



Introducción al desarrollo de apps con Xamarin

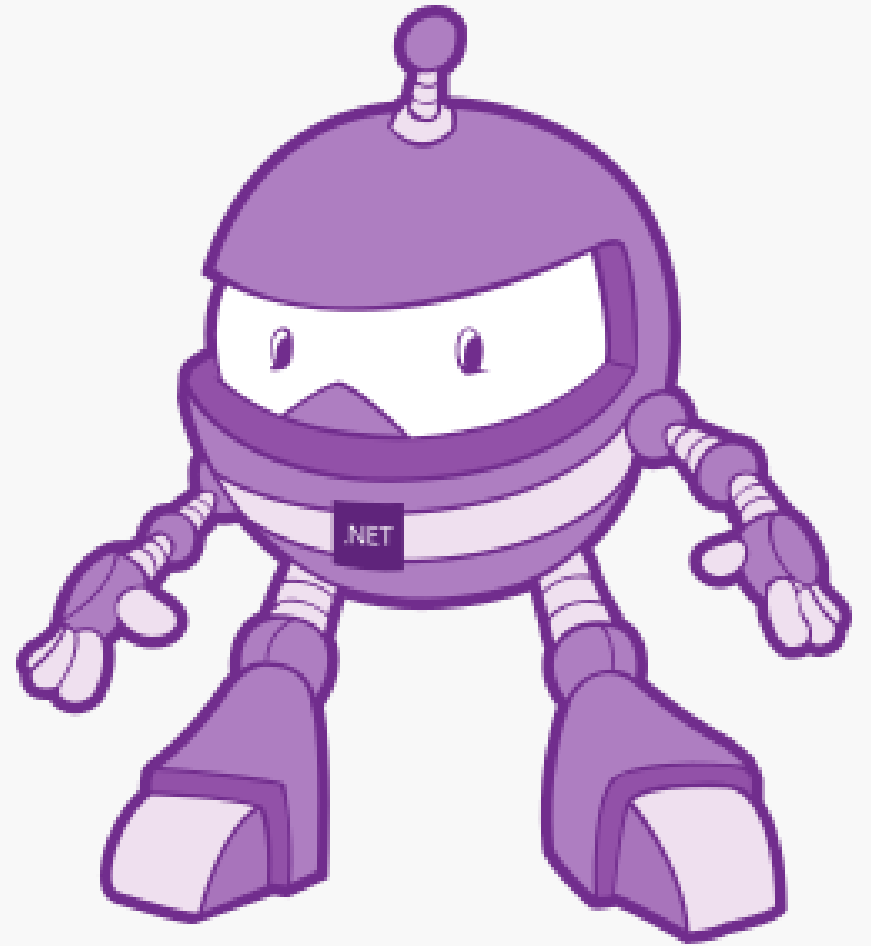
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gabo.dev@outlook.com

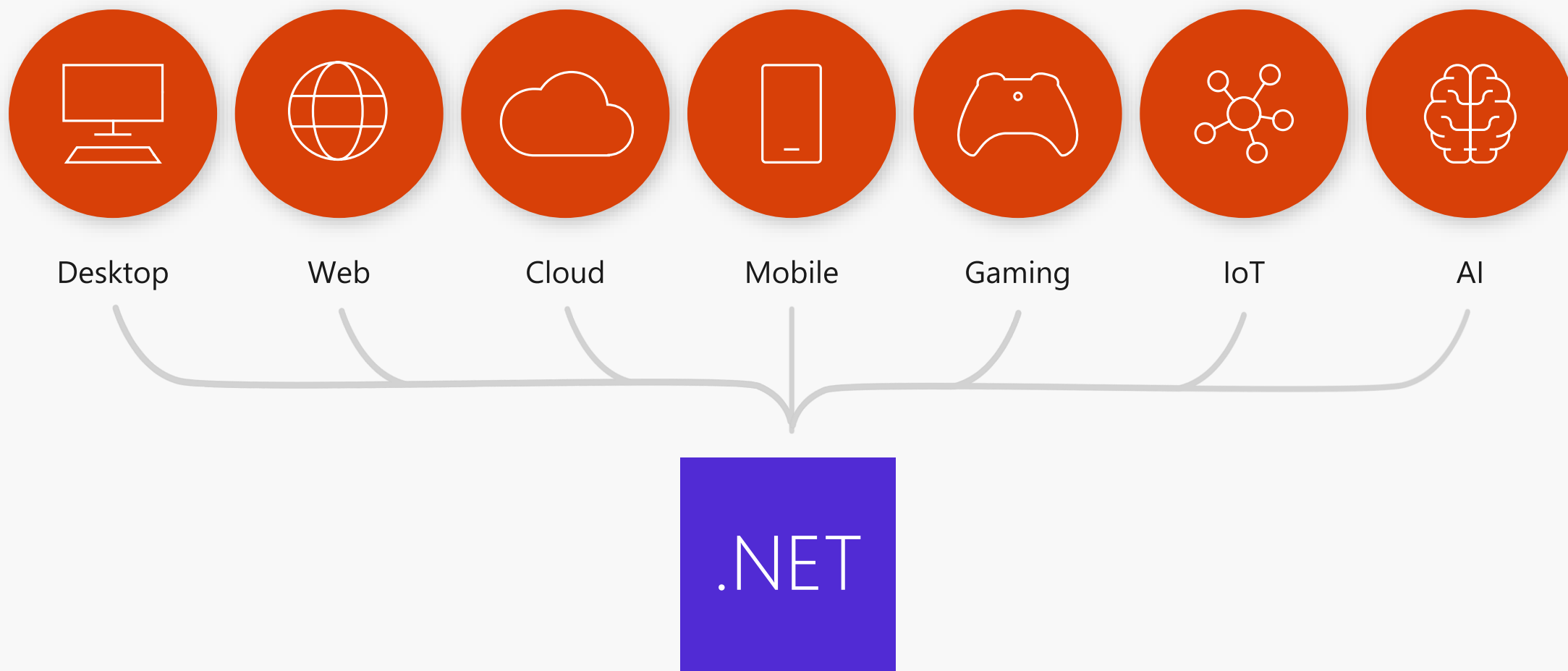


Agenda

- Que es Xamarin?
- .NET
- Integraciones
- Xamarin.Forms Overview
- Visual Studio



Con .NET desarrolla cualquier cosa





¿Que es Xamarin?



Una plataforma de apps **open source**
de Microsoft para
crear **modernas & eficientes**
Apps para iOS, Android, macOS,
watchOS, & tvOS con .NET.



¿Por que Xamarin?



El software impulsa las cosas que hacemos todos los días.

Nuevos desafíos



Xamarin

Amado por los desarrolladores,
confiable y seguro para
las empresas



BANG & OLUFSEN





Desarrollo de apps con Xamarin





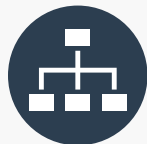
Entorno de productividad



Máximo rehúso de código

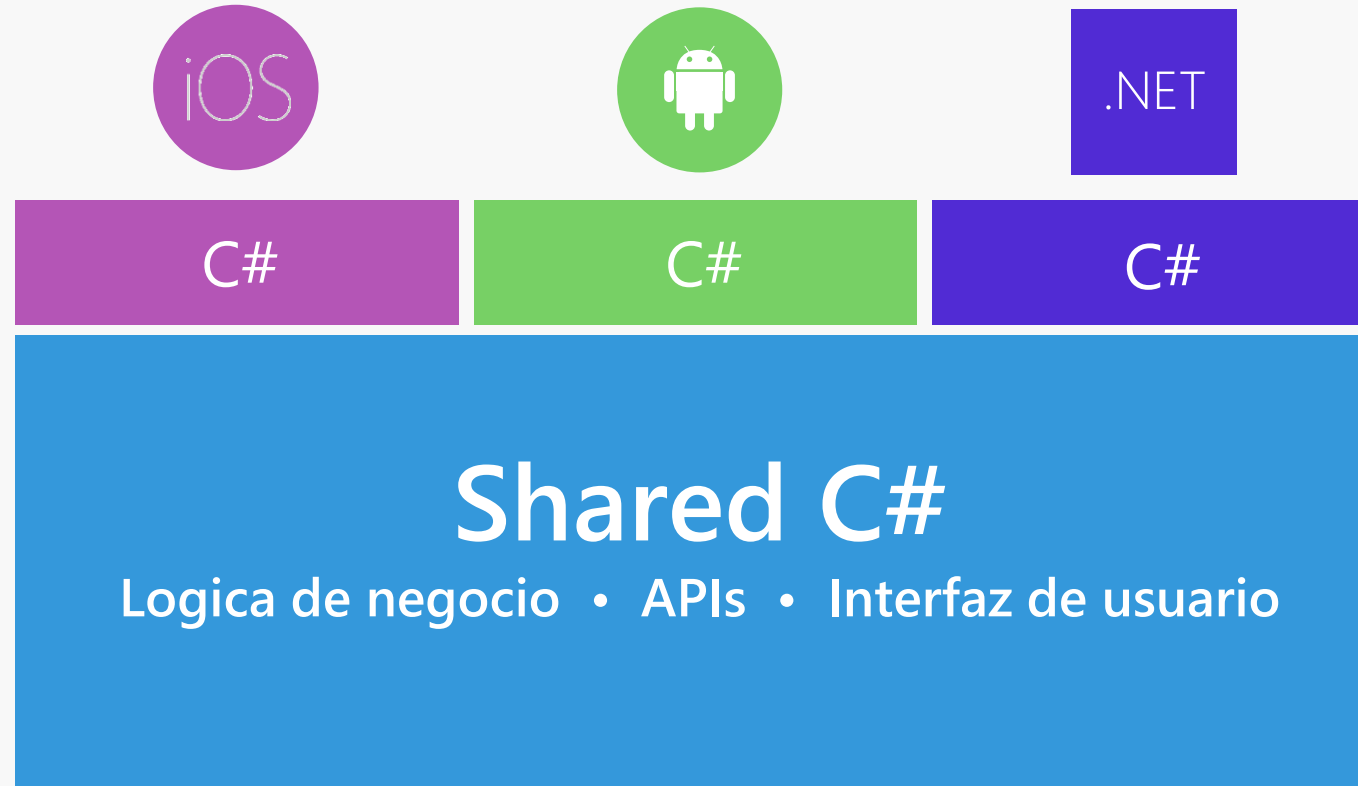


Rendimiento nativo e integración



Ecosistema en expansión

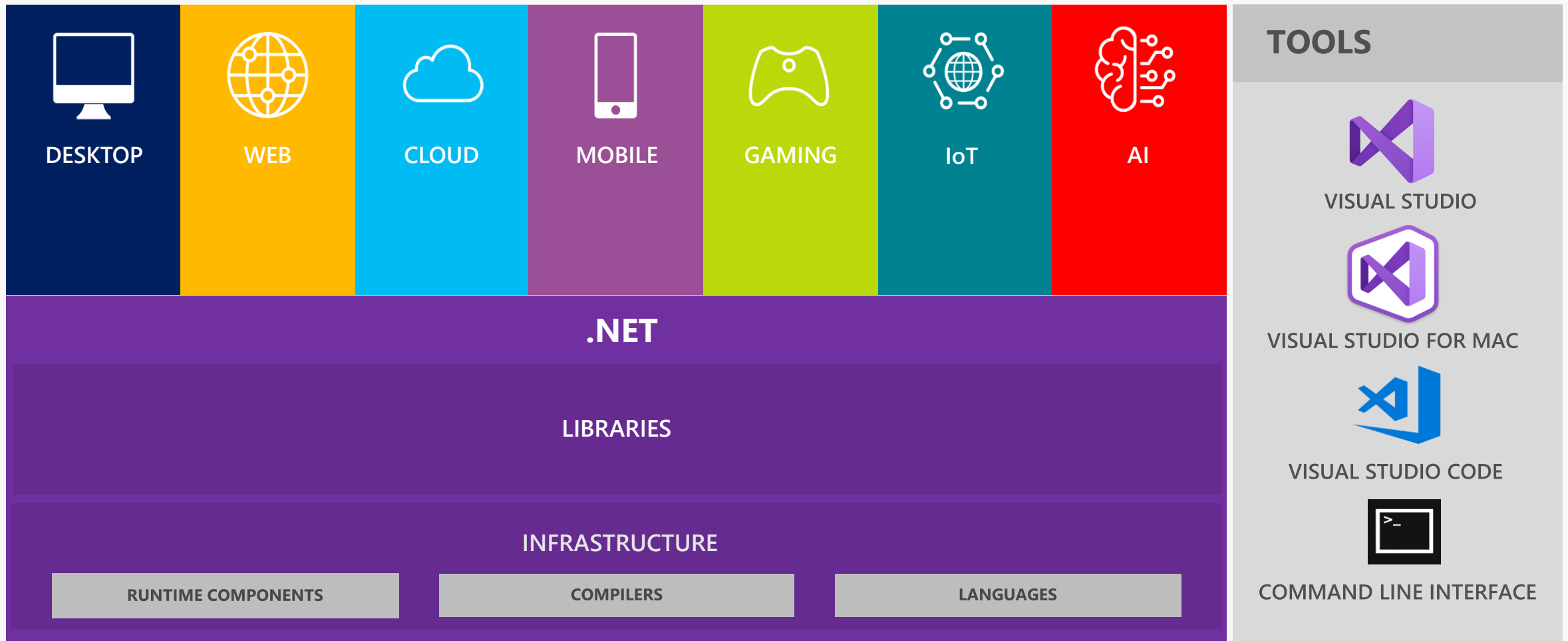
Arquitectura Xamarin App



Shared C# codebase • 100% native API access • Alto rendimiento



.NET – Una plataforma unificada



Ecosistema .NET

+1M Nuevos
Desarrolladores .NET

>750K
.NET Core Desarrolladores

Top 30
Mejor desempeño y velocidad
en GitHub
.NET Core

Top 10
Lenguajes = C#



8x
Más veloz que Node.js



ASP.NET Core

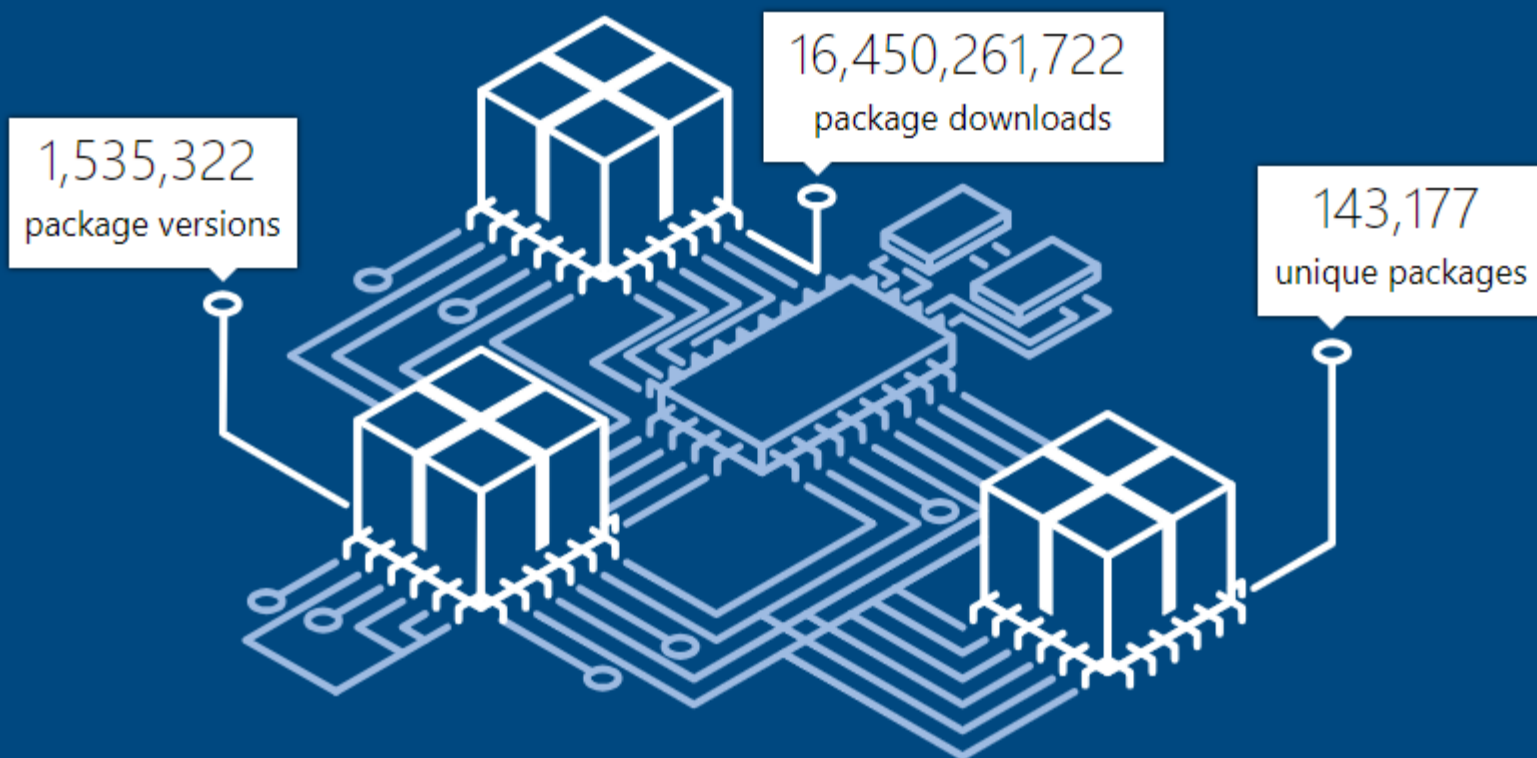
>550 repositorios
>61K respuesta de la comunidad
>12K contribuciones
>87% por fuera de Microsoft

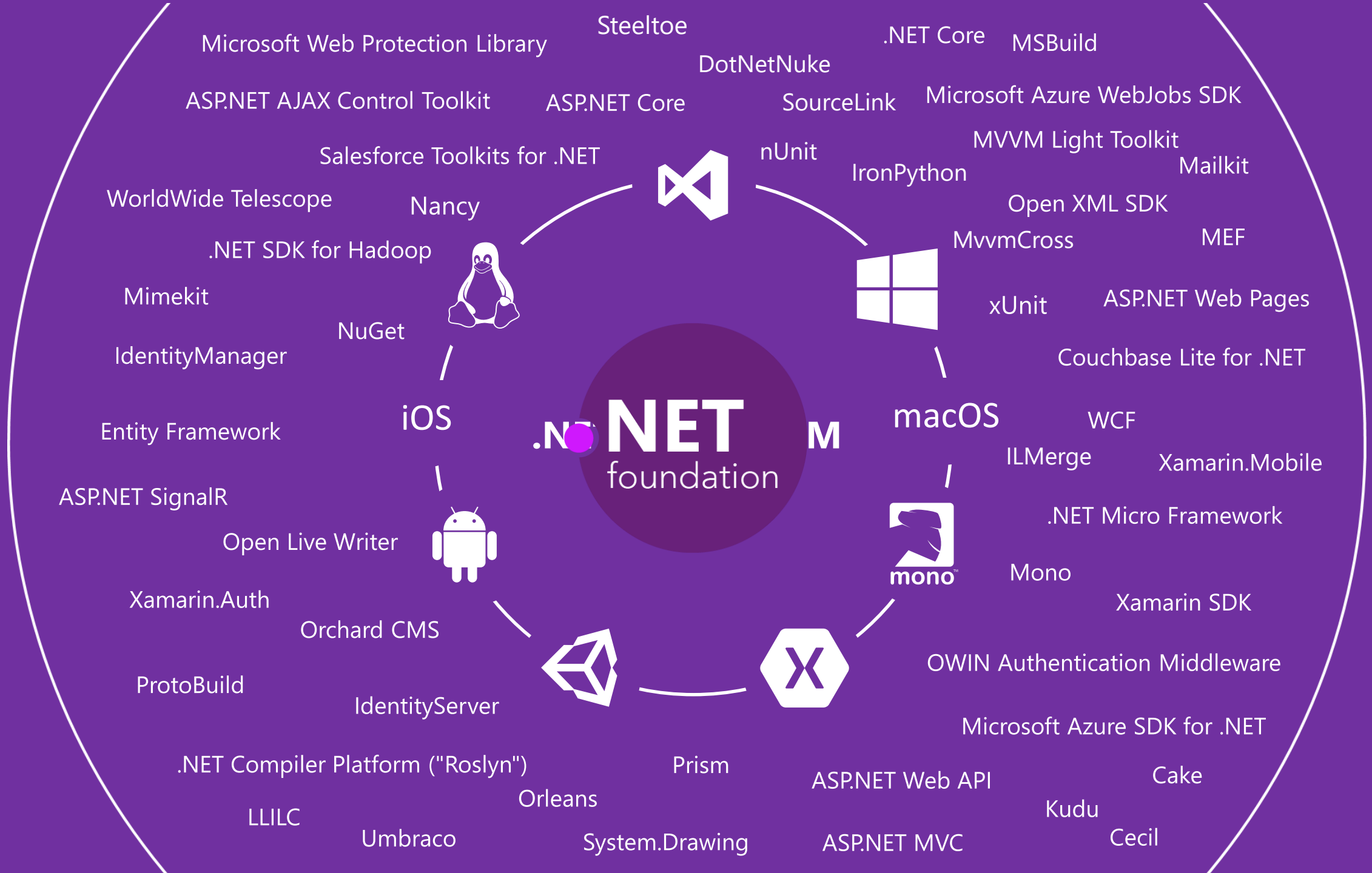


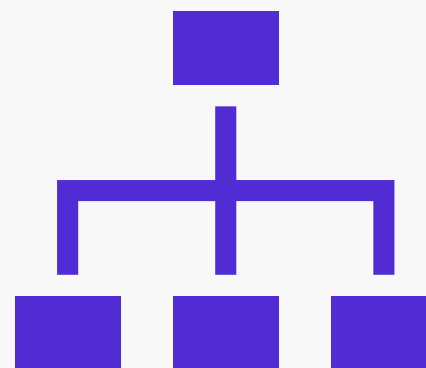
.NET Foundation

Create .NET apps faster with NuGet

Search for packages...

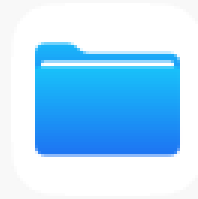




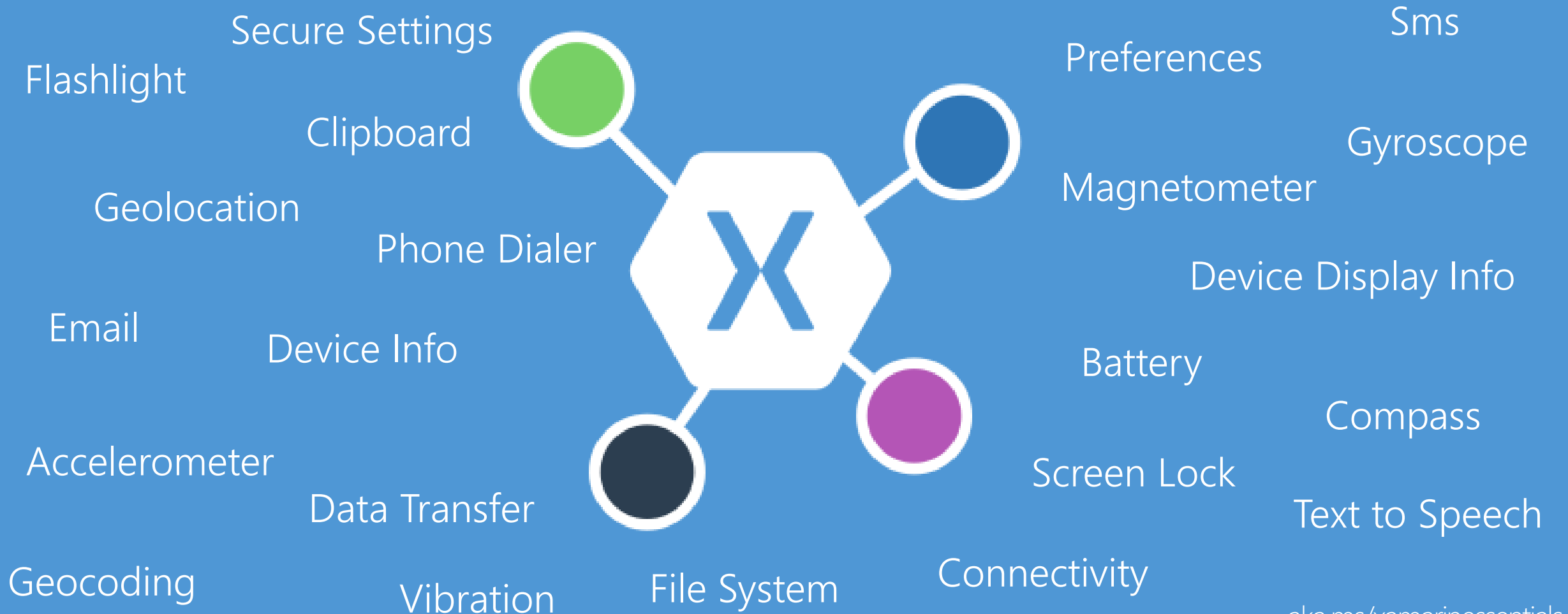


Integrations

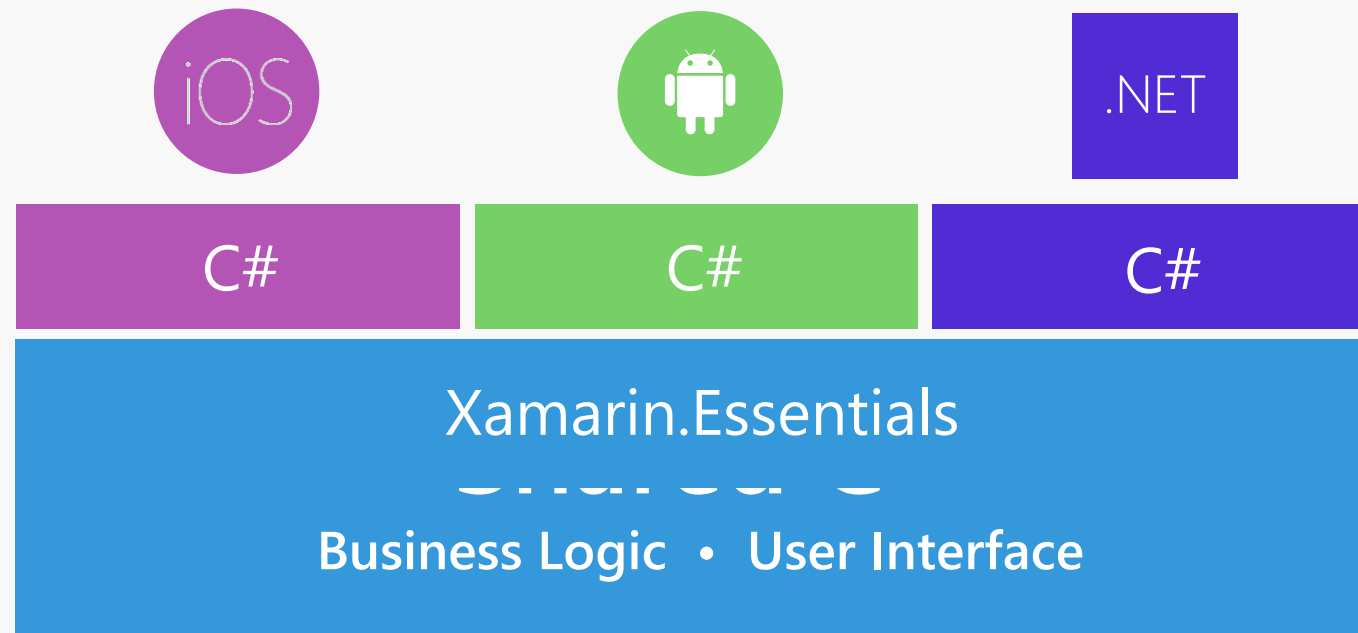
Native API Access



Xamarin.Essentials

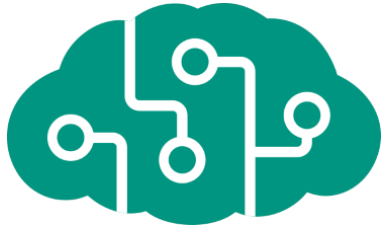


Xamarin.Essentials: Cross-Platform Native APIs





Librerías y herramientas



Cognitive
Services



SQLite



Telerik®
by Progress



Azure Active
Directory B2C



Zxing
Barcode
Scanning



Akavache



Gorilla
Player

RAYGUN



Zeplin

Syncfusion®



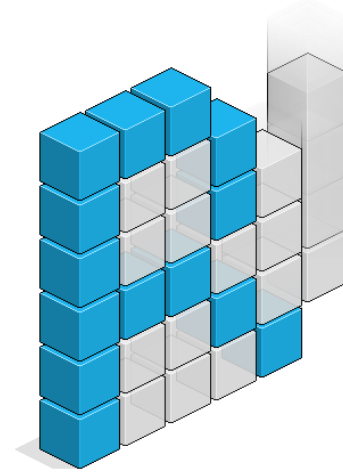
Frameworks



MVVMCross



Uno



ReactiveUI



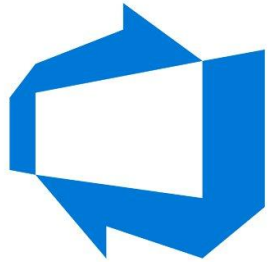
Reactive Extensions



Prism



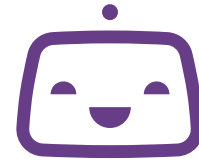
Integración continua



Azure
Devops



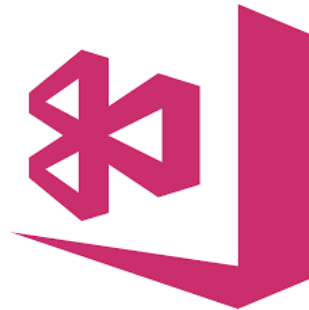
Team
City



bitrise



Jenkins



App
Center



fastlane



Cloud



Microsoft Azure



Firebase



IBM
MobileFirst



Google
Cloud
Platform



Realm



Microsoft Azure

Xamarin.Forms Overview

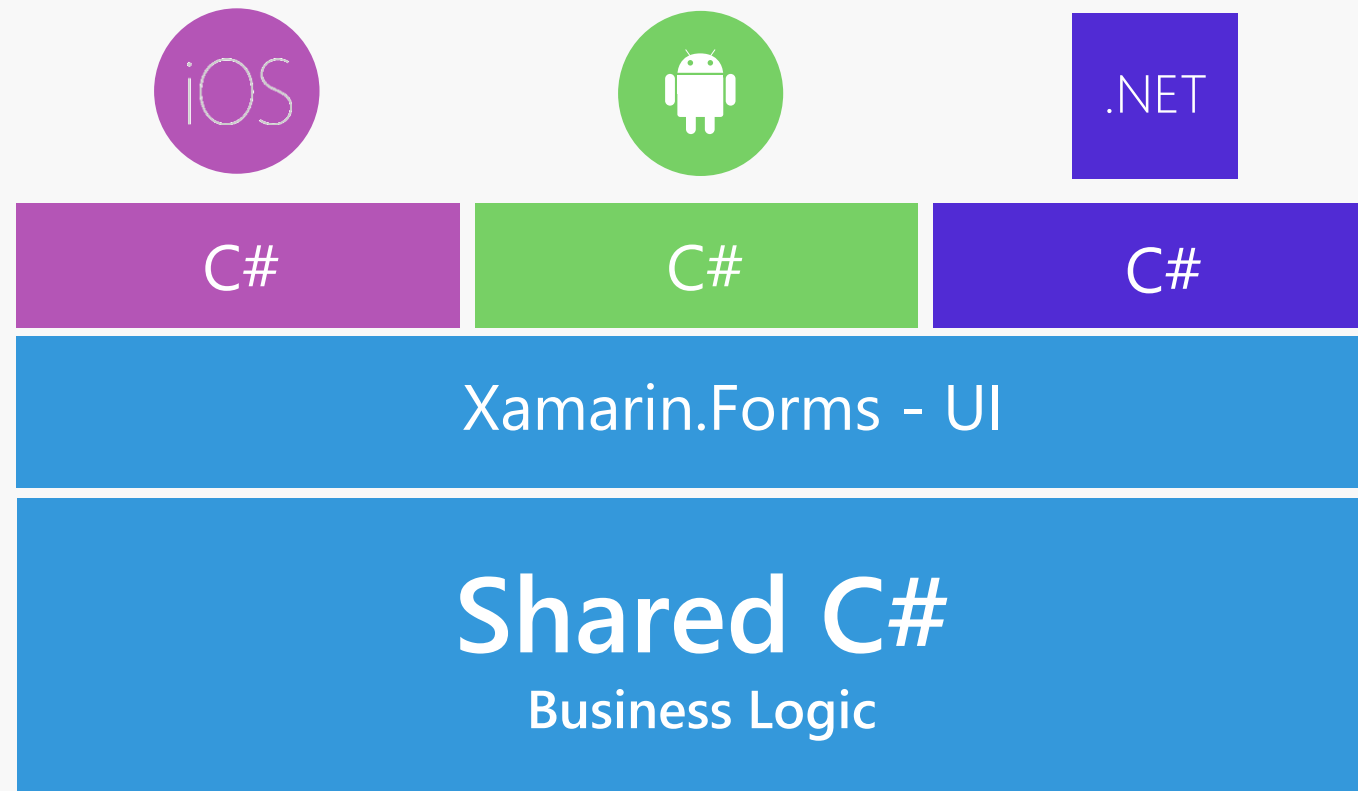




¿Que es Xamarin.Forms?



Xamarin.Forms: Cross-Platform Native UI

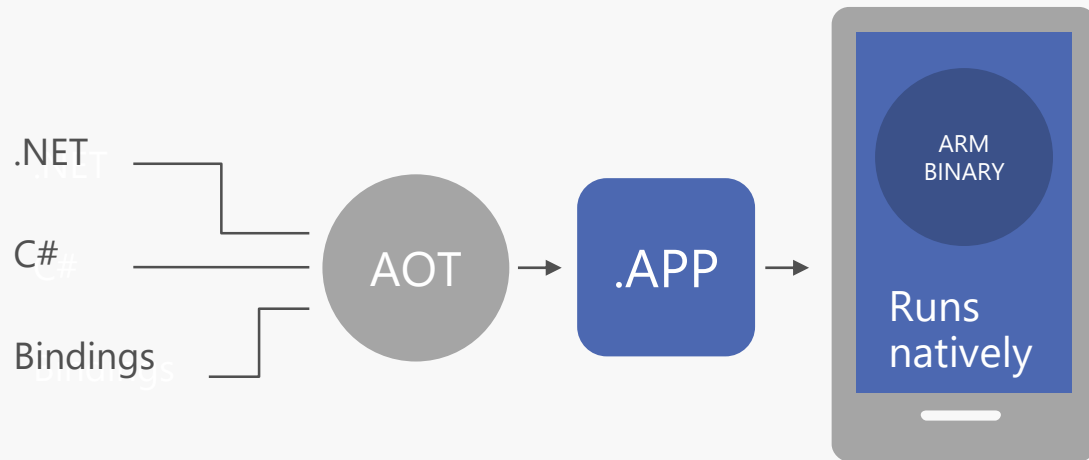




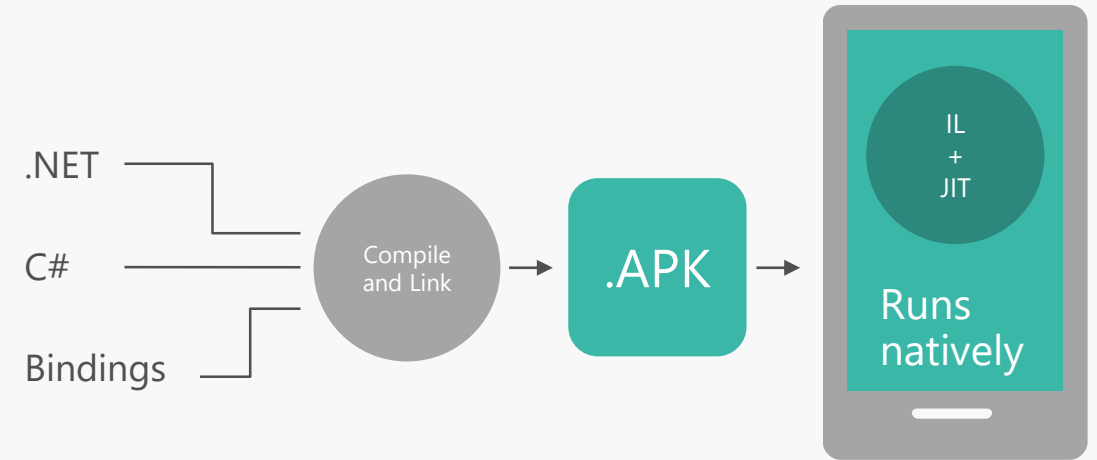
Code Sharing

En promedio una app Xamarin comparte
80% de su código
entre apps.

Native performance



Xamarin.iOS realiza una compilación completa de Ahead Of Time (AOT) para producir un binario ARM para la App Store de Apple.



Xamarin.Android aprovecha la compilación Just In Time (JIT) en el dispositivo Android.

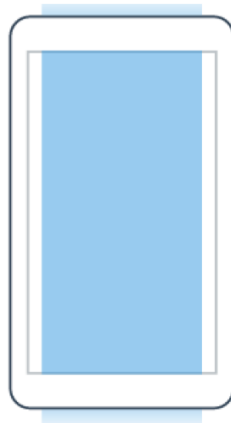
Pages & Layouts



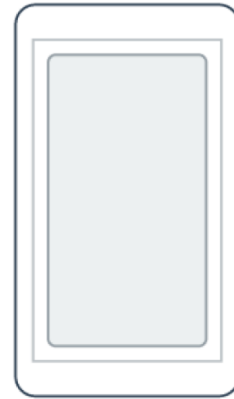
ContentPresenter



ContentView



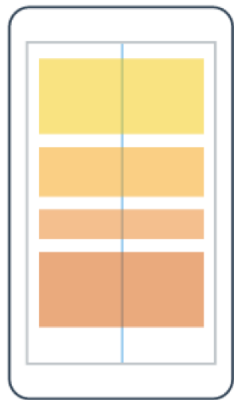
ScrollView



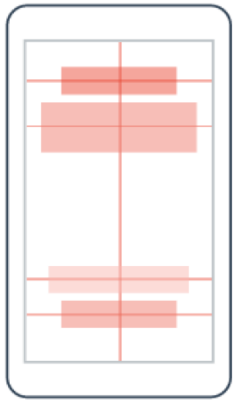
Frame



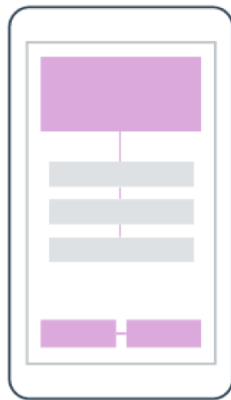
TemplatedView



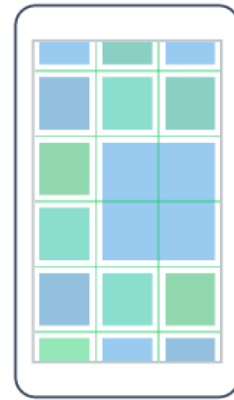
StackLayout



AbsoluteLayout



RelativeLayout



Grid



FlexLayout

Controls

ActivityIndicator

BoxView

Button

DatePicker

Editor

Entry

Image

Label

ListView

Map

OpenGLView

Picker

ProgressBar

SearchBar

Slider

Stepper

TableView

TimePicker

WebView

EntryCell

ImageCell

SwitchCell

TextCell

ViewCell

ImageButton

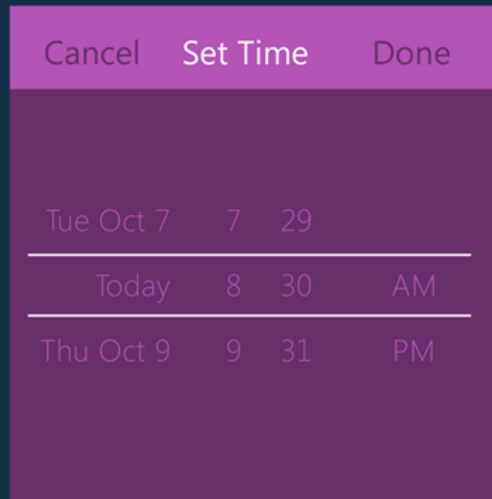
CarouselView

CollectionView

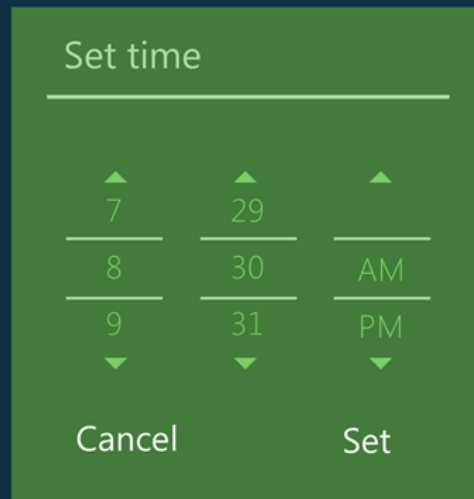
iOS

Android

Time Pickers ●●●

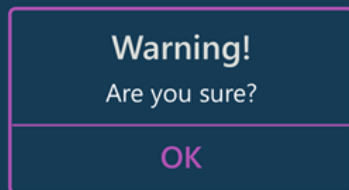


UINavigationController

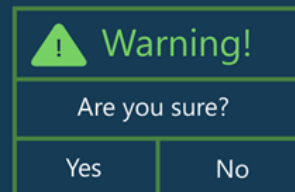


TimePickerDialog

Alerts ●●●



UIAlertView

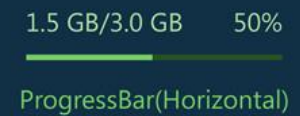


AlertDialog

iOS

Android

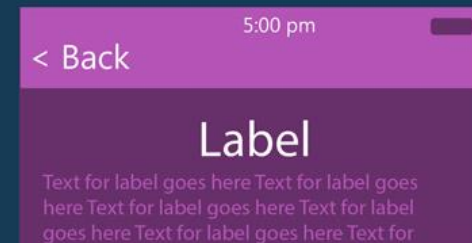
Progress Bars ●●●



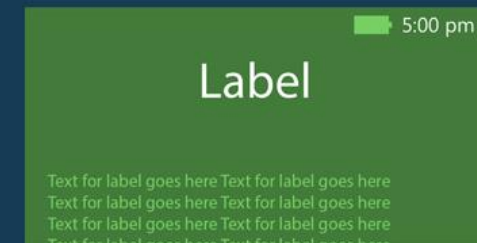
Search Bars ●●●



Labels ●●●

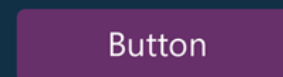


UILabel

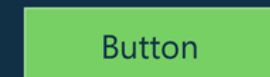


TextView

Buttons ●●●



UIButton



Button

Plataformas específicas

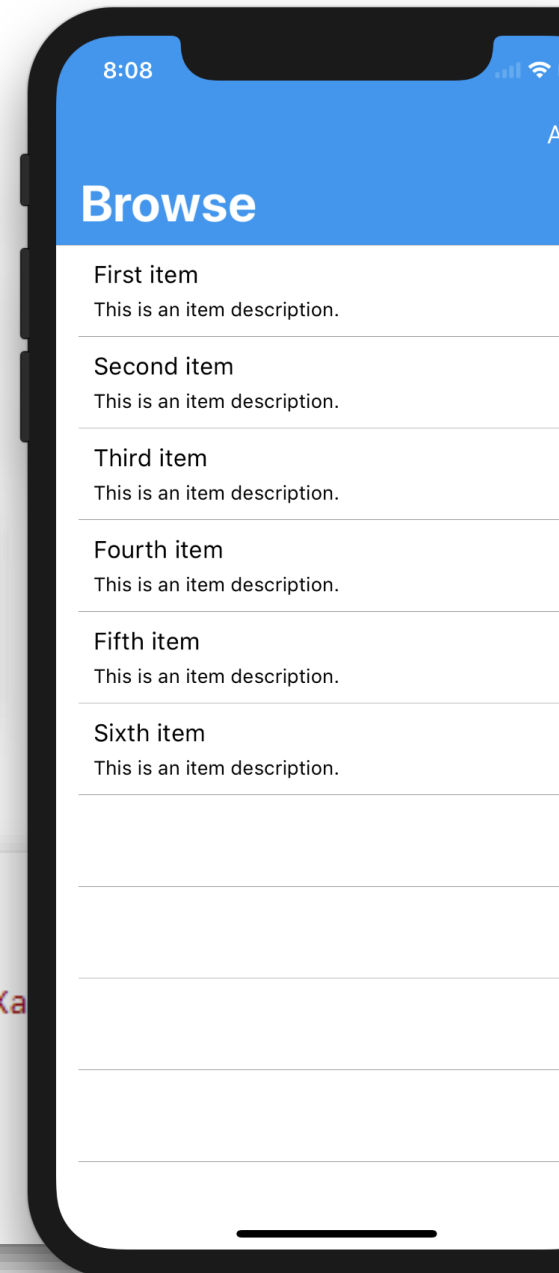
iOS Large Titles

C#

```
var navigationPage = new Xamarin.Forms.NavigationPage(new iOSLargeTitlePageCS());
navigationPage.On<iOS>().SetPrefersLargeTitles(true);
```

XAML

```
<NavigationPage xmlns="http://xamarin.com/schemas/2014/forms"
    xmlns:x="http://schemas.microsoft.com/winfx/2009/xaml"
    xmlns:ios="clr-namespace:Xamarin.Forms.PlatformConfiguration.iOSSpecific;assembly=Xa
    ...
    ios:NavigationPage.PrefersLargeTitles="true">
    ...
</NavigationPage>
```





Xamarin está incluido en Visual Studio

!Incluso en Community Edition!

Selfie Time!



Demo: Xamarin Development



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