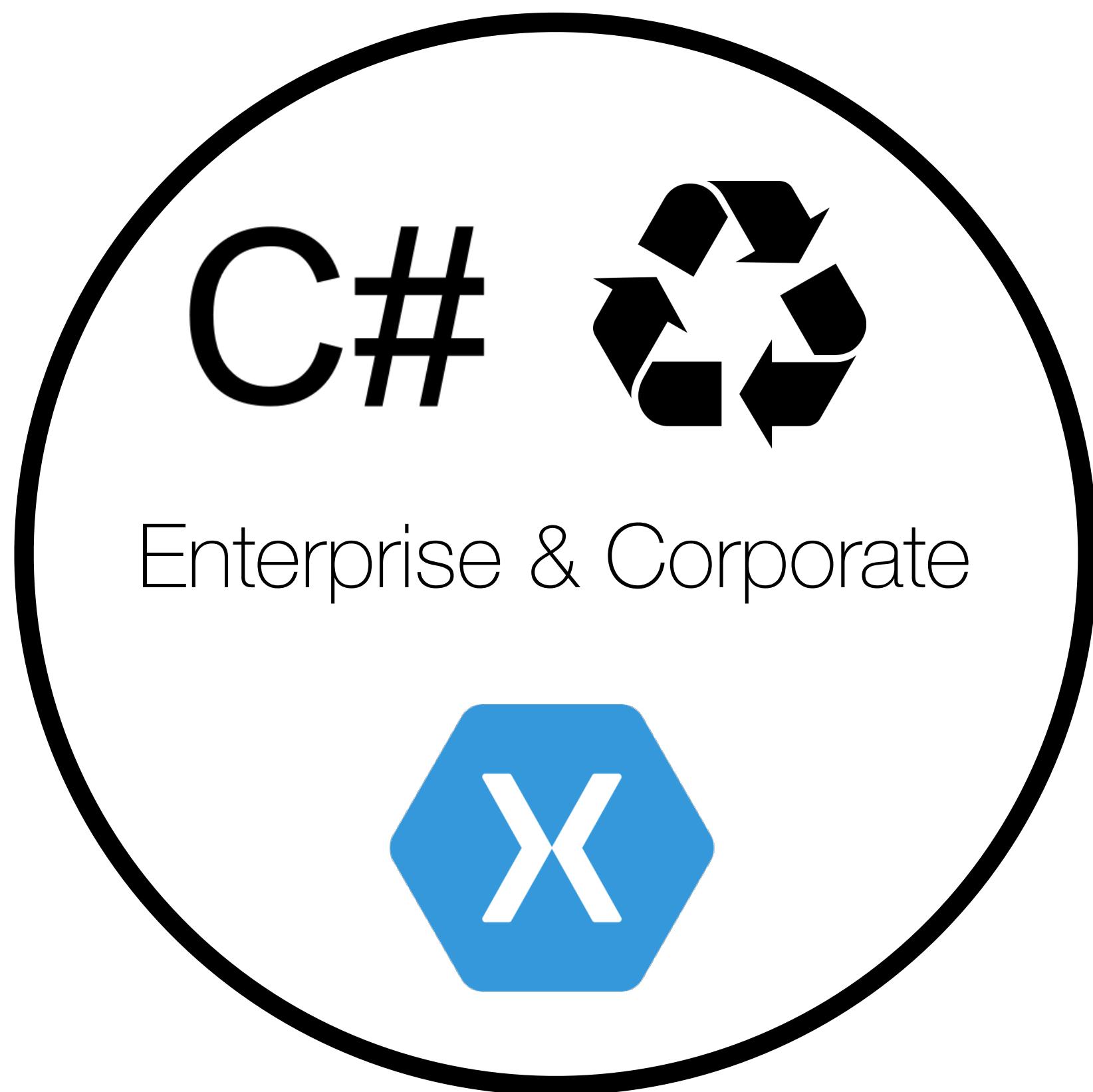
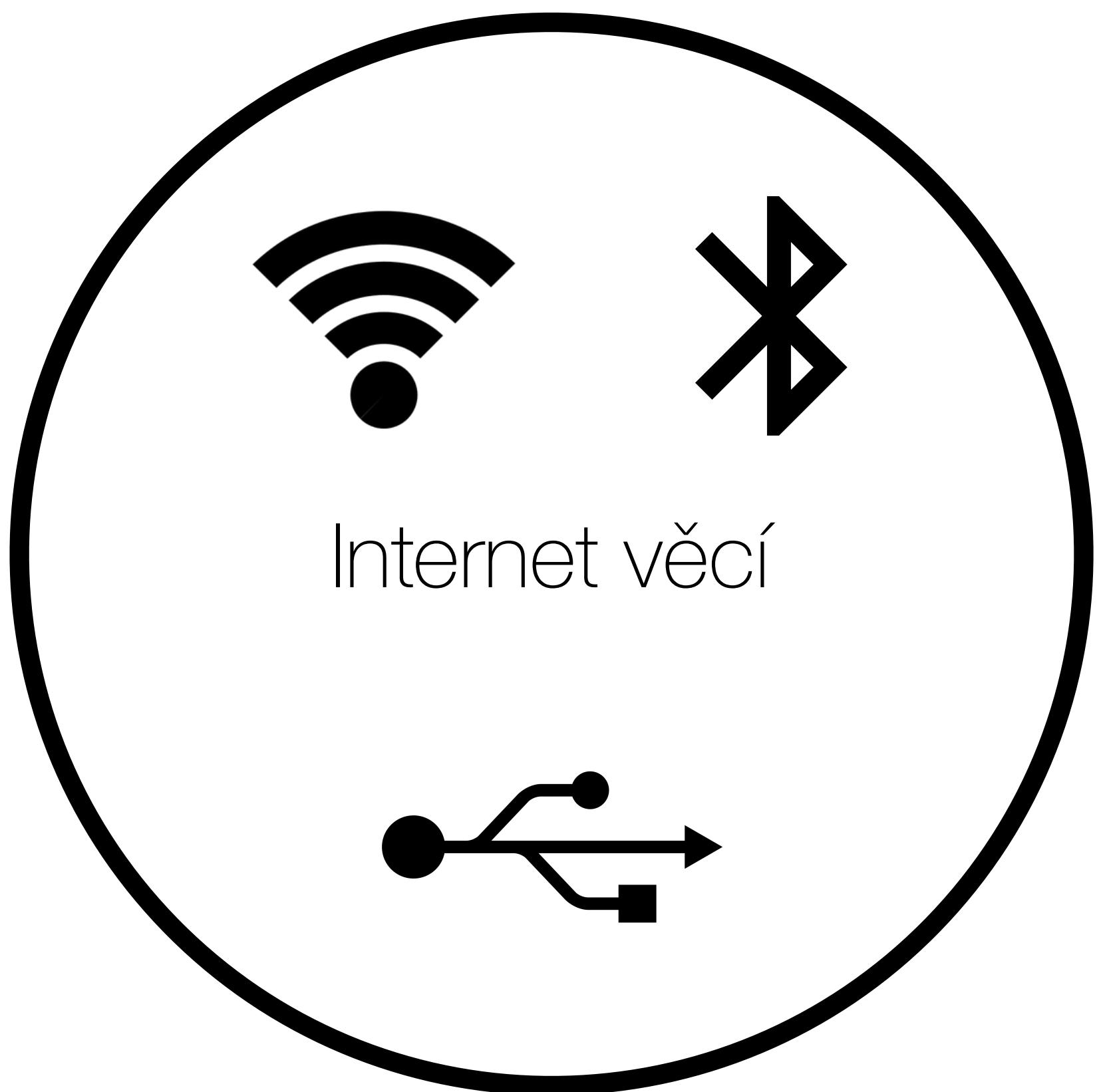
Motivation



VS



Xamarin Why? Where?

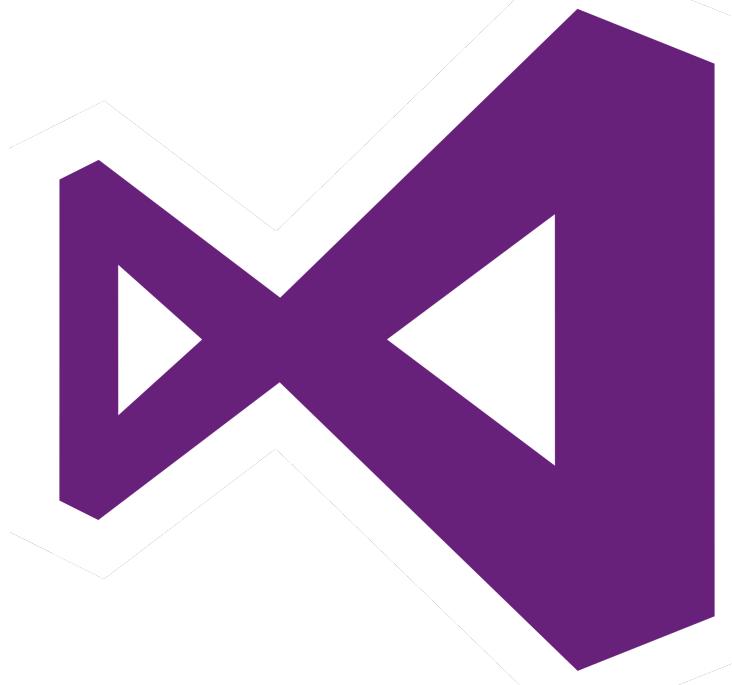


Licence model

Opensource

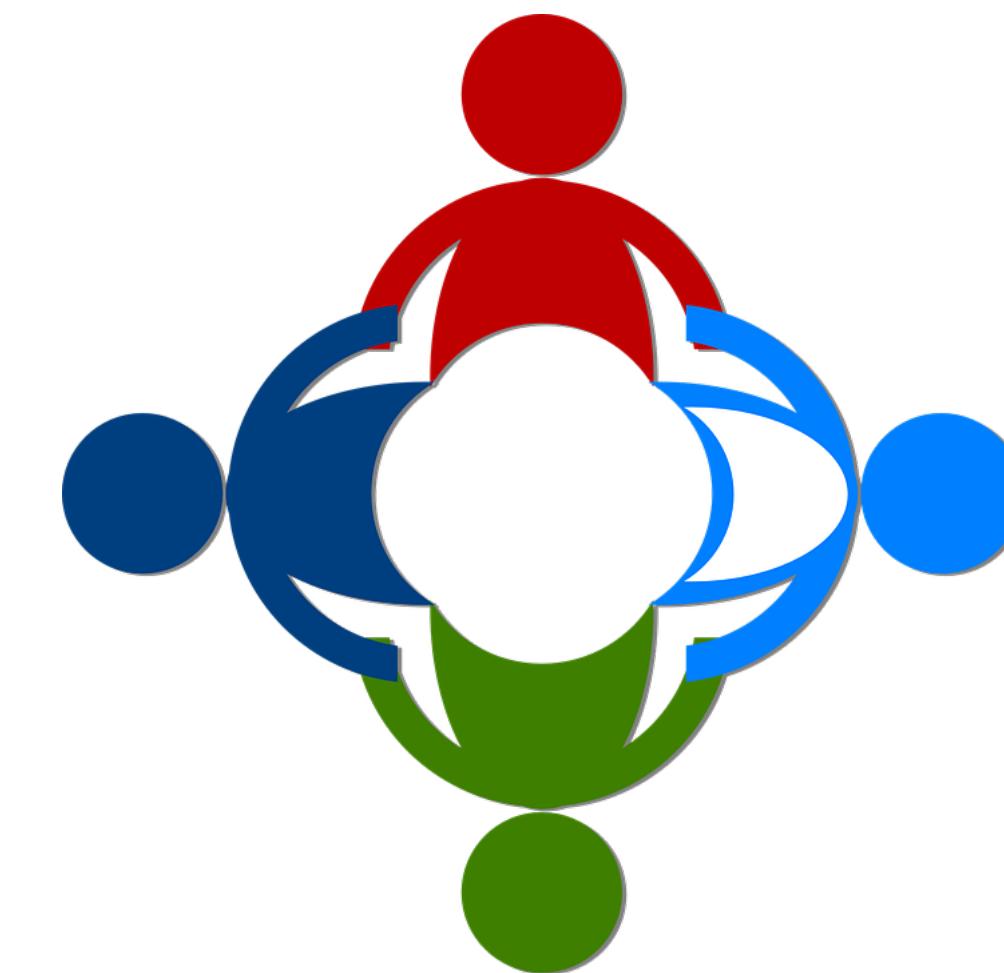
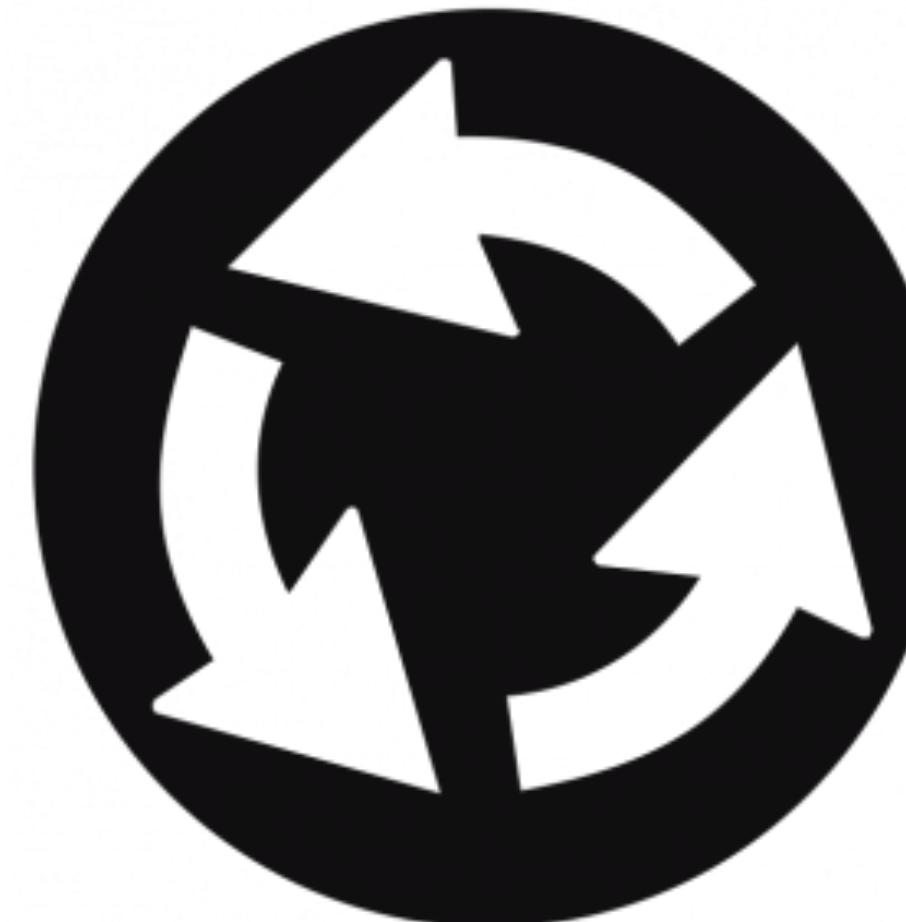
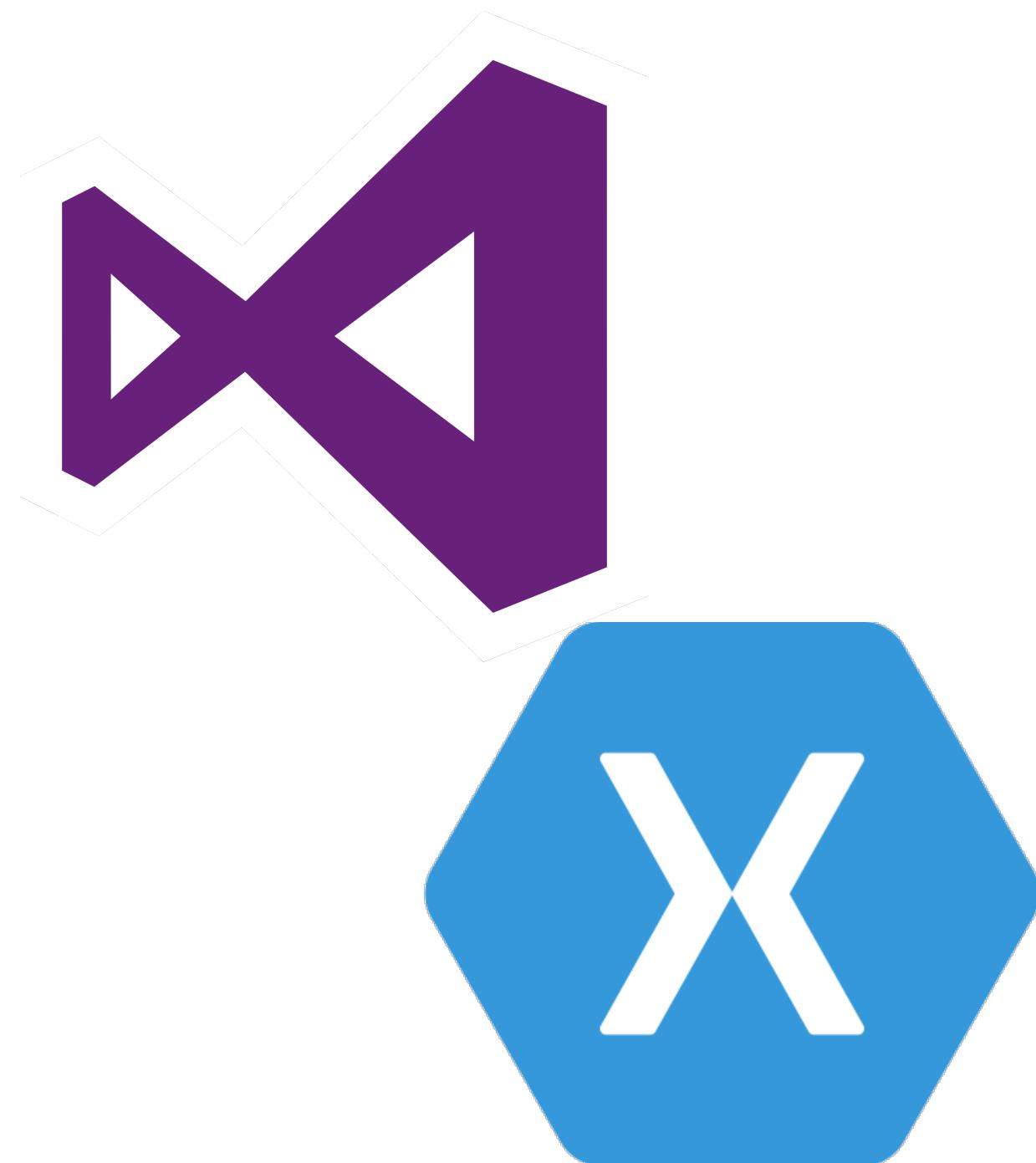


Community
Professional

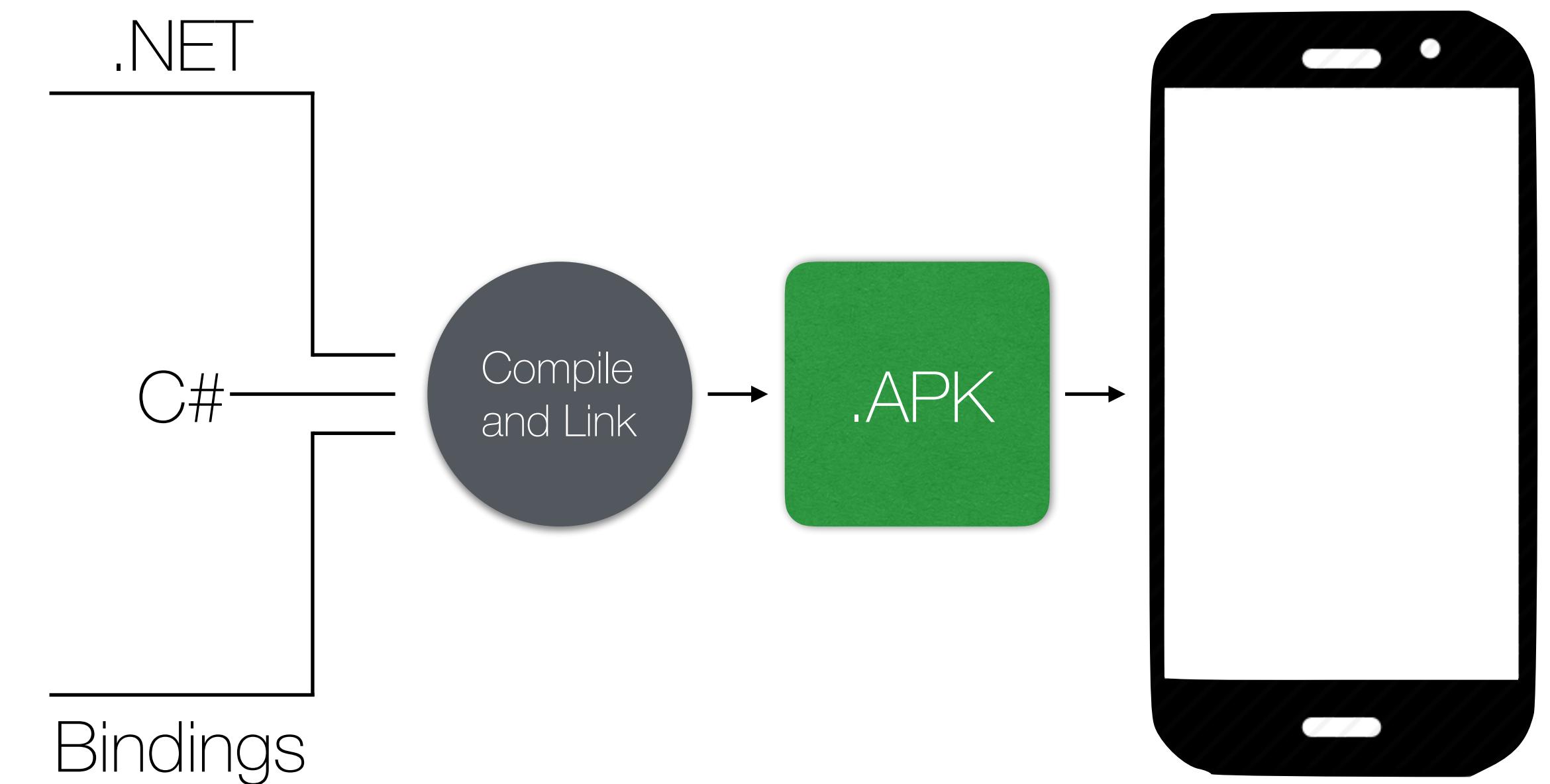
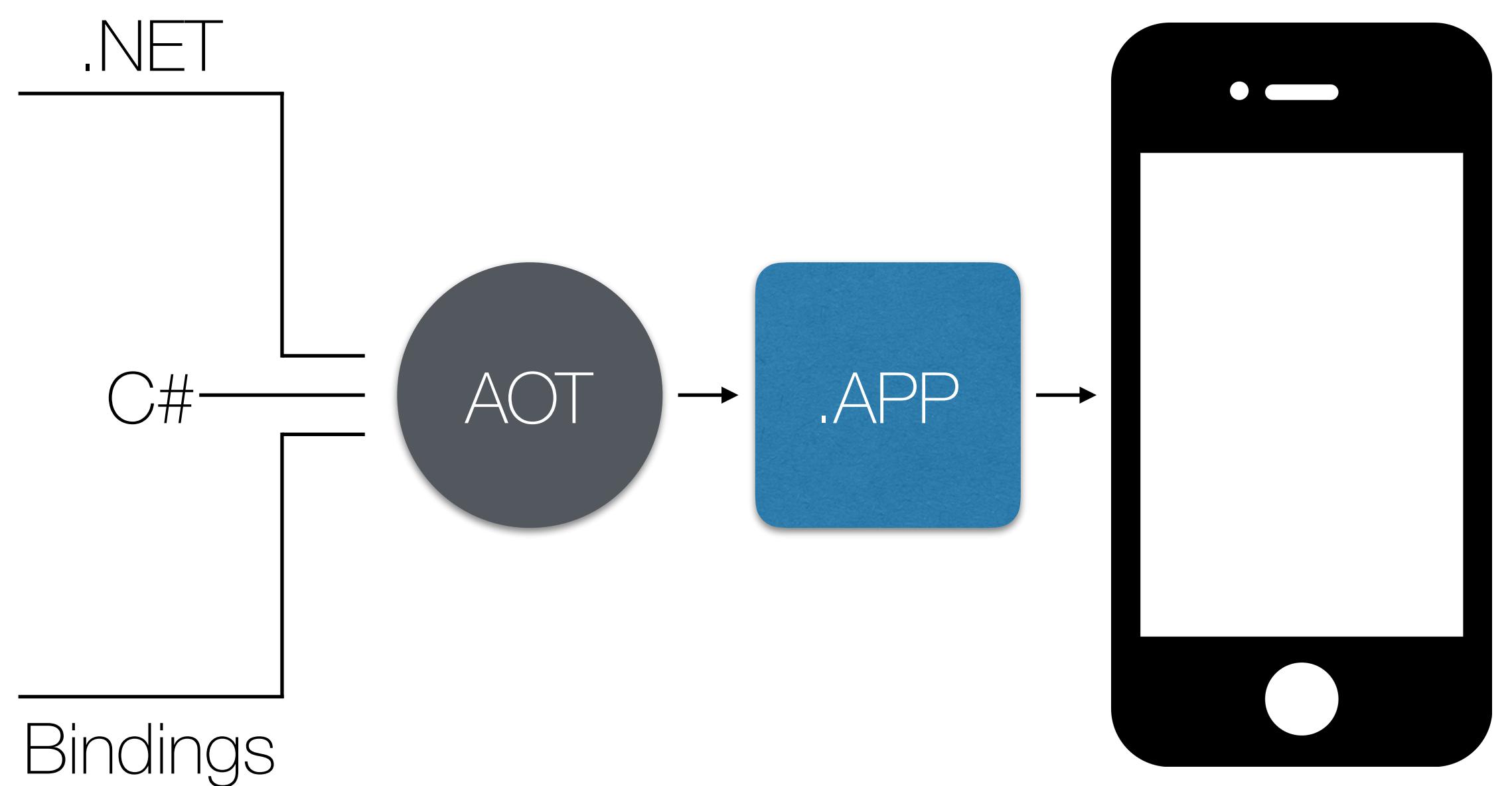


Community
Professional
Enterprise

Basic features of Xamarin



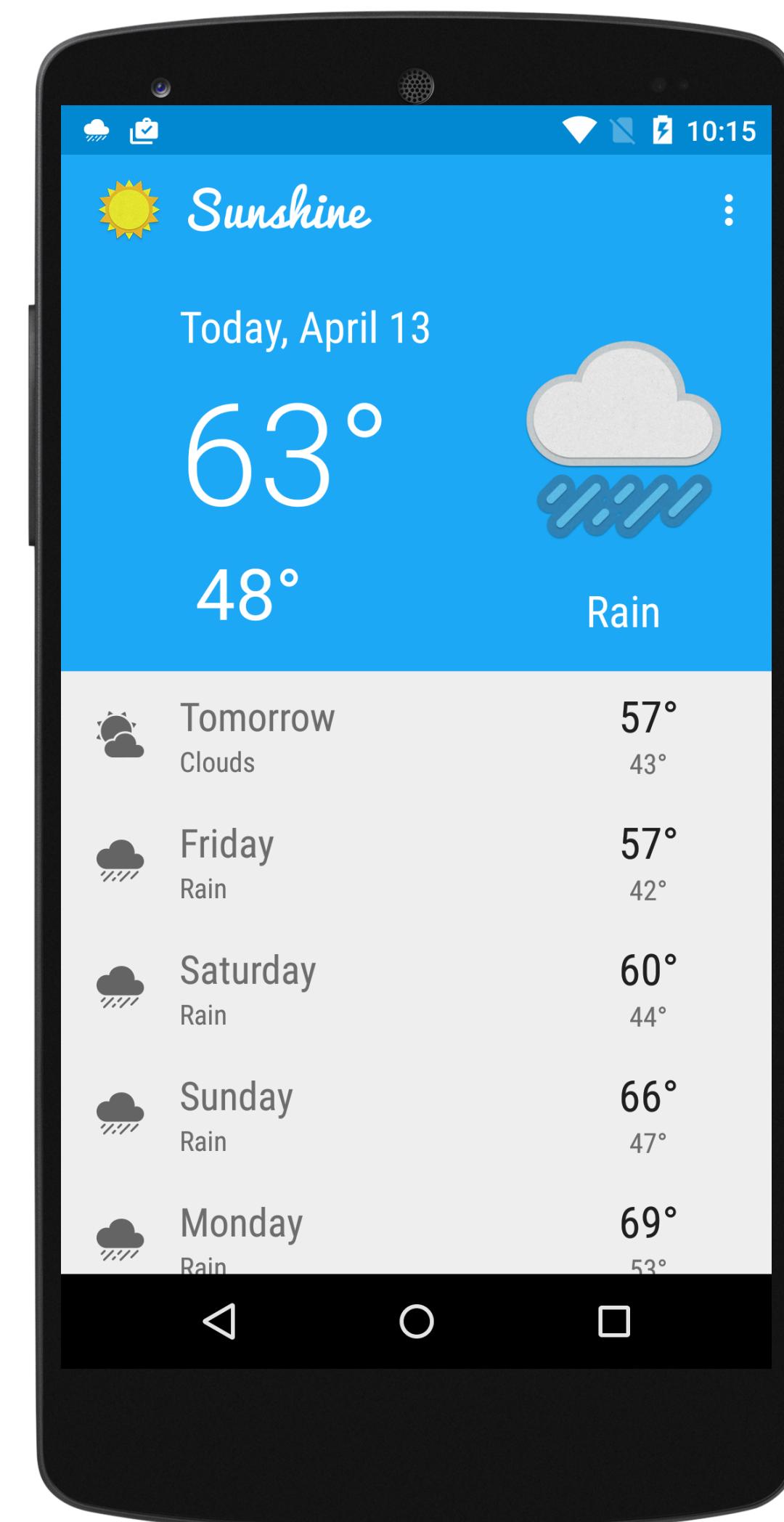
How Xamarin Works



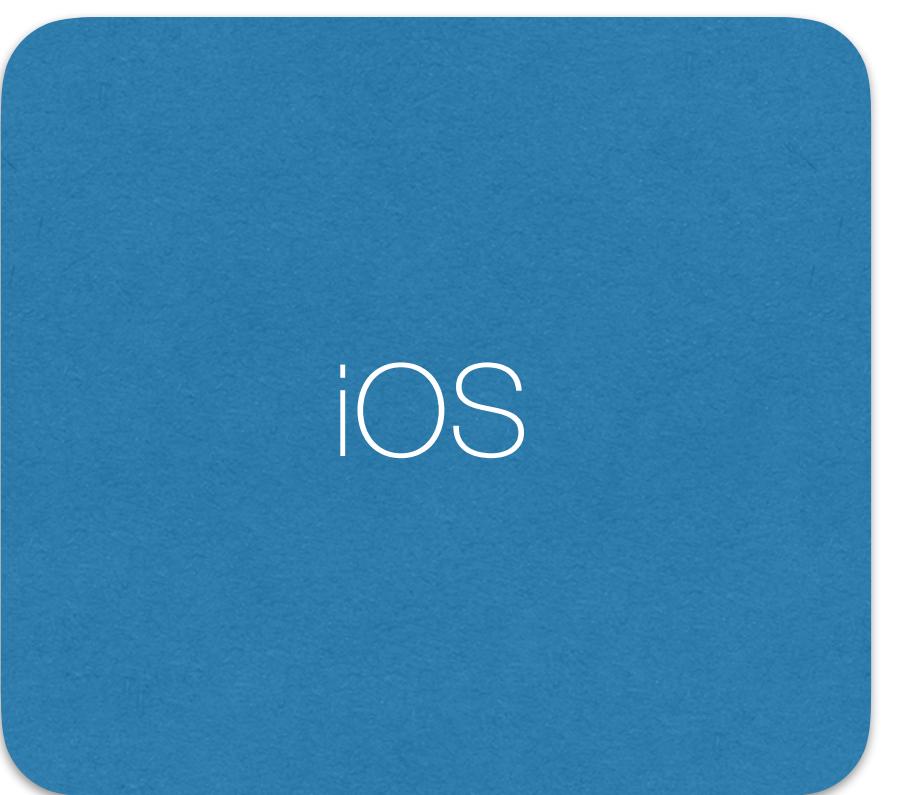
Is Xamarin Native? Try Sunshine!

<https://github.com/madvojt/Sunshine-Xamarin>

<https://rink.hockeyapp.net/apps/b632892031c04a5cb7aecc6452a0b1e4>



Xamarin Core Approach



Shared Codebase

Tests and performance

Core

100% API access

Xamarin Forms

All Platforms View

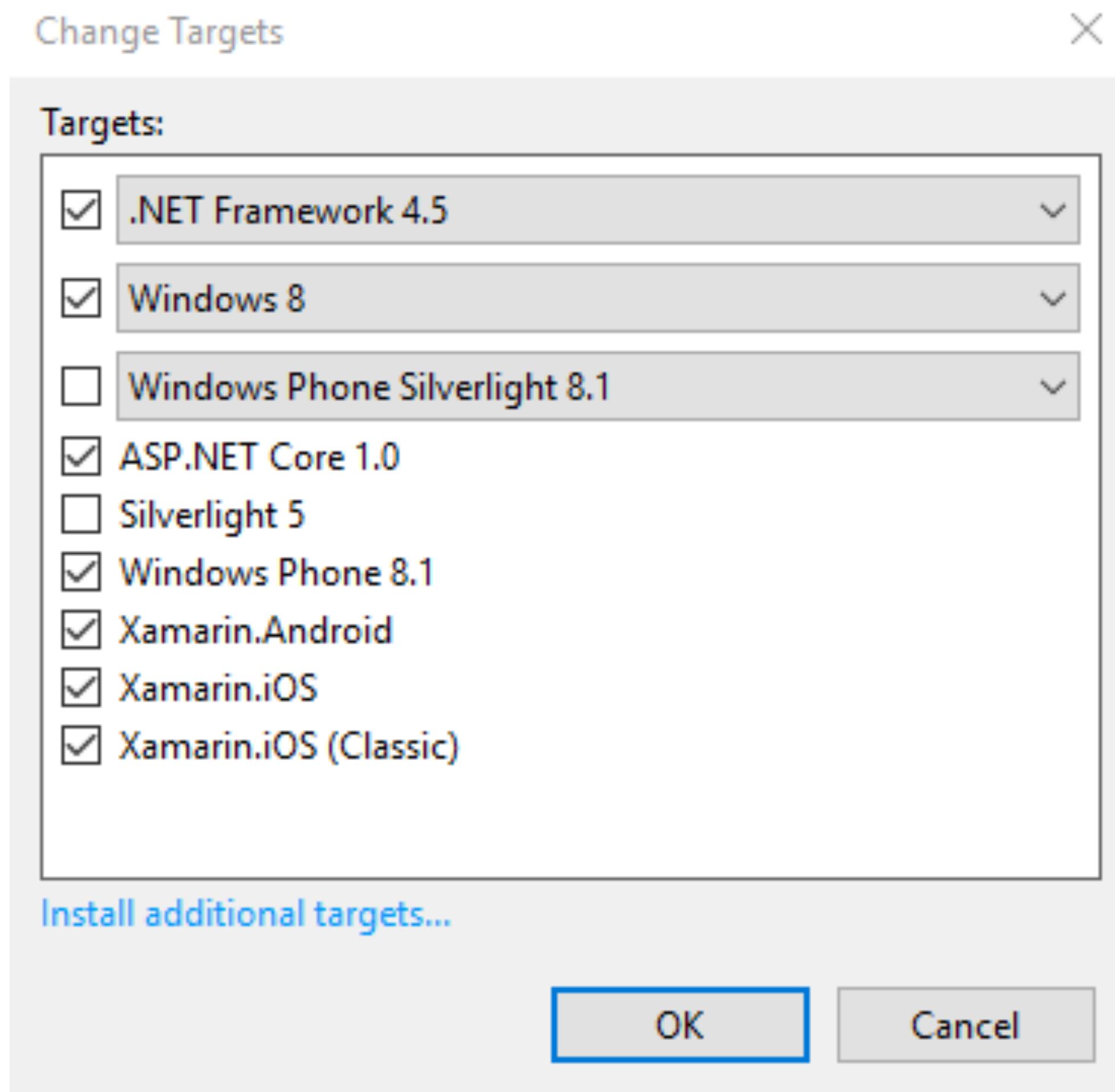
Shared Codebase

Core

100% API access

Tests and performance

Portable class libraries



One Assembly for Multiple Platforms

Inc. **Xamarin.iOS** and **Xamarin.Android**

Portable class libraries

Profile 7

.NET 4.5
Windows Store 8+
Xamarin.iOS
Xamarin.Android

1.90 MB

Profile 78

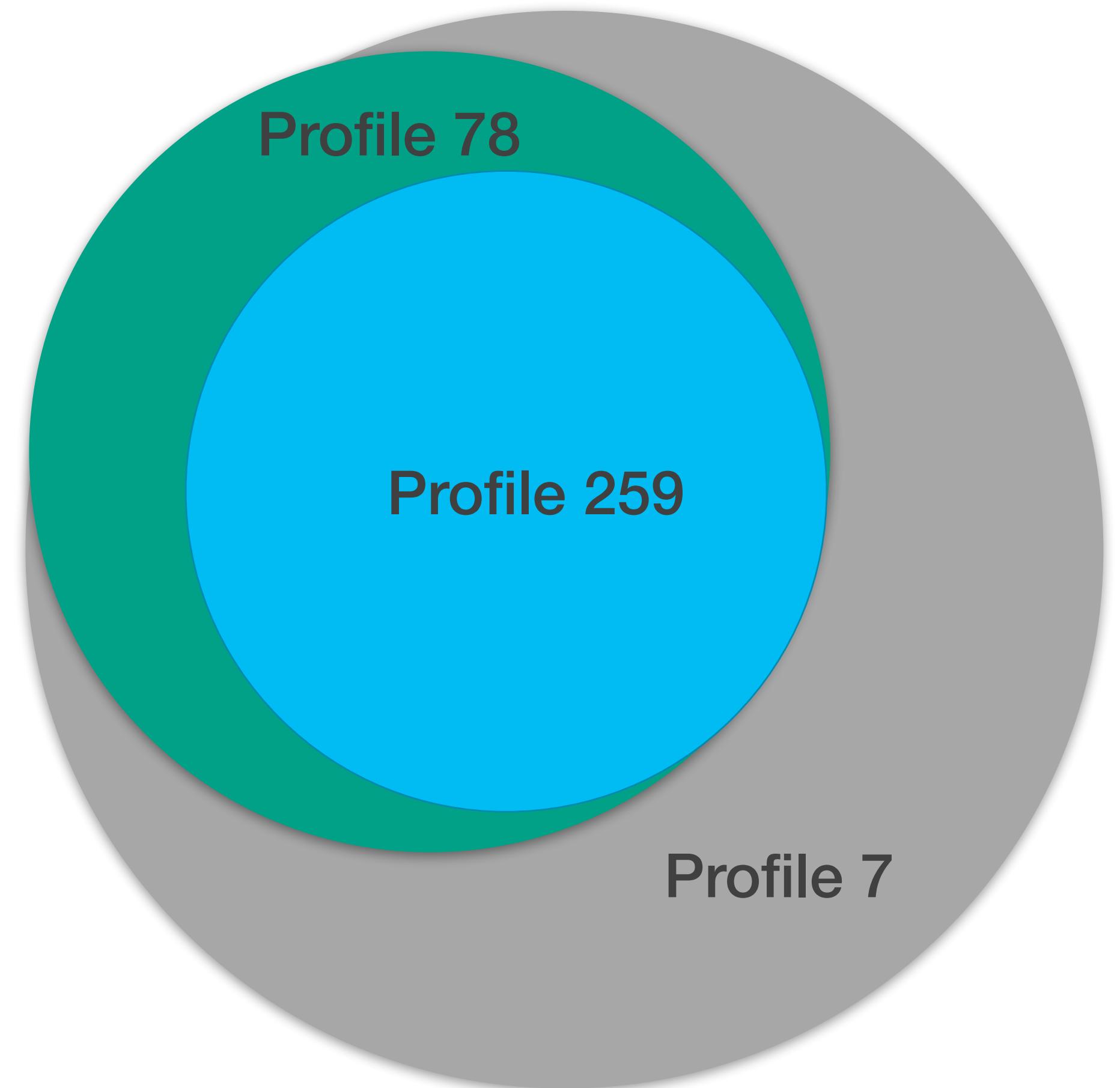
.NET 4.5
Windows Phone
Silverlight 8+
Windows Store 8+
Xamarin.iOS
Xamarin.Android

1.46 MB

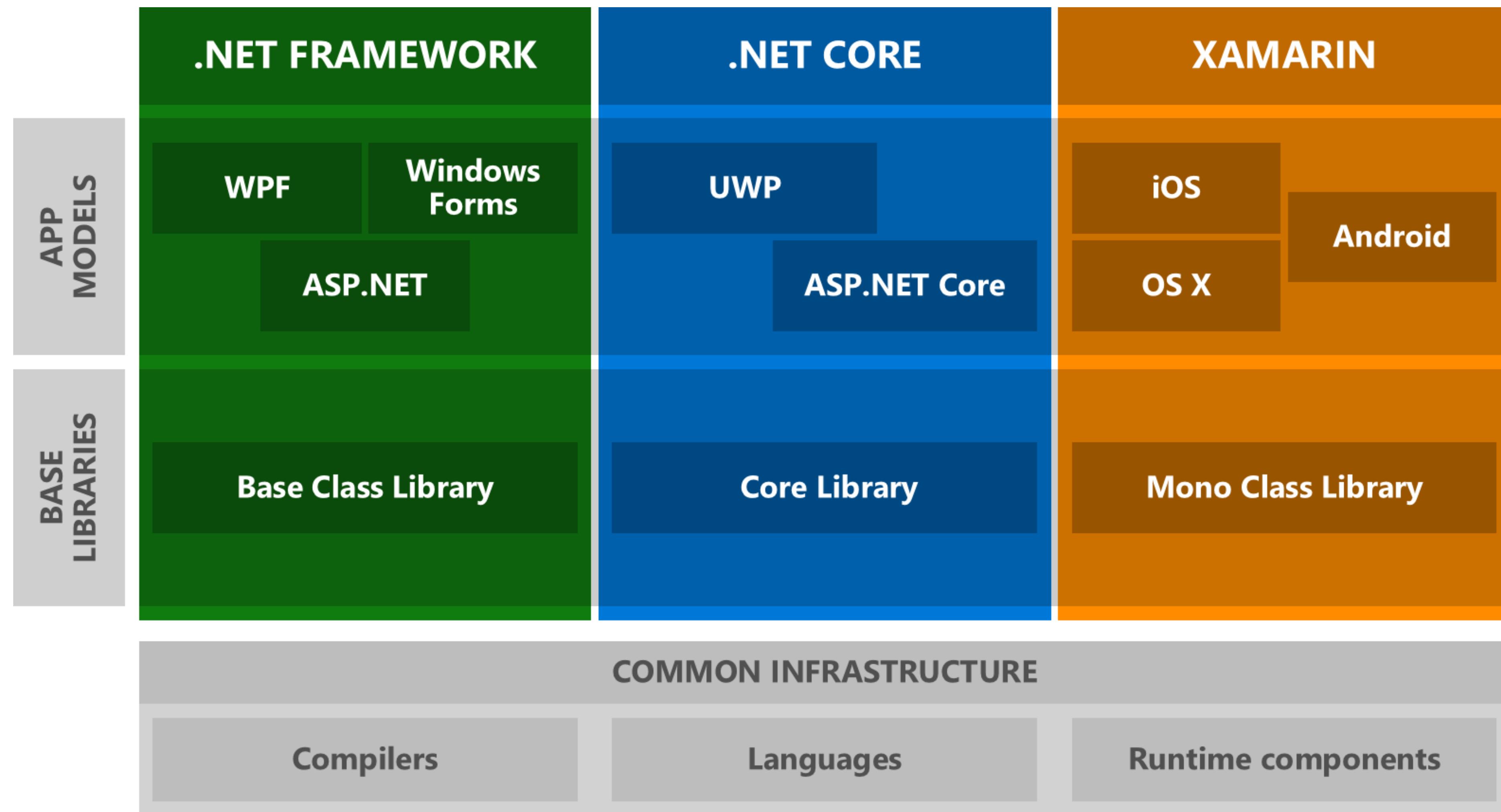
Profile 259

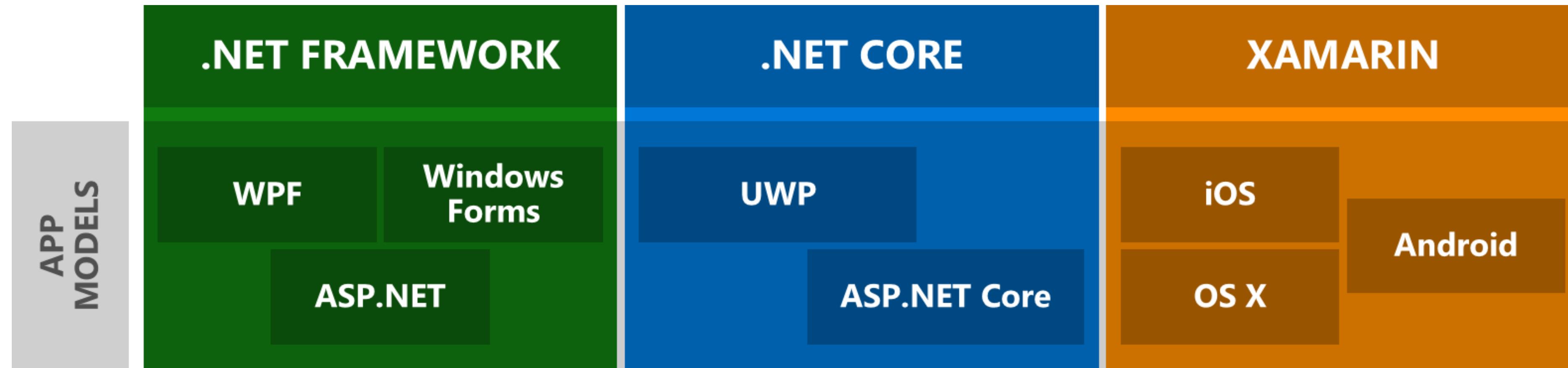
.NET 4.5
Windows Phone 8.1
Windows Phone Silverlight 8+
Windows Store 8+
Xamarin.iOS
Xamarin.Android

1.32 MB



Welcome to .NET CORE





.NET STANDARD LIBRARY

One library to rule them all

COMMON INFRASTRUCTURE

Compilers

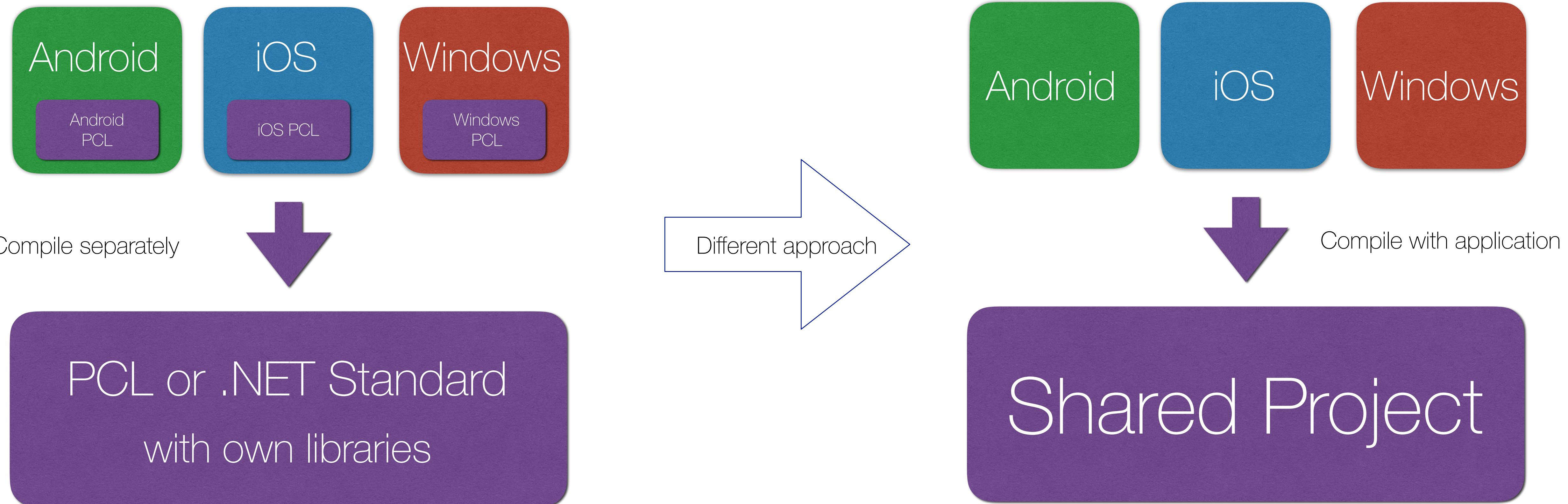
Languages

Runtime components

.NET Standard Platforms

PLATFORM NAME	ALIAS	1.0	1.1	1.2	1.3	1.4	1.5	1.6
.NET Standard	netstandard	1.0	1.1	1.2	1.3	1.4	1.5	1.6
.NET Core	netcoreapp	→	→	→	→	→	→	1.0
.NET Framework	net	→	4.5	4.5.1	4.6	4.6.1	4.6.2	4.6.3
Mono/Xamarin Platforms		→	→	→	→	→	→	*
Universal Windows Platform	uap	→	→	→	→	→	10.0	
Windows	win	→	8.0	8.1				
Windows Phone	wpa	→	→	8.1				
Windows Phone Silverlight	wp	8.0						

Shared project



Xamarin Forms

All Platforms View

Shared Codebase

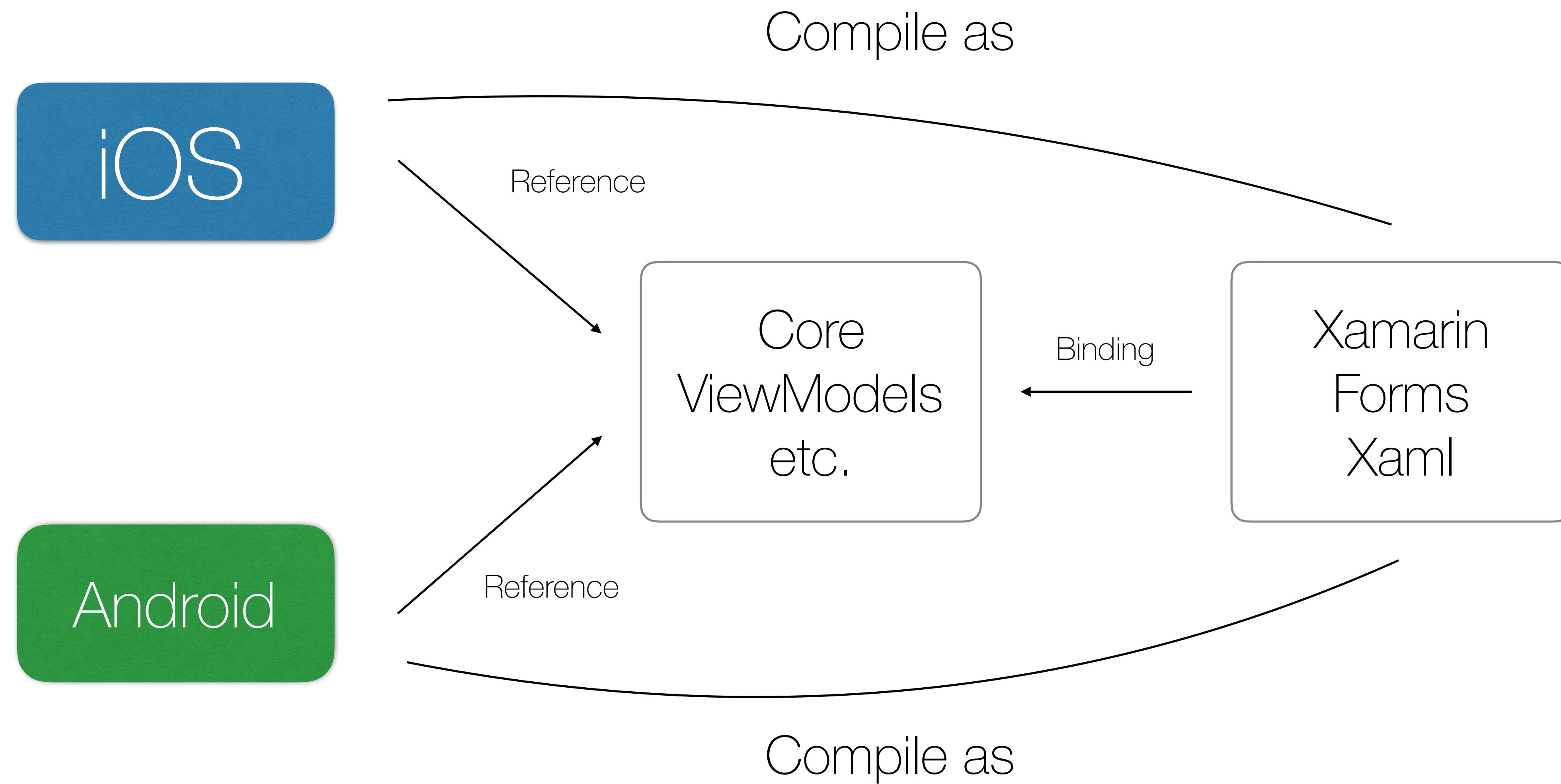
Tests and performance

Core

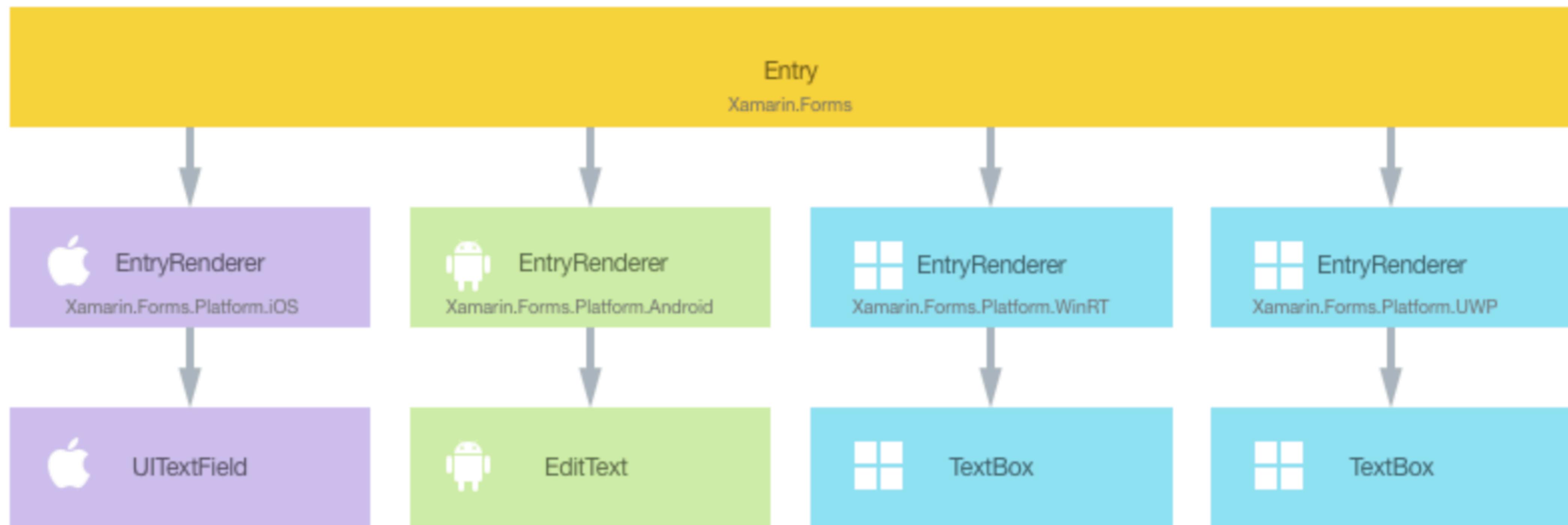
100% API access

Other things

- Dependency service
- Data Pages
- Themes

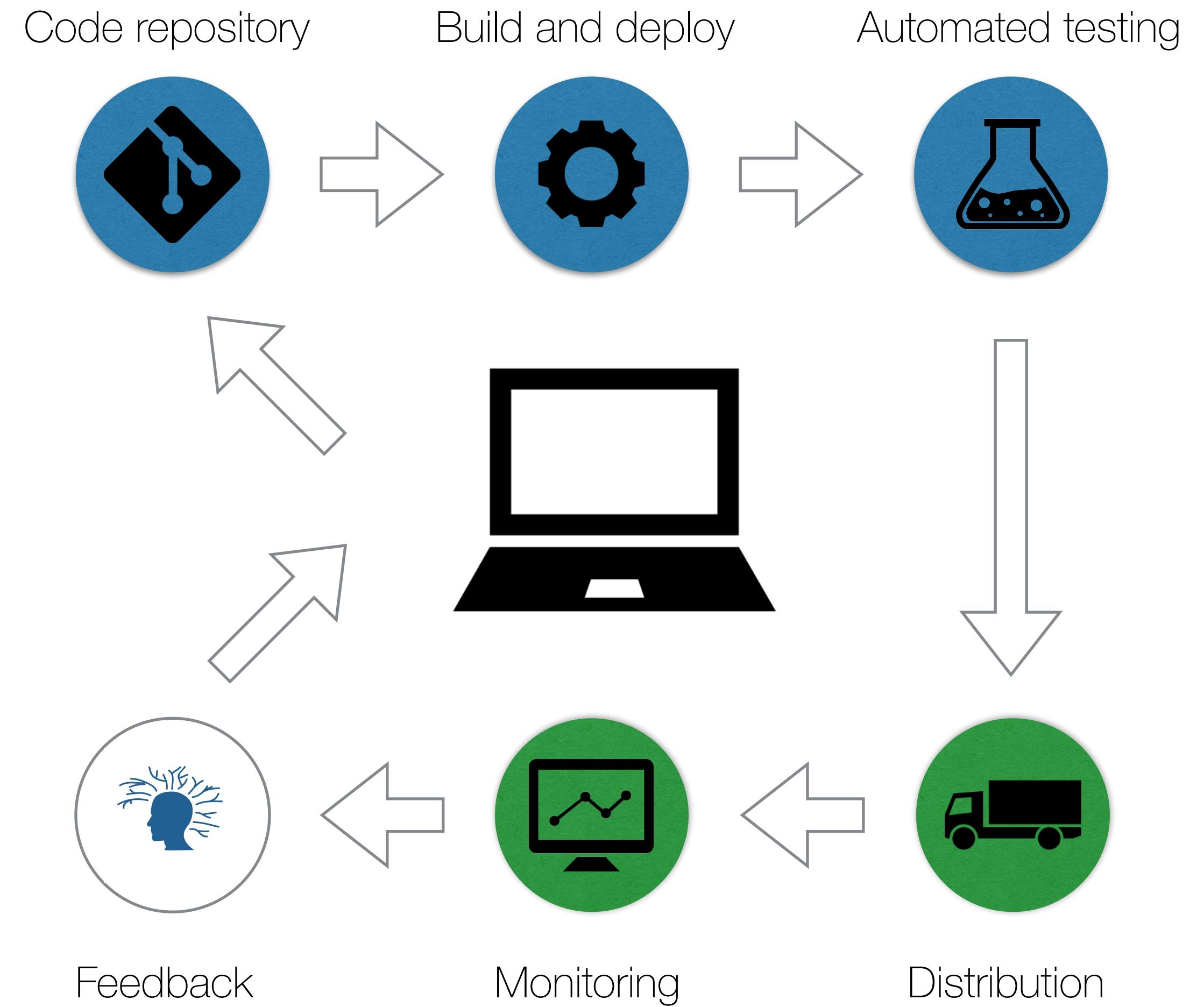


Renderers



Part of Mobile Devops

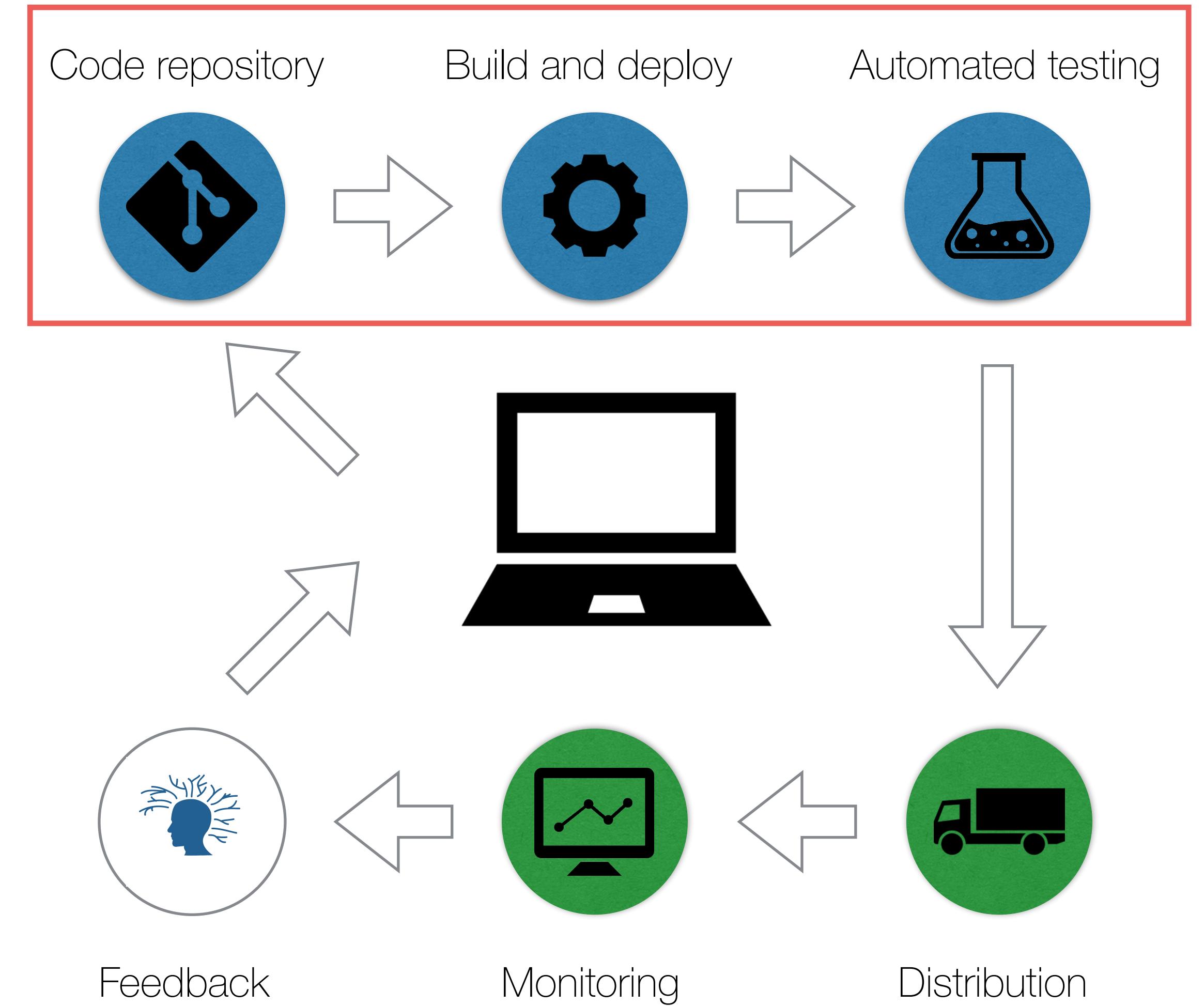
- CI (Continuous integration)
- CD (Continuous delivery)
- CM (Continuous monitoring)

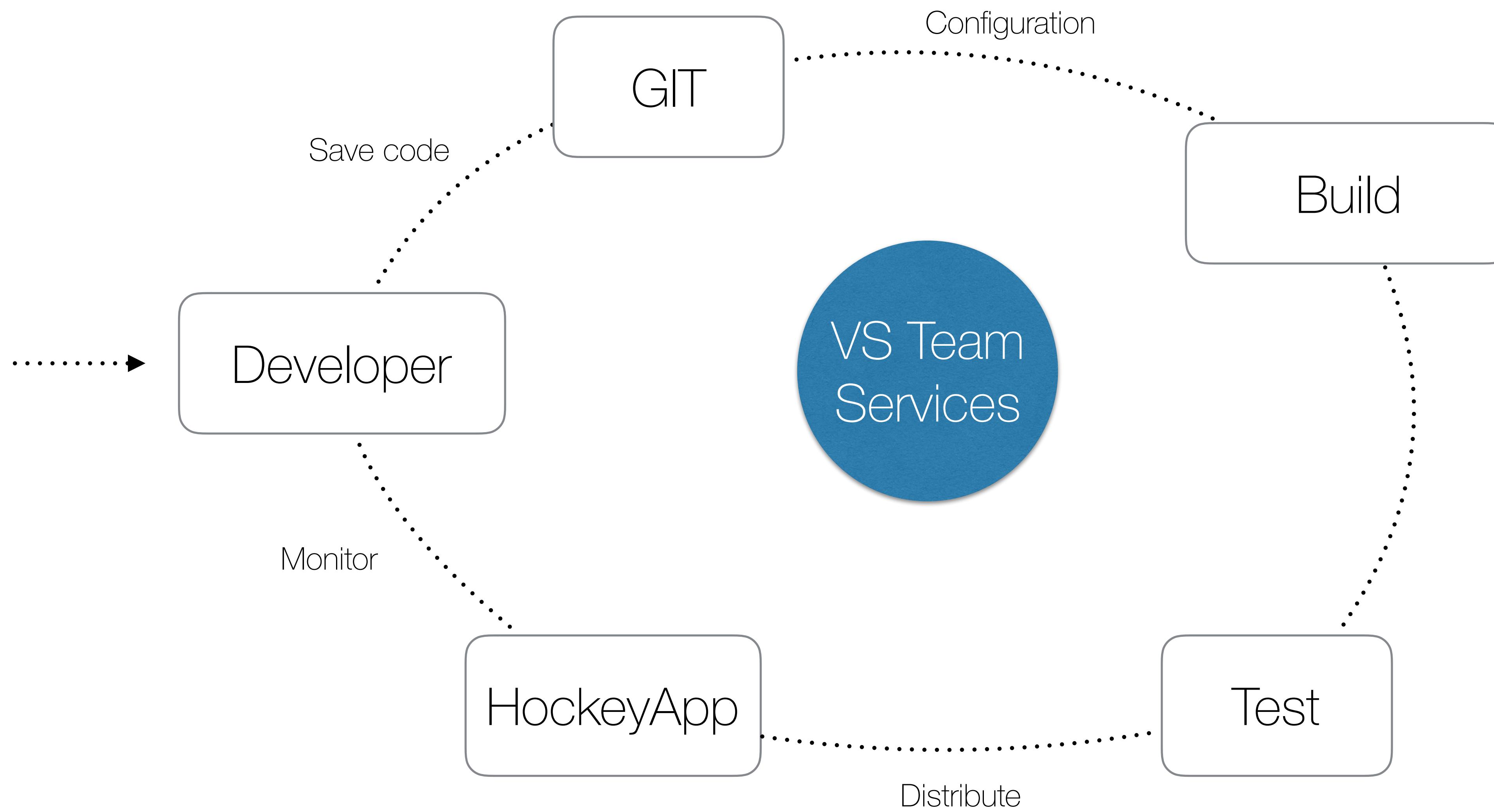


Continuous integration

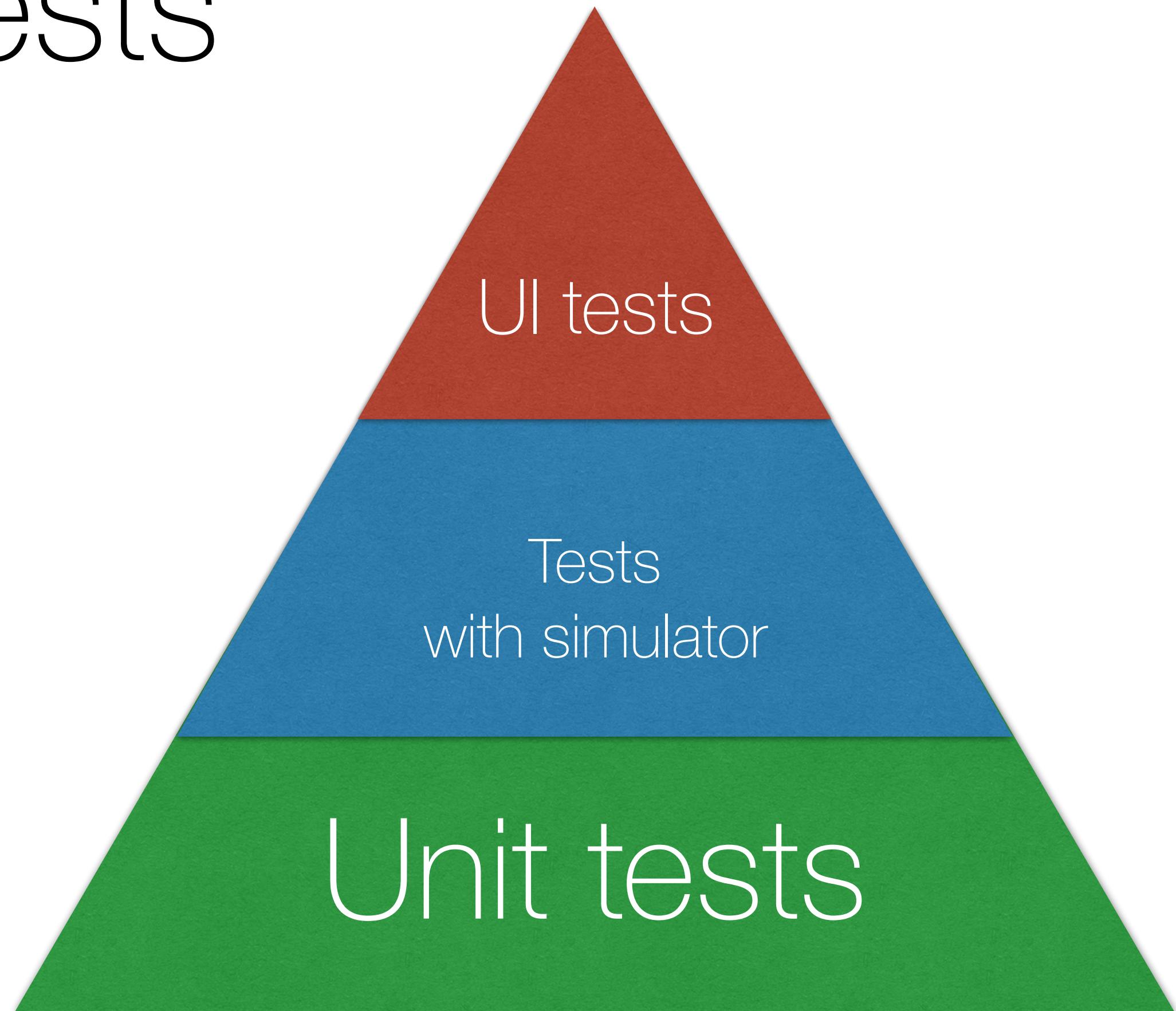
- Automated build server
- Automated tests
- Using test cloud (UI tests)

Continuous integration

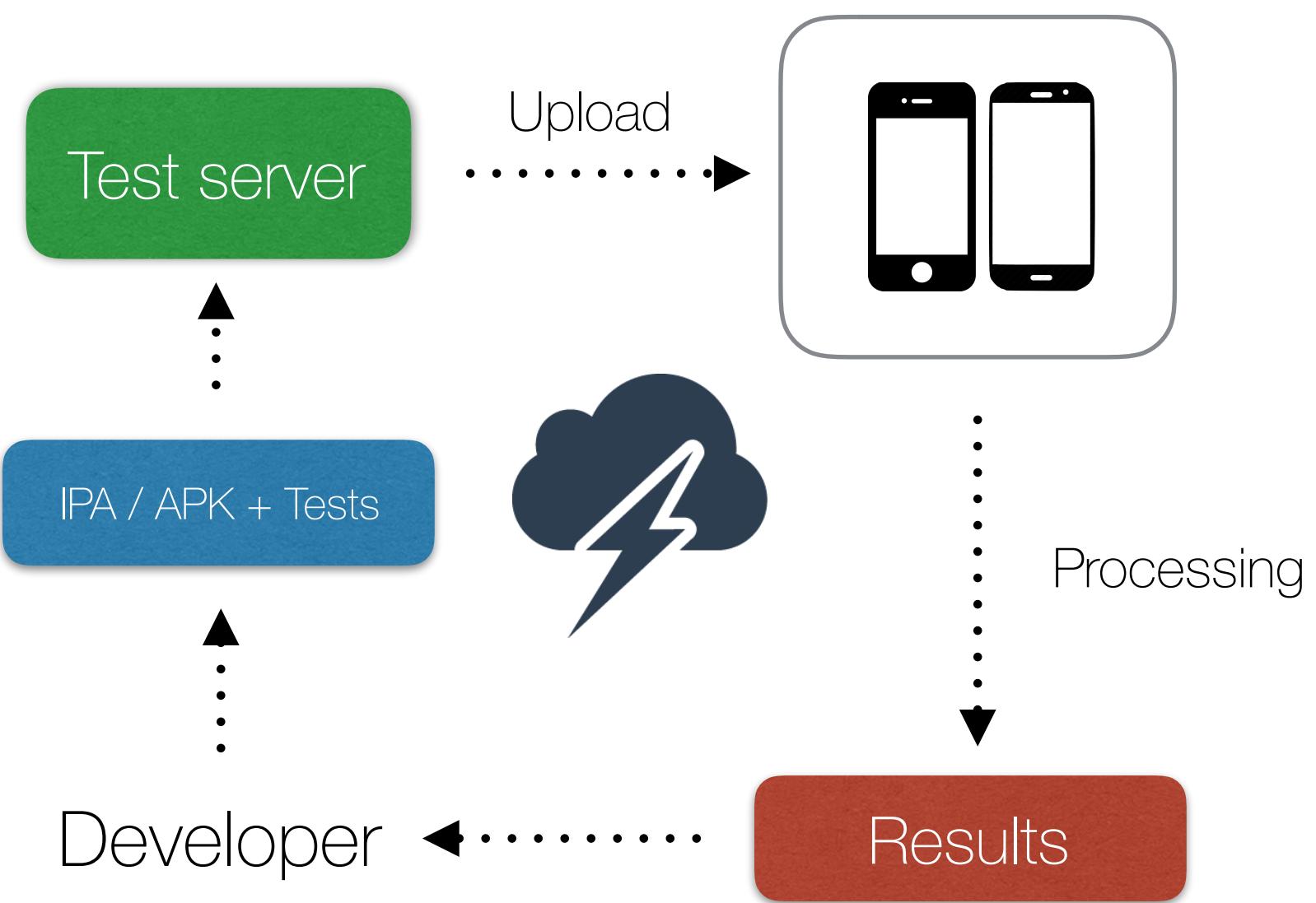




Tests

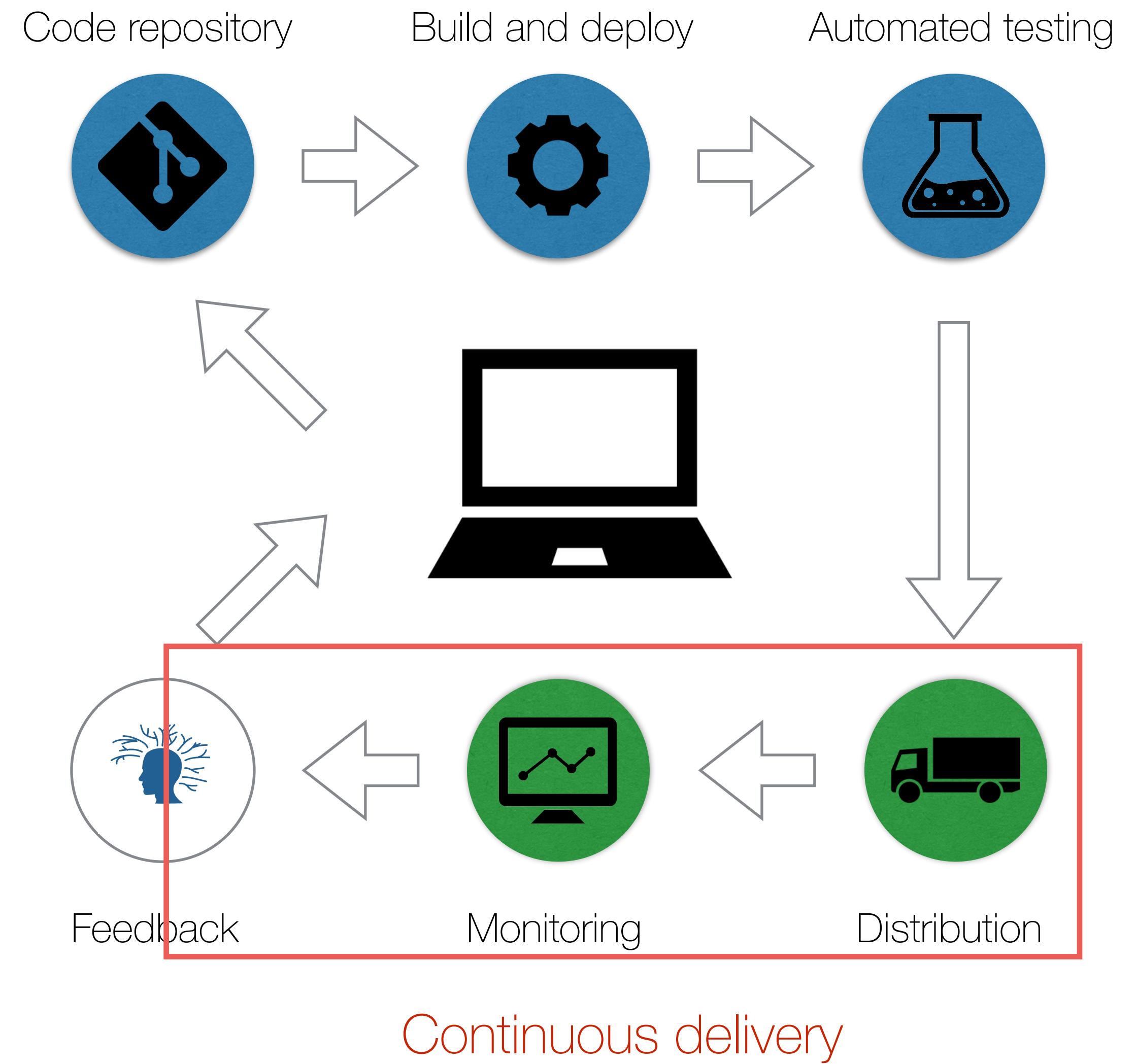


Xamarin Test Cloud

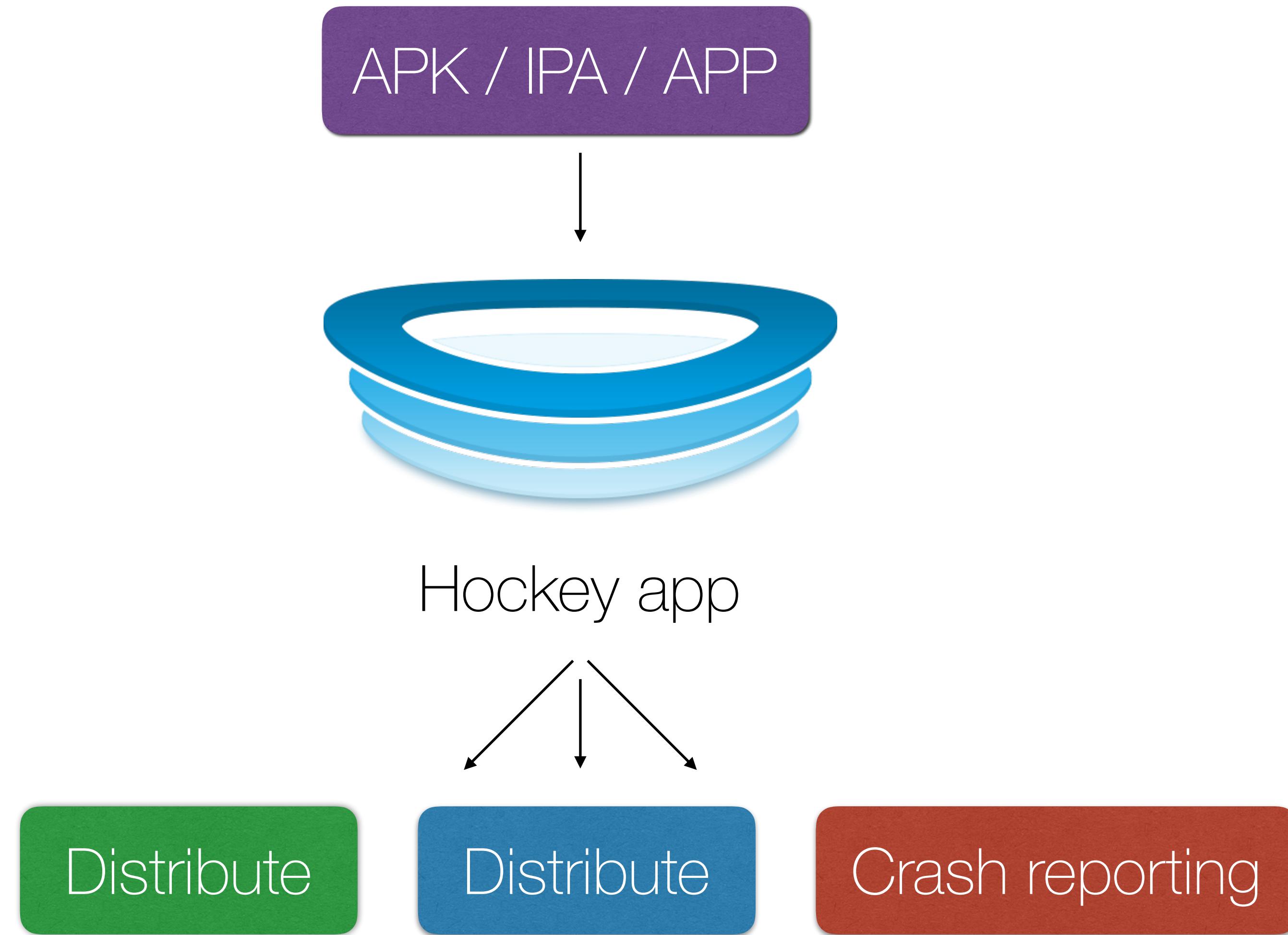


Continuous delivery

- Beta program with feedback
- Automatic deployment
- Monitor crash report

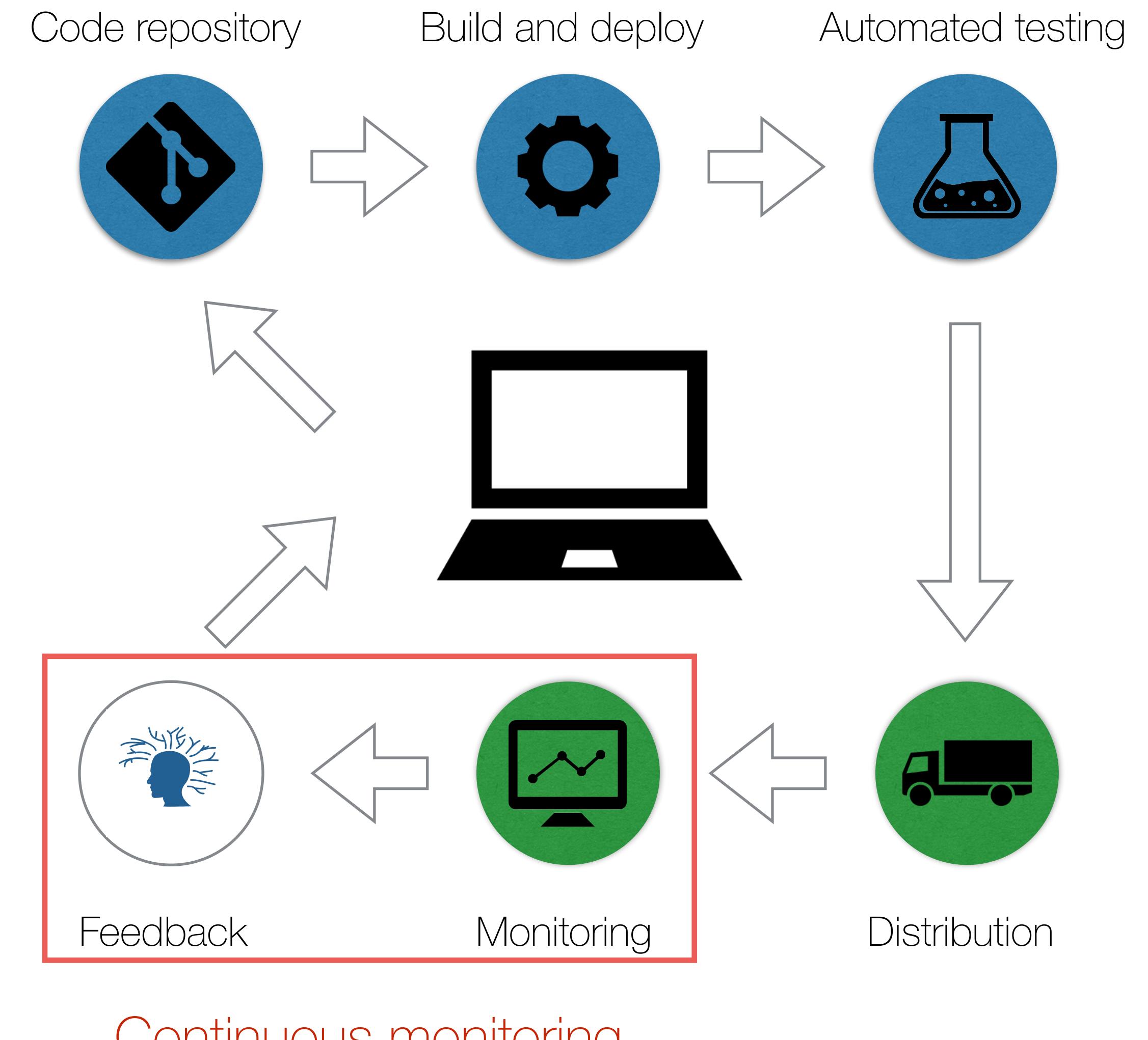


HockeyApp



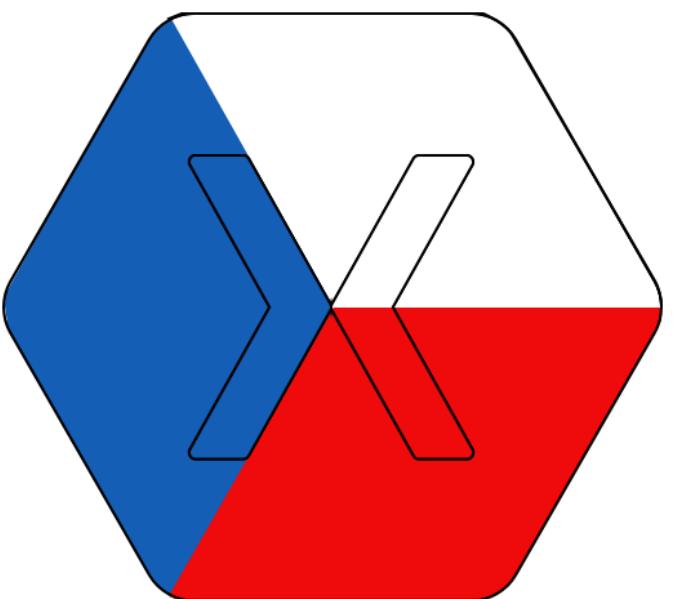
Continuous monitoring

- User and app monitoring
- Custom Events in HockeyApp





Prague DevOps Meetup



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Thanks for watching

www.eman.cz