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Windows, Linux, Mac – Neuigkeiten für Entwickler

Robin-Manuel Thiel

Technical Evangelist, Microsoft
@einrobby

Daniel Meixner

Technical Evangelist, Microsoft
@danielmeixner

#ReBuildDE

Tools and services for any developer, any app



Windows



Linux



iOS



Android

.NET

C++

JavaScript

PHP

Python

Node.js

R

Cordova

Unity

Agenda

Xamarin for everyone

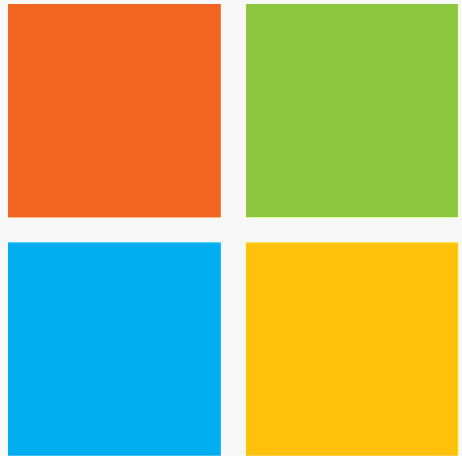
Bash running on Windows

Project Centennial

More Visual Studio News

Xamarin

What is it and why?



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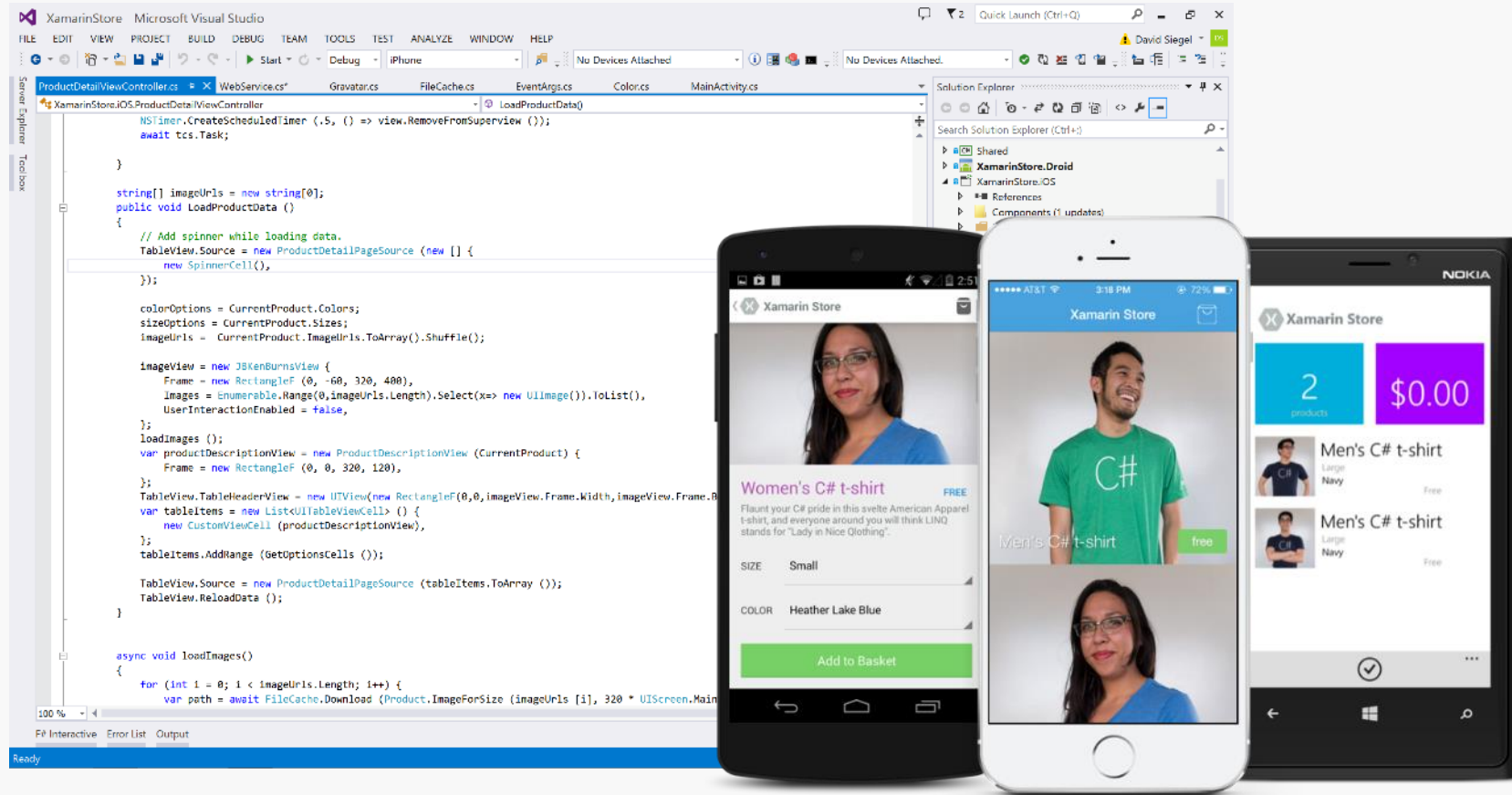


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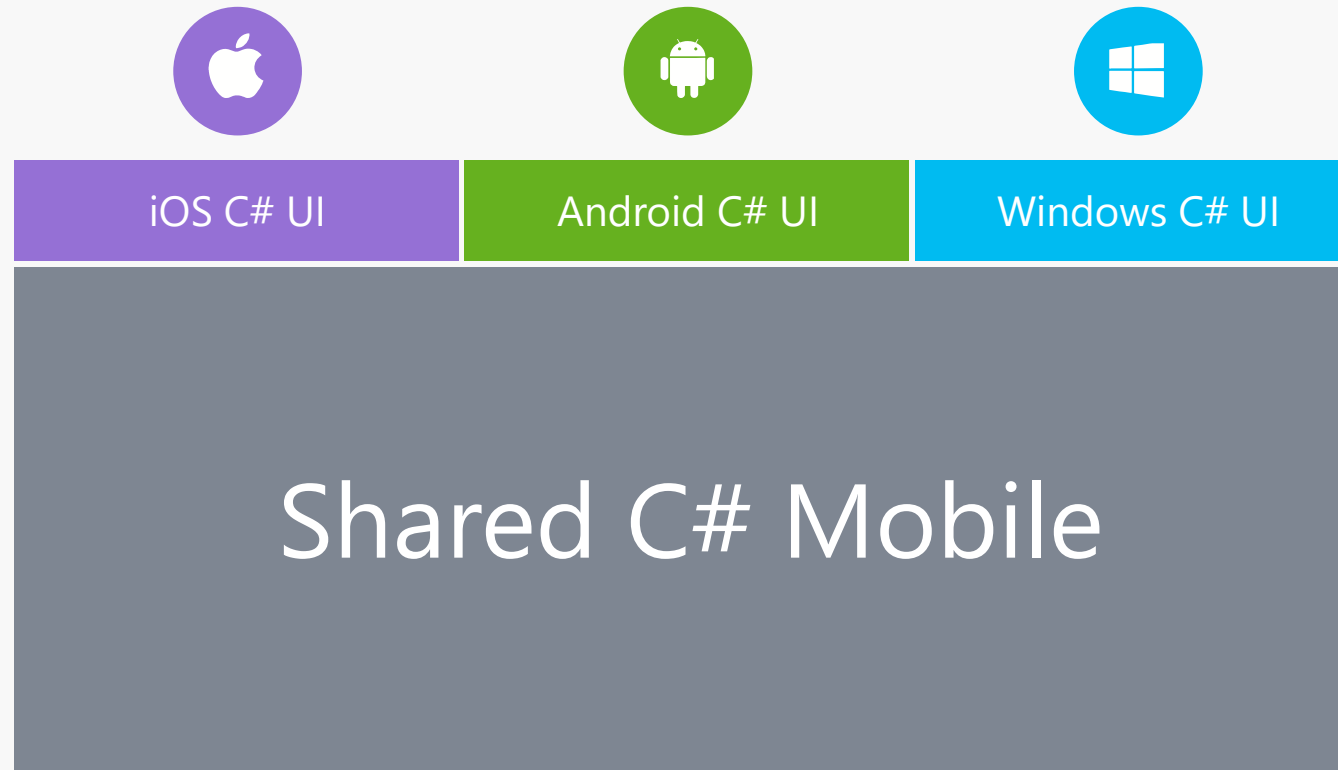
C#

on 2.5 Billion Devices

Anything you can do in Objective-C, Swift, or Java can be done in **C#** and Visual Studio with Xamarin.

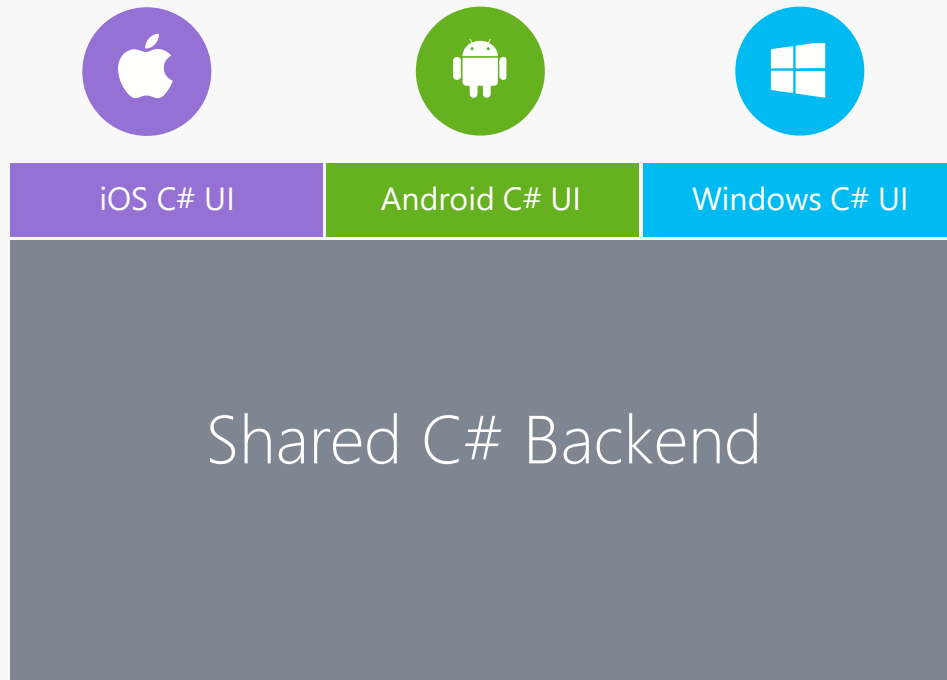


The Xamarin approach

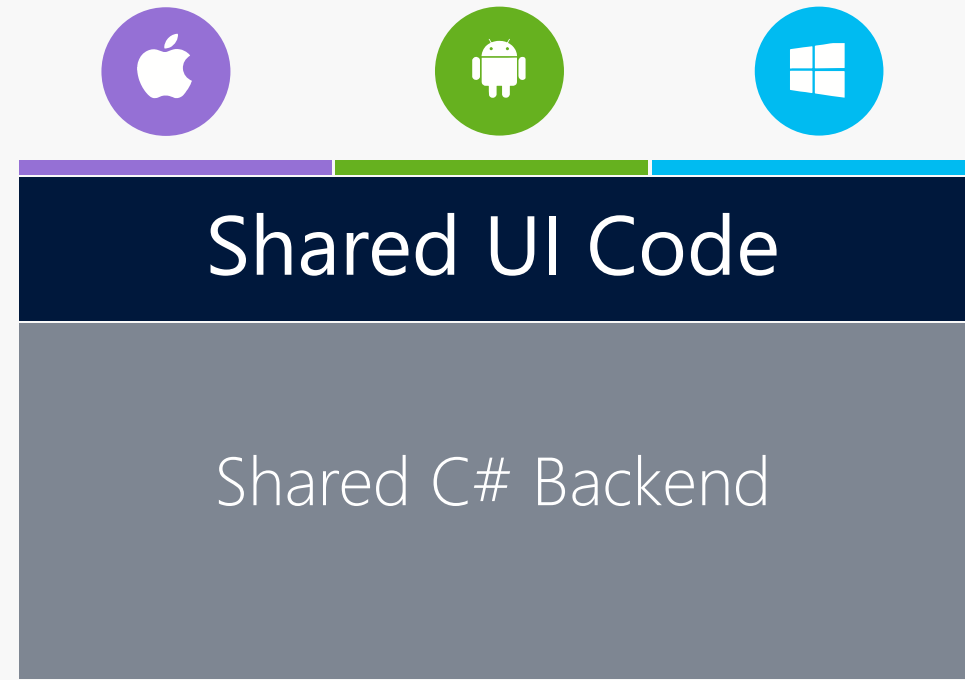


Shared C# codebase • 100% native API access • High performance

The Xamarin approach

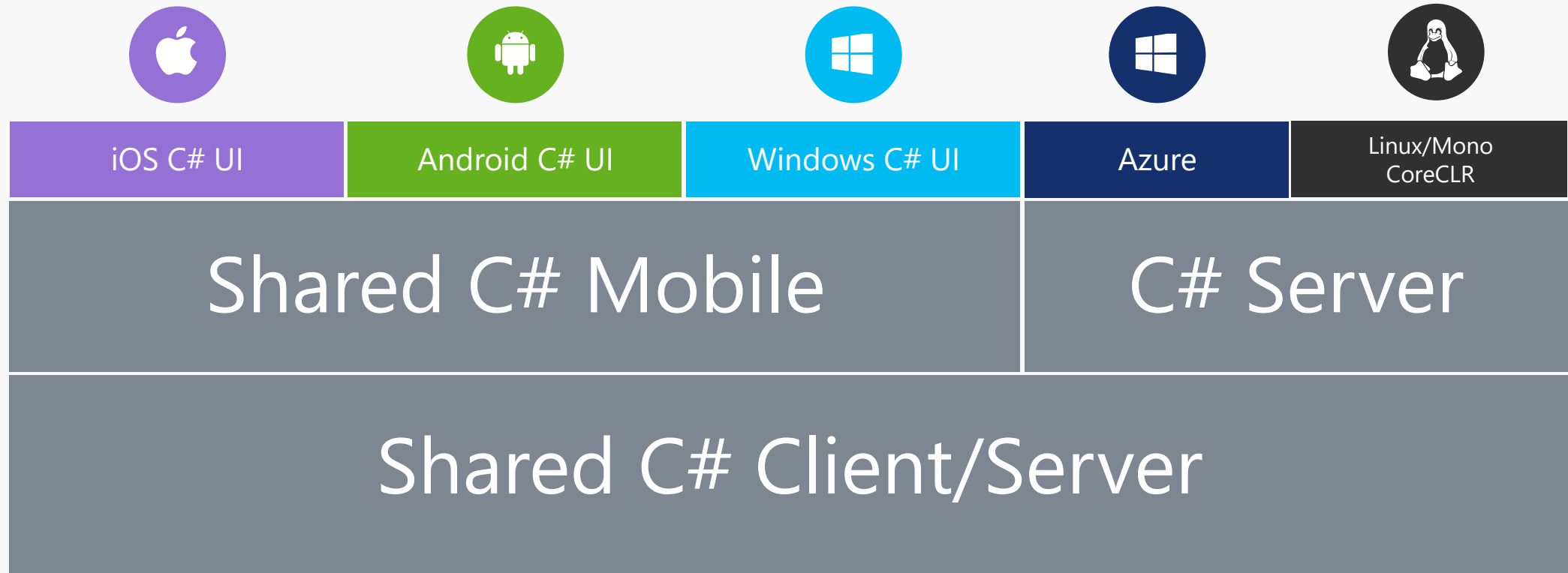


Traditional Xamarin
Approach



With Xamarin.Forms:
More code-sharing, all native

The Xamarin approach



Shared C# codebase • 100% native API access • High performance

Xamarin free for everyone

What developers need to know

Xamarin for Everyone



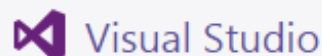
Xamarin Studio
Community

FREE

A free, full-featured IDE for Mac users to create Android and iOS apps using Xamarin.

- ✓ Students
- ✓ OSS development
- ✓ Small teams

[Download](#)



Visual Studio
Community

FREE

A free, full-featured and extensible IDE for Windows users to create Android and iOS apps with Xamarin, as well as Windows apps, web apps, and cloud services.

- ✓ Students
- ✓ OSS development
- ✓ Small teams

[Download](#)

Visual Studio
Professional

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for quote**

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- ✓ No usage restrictions
- ✓ Access to additional Xamarin University content
- ✓ Additional subscriber benefits

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Visual Studio
Enterprise

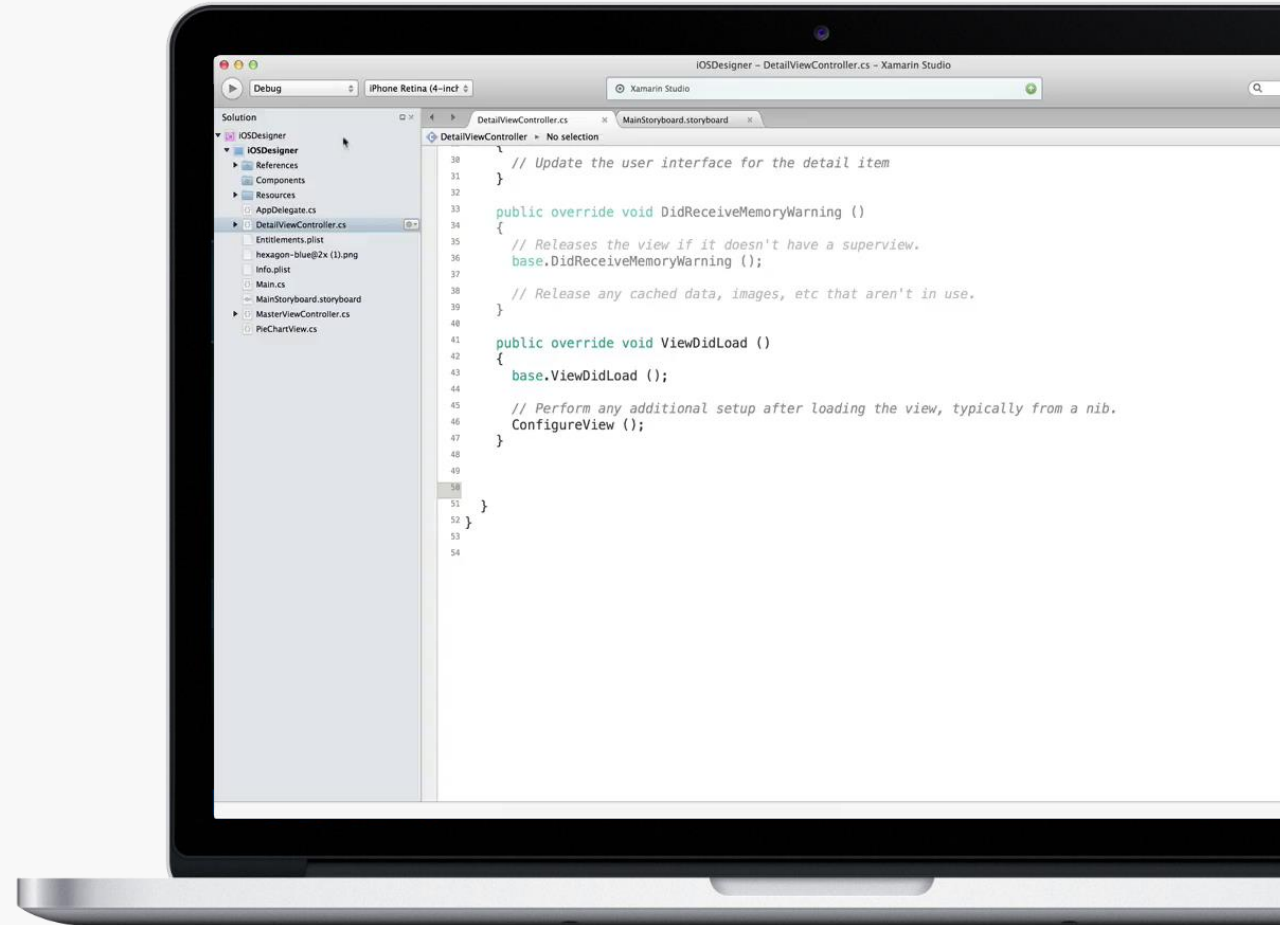
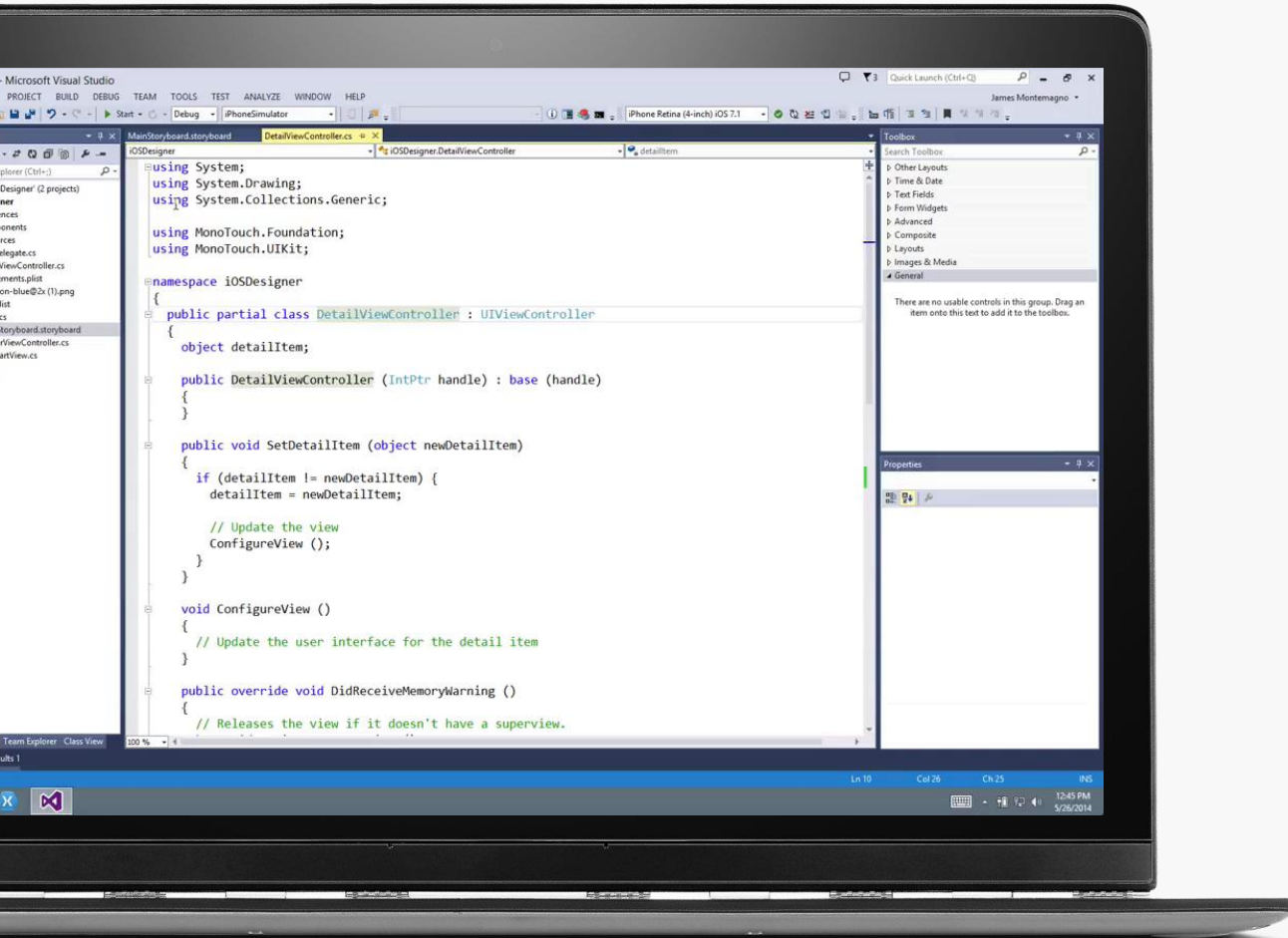
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- ✓ Enterprise capabilities
- ✓ 25% Xamarin Test Cloud discount
- ✓ Additional subscriber benefits

[Get in touch](#)

Xamarin for Everyone



Demo

Let the demo gods be with us

Xamarin for Everyone

	Visual Studio Community	Visual Studio Professional	Visual Studio Enterprise
Usage Scenarios	Students, open-source projects, and non-enterprise up to 5 users	Professional developers, small teams, and enterprise use	End-to-end solution development, including testing, monitoring, & feedback
Price	Free	See latest Visual Studio 2015 pricing	See latest Visual Studio 2015 pricing
App Restrictions	None. Unlimited app size. Deploy to public and private app stores.	None. Unlimited app size. Deploy to public and private app stores.	None. Unlimited app size. Deploy to public and private app stores.
Developer Environment	Xamarin for Visual Studio Xamarin Studio for Mac	Xamarin for Visual Studio Xamarin Studio for Mac	Xamarin for Visual Studio Xamarin Studio for Mac
Cross-Platform Development	Xamarin.Forms, Xamarin.iOS, Xamarin.Android Reusable NuGets & Components	Xamarin.Forms, Xamarin.iOS, Xamarin.Android Reusable NuGets & Components	Xamarin.Forms, Xamarin.iOS, Xamarin.Android Reusable NuGets & Components
Enterprise Features			Bytecode Hiding Live App Inspection (preview) Profiler (preview) Test Recorder IDE add-ins (upcoming)
HockeyApp	Additional purchase	Additional purchase	Additional purchase
Xamarin Test Cloud	Additional purchase	Additional purchase	25% discount
Xamarin University On-Demand	On-Demand classes & labs	On-Demand classes & labs Additional classes available	On-Demand classes & labs Additional classes available
Technical Support	Community and Forums	Included with subscription	Included with subscription

Open Source

With these changes, .NET is now open source and native on every single device, from mobile to desktop to cloud.

Nat Friedman
Xamarin CEO and founder

The Mono project has been contributed to the .NET foundation

Mono will be re-released under MIT license

Xamarin SDKs and Xamarin.Forms will be open-sourced in the coming months

Other Xamarin products



Xamarin Insights

Joining Hockey App



Xamarin Test Cloud

We will continue to provide Xamarin Test Cloud as a standalone product



Xamarin University

Will include new Microsoft focused lectures and continue to offer a first class learning environment

Bash running on Windows

Bash running on Windows

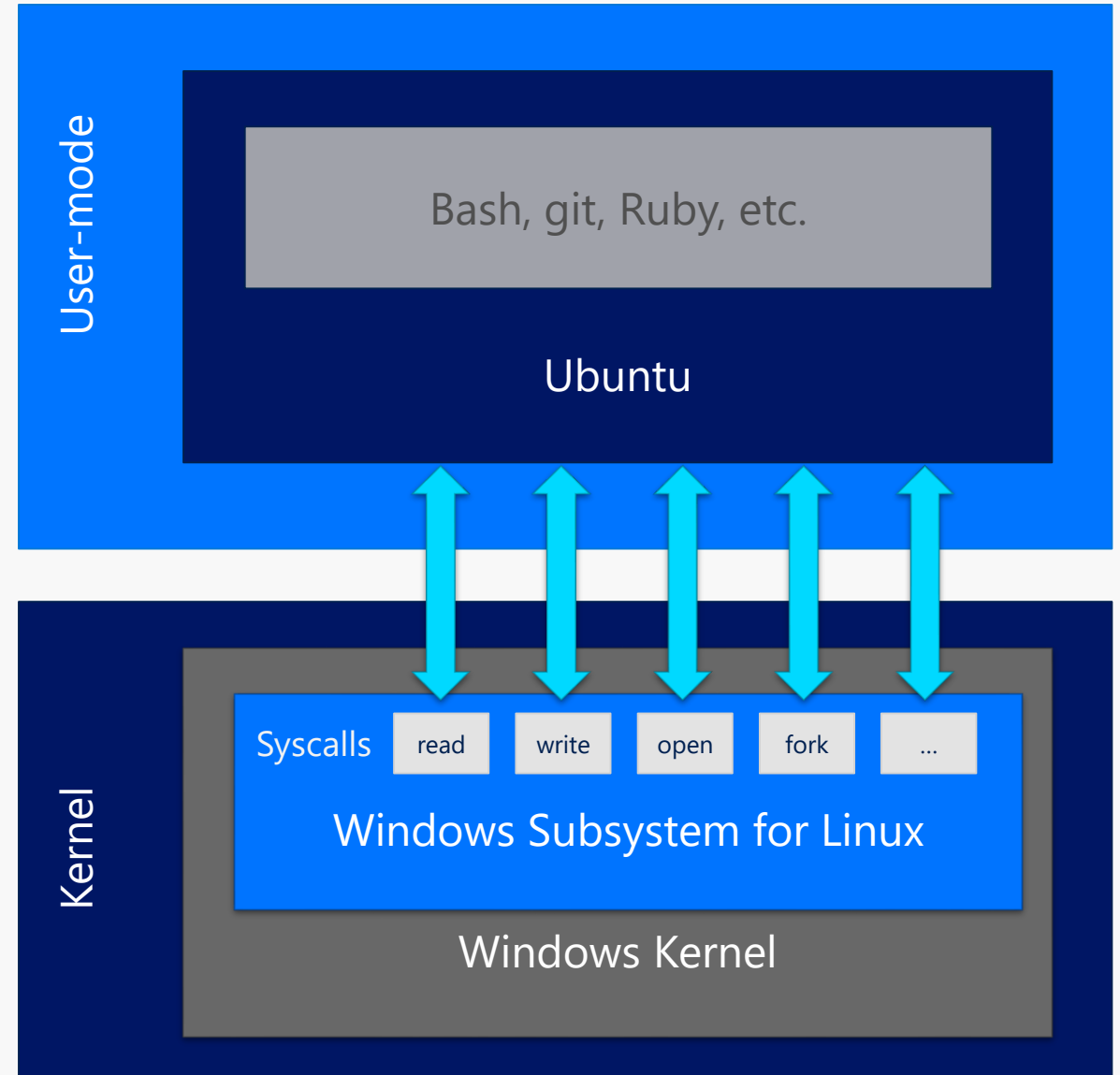
- Integrate UserMode Linux & its tools into Windows
- Run Linux on Windows
- Introducing
 - Windows Subsystem for Linux
 - Ubuntu UserMode on Windows through partnership with Canonical

Demo

Bash running on Windows

What we just saw

- Native Linux Bash
- On Windows Subsystem for Linux
 - A new feature of the Windows kernel
 - Exposes a Linux-compatible syscall layer



More Visual Studio News...

Demo

Linux Projects from Visual Studio

Visual Studio 15 Preview

- C++ for Linux
- XAML Edit & Continue
- Any Code
- New Installer (Project Willow)
- Nuget Package referencing
- Jump to Source for Nuget Packages
- C# REPL (*Read Eval Print Loop*)

Visual Studio Code

- Version 1.0
- C# Extension with .NET Debugging

Project Centennial

What is Project Centennial?

Improving the Windows platform for all developers

Convert desktop apps to the Universal Windows deployment technology

Keep your current Win32/.NET code running

Code targets Windows 10 and Windows 7 PCs

Add Universal Windows components over time

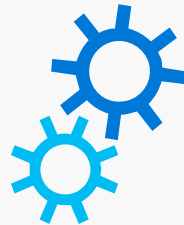
Monetize via Windows Store or other distribution of choice

Developer Workflow

Desktop App Converter

Converts existing desktop installer

Results in a packaged app with UWP manifest



Test, Update and Evolve

Make compatible code changes that go into both MSI and app package

Evolve app package to take advantage of the Universal Windows Platform

Publish and Distribute

Distribute the app package via sideloading, MDM or the Windows Store*

*Pending availability

Top Sessions at //build

L703: Cross-Platform Mobile Development 1: Xamarin

Wednesday, March 30, 11:30am – Main Theater, Moscone Center

Nish Anil, Pierce Boggan, Varun Gupta (DTG), Simina Pasat, Ruben Rios, Jukka Silvennoinen

L702: Cross-Platform Mobile Development 2: Continuous Integration

Wednesday, March 30, 02:00pm – Main Theater, Moscone Center

Nish Anil, Pierce Boggan, Varun Gupta (DTG), Simina Pasat, Ruben Rios, Jukka Silvennoinen

T668: Using HockeyApp with Xamarin Apps

Thursday, March 31, 11:40am – Main Theater, Moscone Center

Joshua Weber

Call to Action

C++ Projects for Linux

<https://visualstudiogallery.msdn.microsoft.com/725025cf-7067-45c2-8d01-1e0fd359ae6e?SRC=Featured>

Bash on Ubuntu on Windows

<https://channel9.msdn.com/events/Build/2016/P488>

Project Centennial

<https://www.microsoft.com/en-us/download/details.aspx?id=51691>

<https://msdn.microsoft.com/de-de/windows/uwp/porting/desktop-to-uwp-run-desktop-app-converter>

<https://channel9.msdn.com/events/Build/2016/B829>

Visual Studio 15 Preview

<https://channel9.msdn.com/events/Build/2016/B859>

Re-visit Build on [Channel 9](#)

Continue your education at

[Microsoft Virtual Academy](#) online



Thank you!