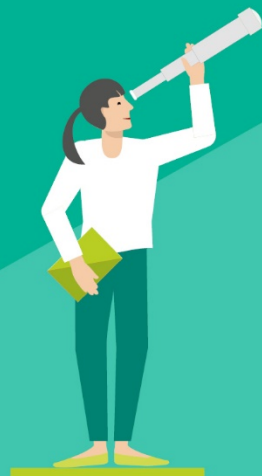


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State of Windows Client Development



linkedin.com/in/lindforsjohan/



twitter.com/johanlindfors



github.com/johanlindfors



programmeramera.se

Windows desktop market and opportunity

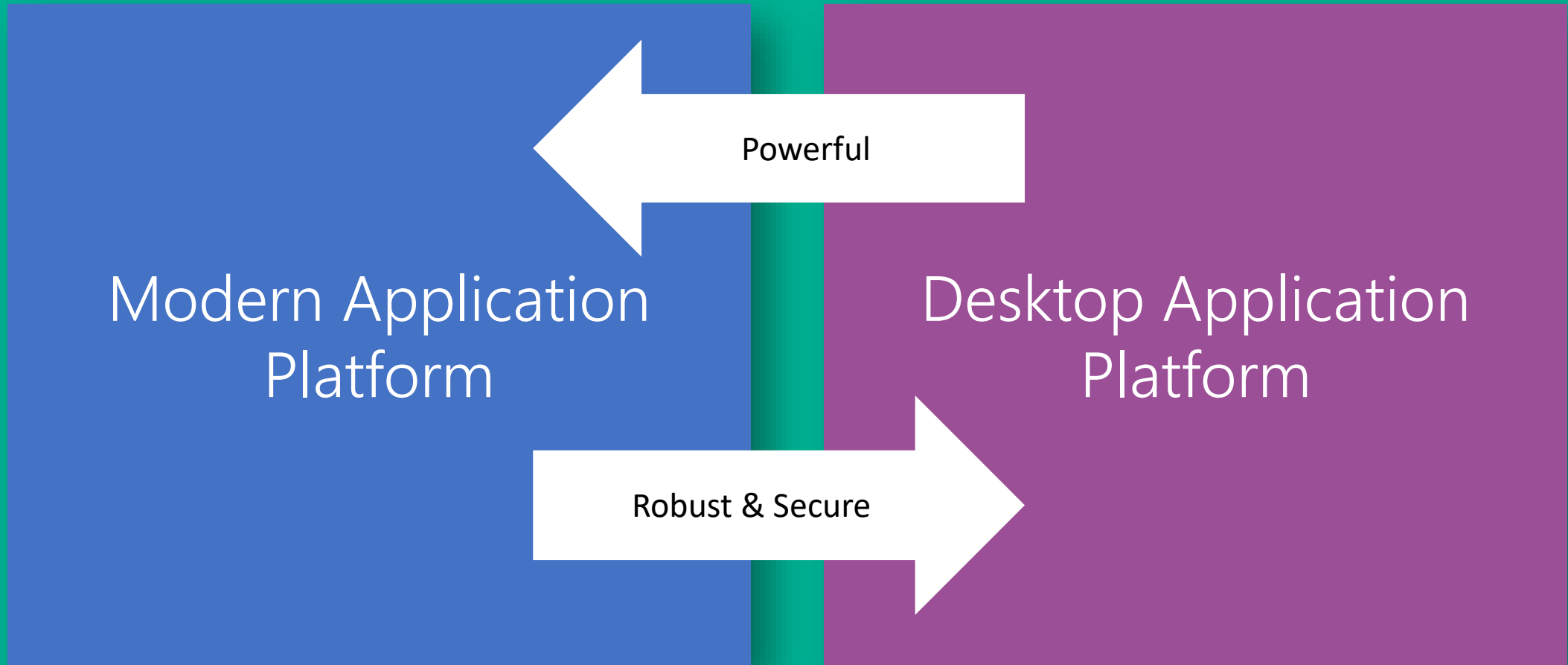
2.4 Million

Developers building
desktop apps in Visual
Studio every month

900 Million

Windows 10 devices

One “Windows” Platform



Modern desktop applications

- User experiences that leverages the hardware
- Simplified and efficient distribution
- Latest technologies and innovations
- Connected to the cloud

You have several choices!

- Universal Windows Platform
- Win32
- WPF/WinForms
- Progressive Web Apps

Windows Template Studio

- Accelerates creation of new UWP apps
 - Wizard based
- Uses proven patterns and best practices
 - Generated code has links to docs, SO and blogs
 - Built with the community, for the community
- aka.ms/wts

Demo

Windows Template Studio

.NET Core 3.0

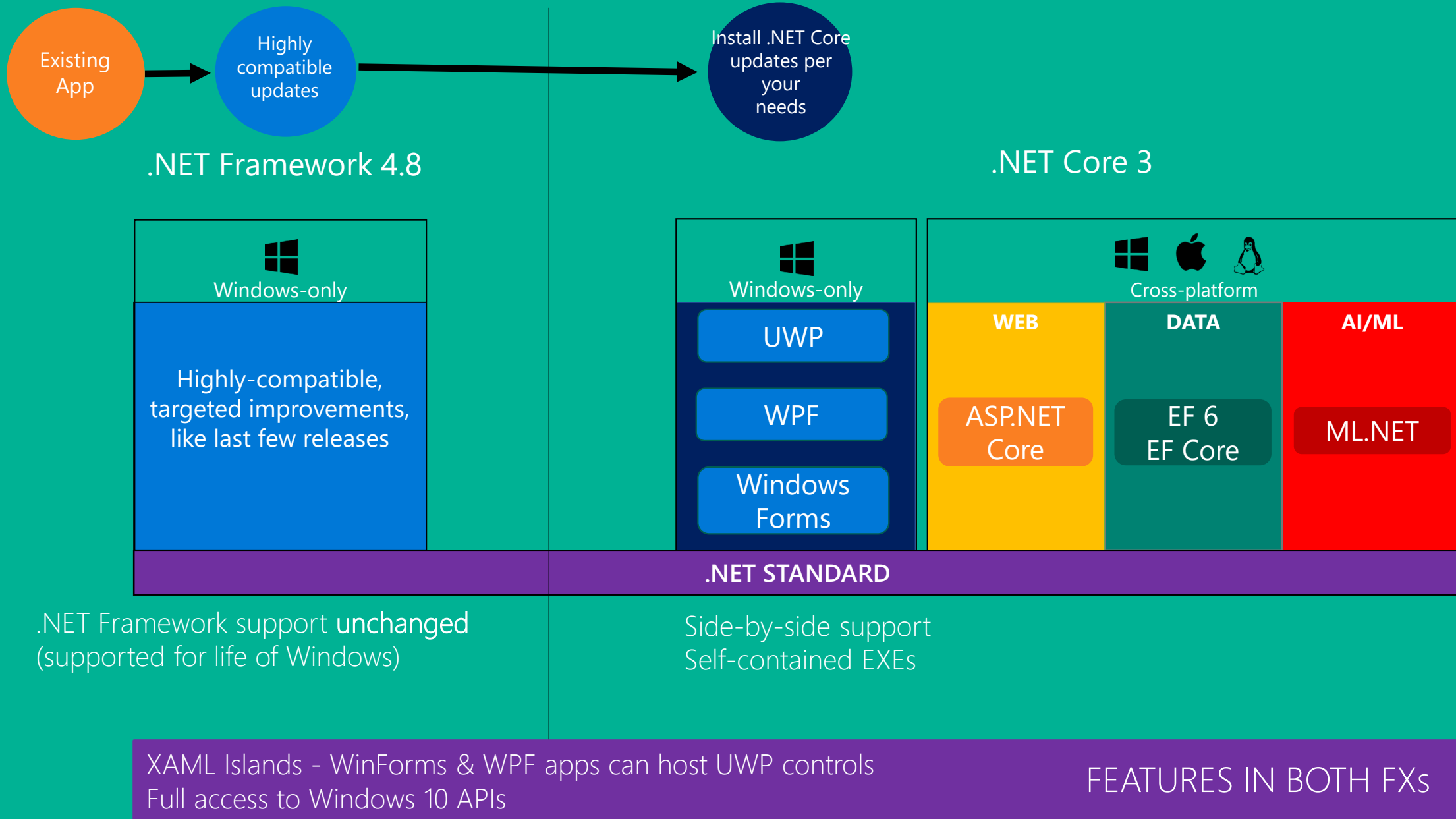
- Launched on September 23
 - WPF and WinForms support on Windows
 - ASP.NET Core 3.0
 - EF Core 3.0
- Visual Studio 2019 16.3 supports building and debugging
 - Designer support for WPF
 - WinForms design support through VSIX

Demo

Desktop applications in .NET Core 3

Update .NET Framework Apps

Modernize Desktop Apps with .NET Core 3



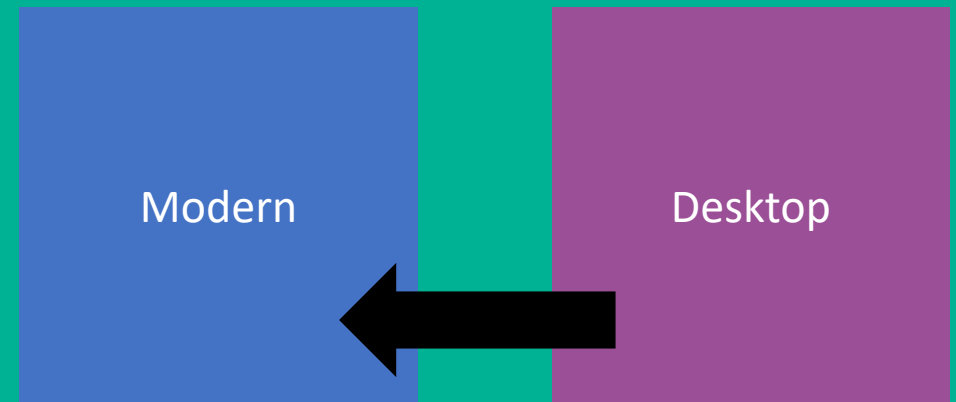
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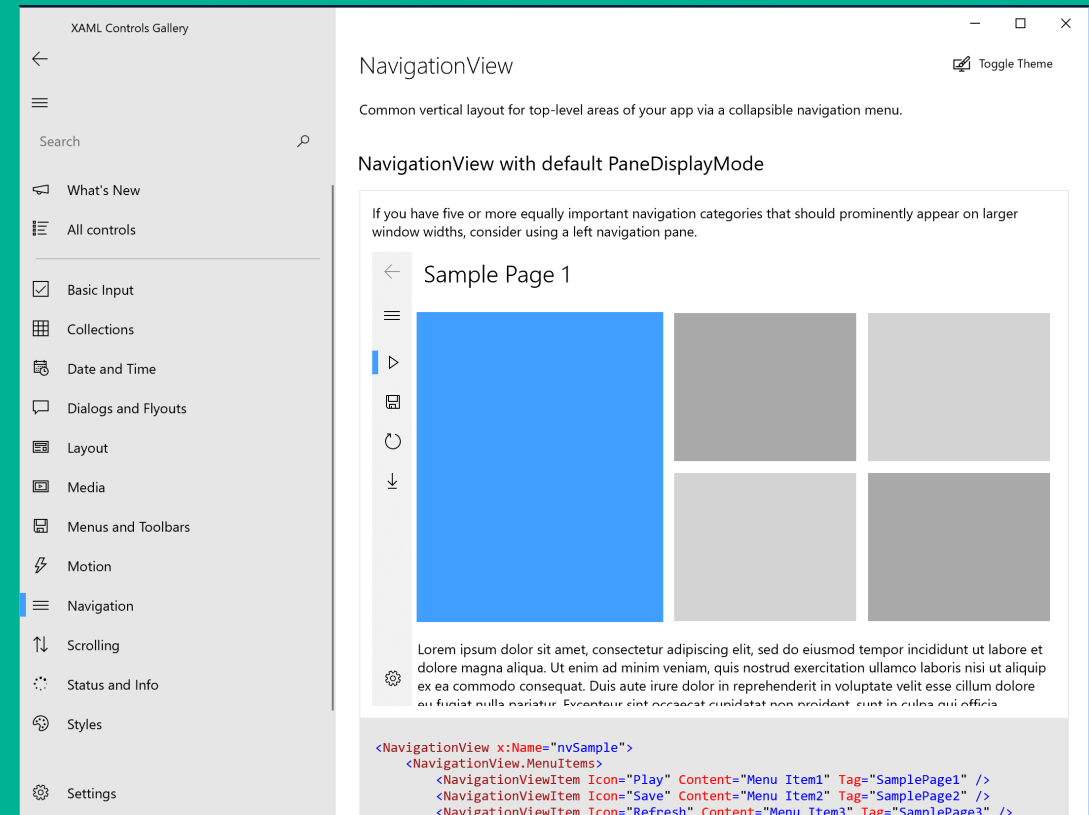
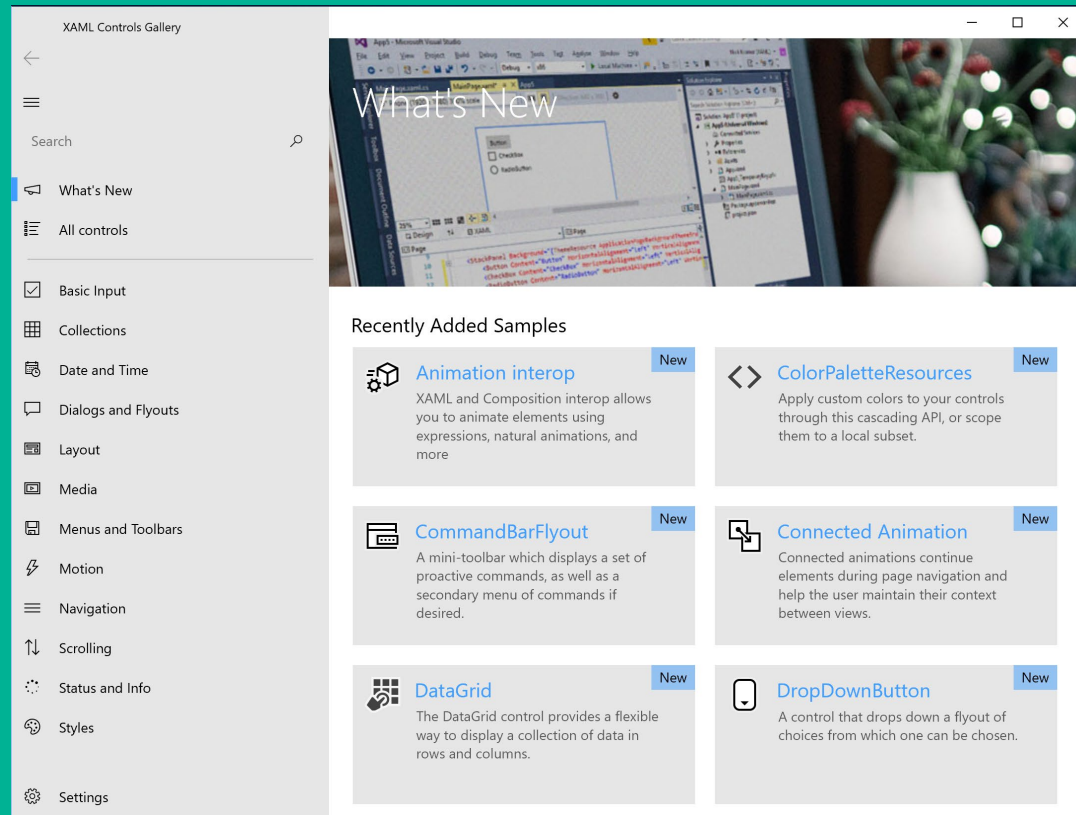
Experiences

UWP XAML is LOB ready

- Improved Information Density
- LOB Controls & Framework Features
- Windowing APIs

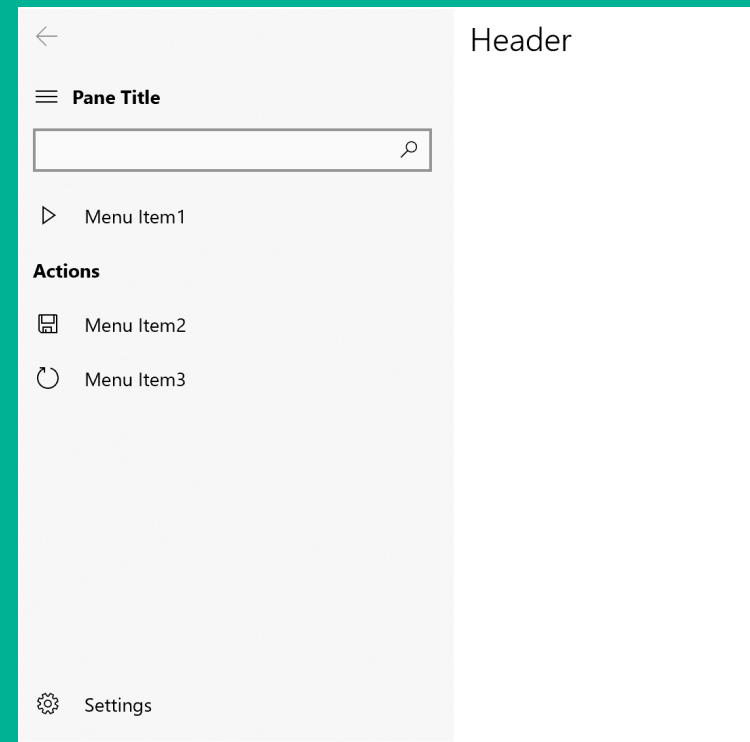
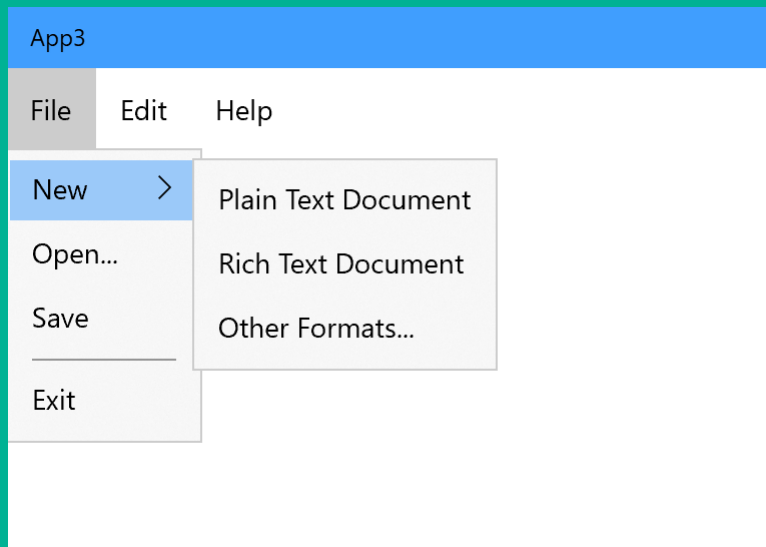


XAML Controls Gallery

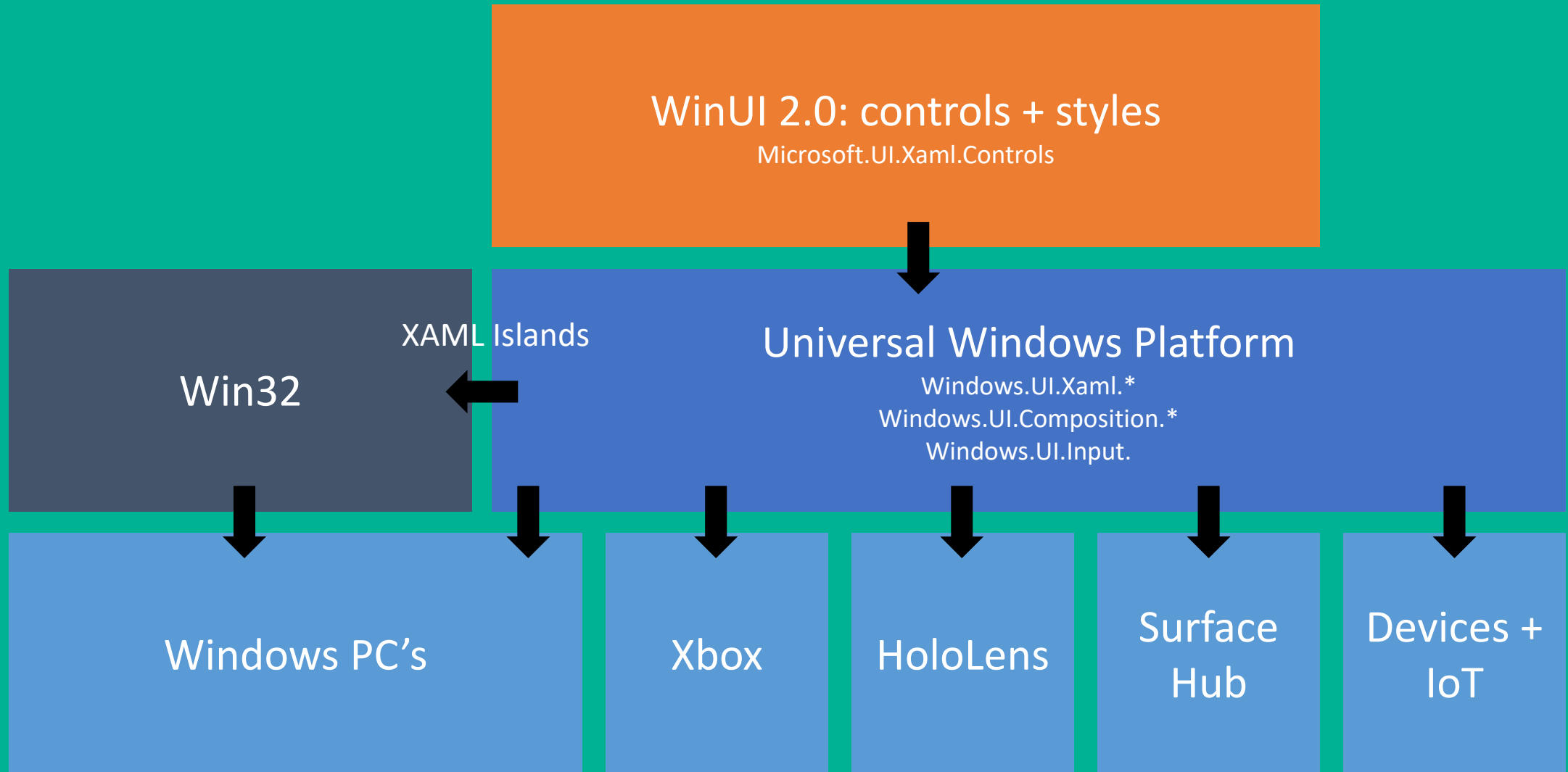


WinUI Library

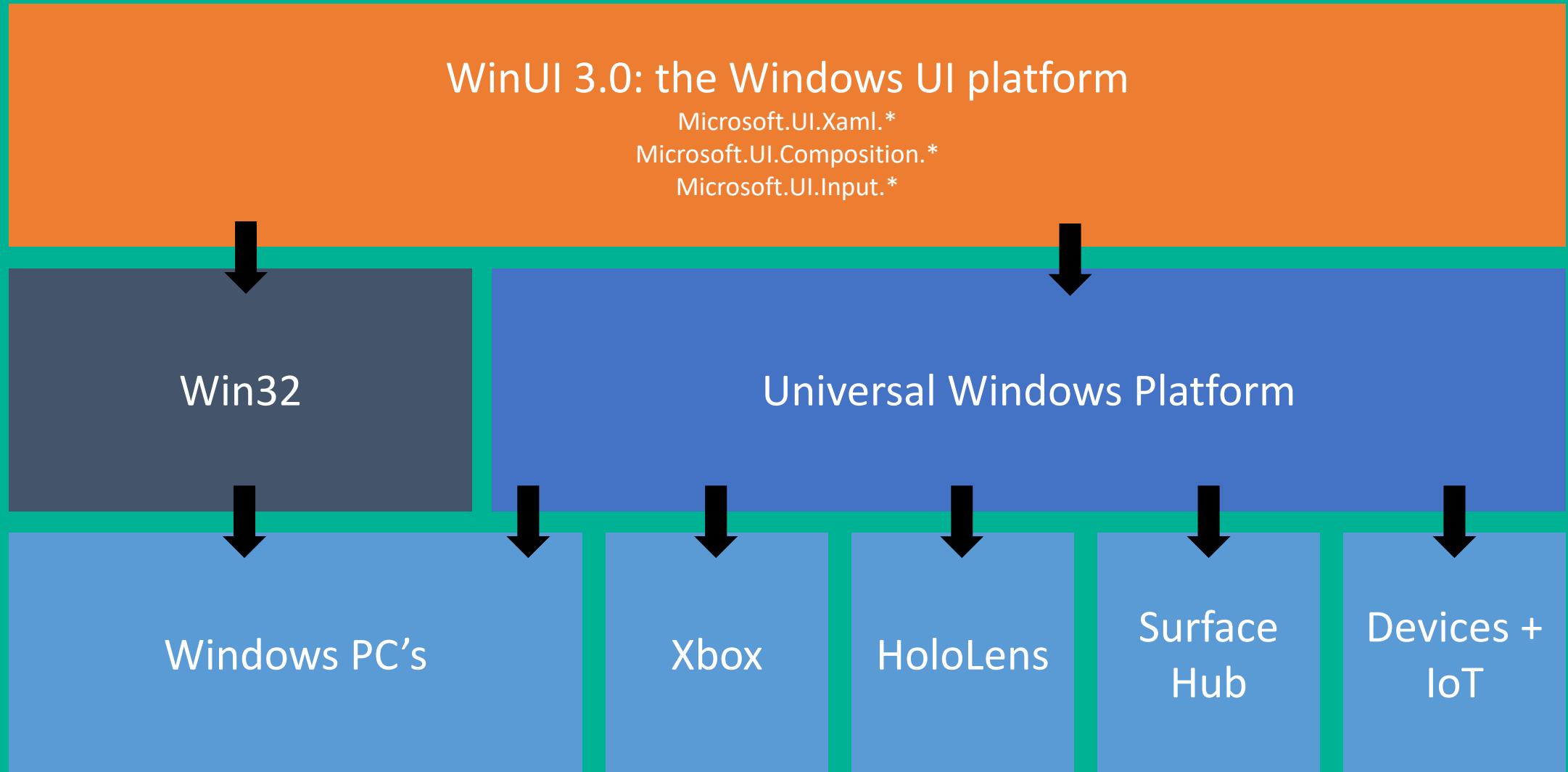
- Out-of-band updates of controls



WinUI Library roadmap



WinUI Library roadmap

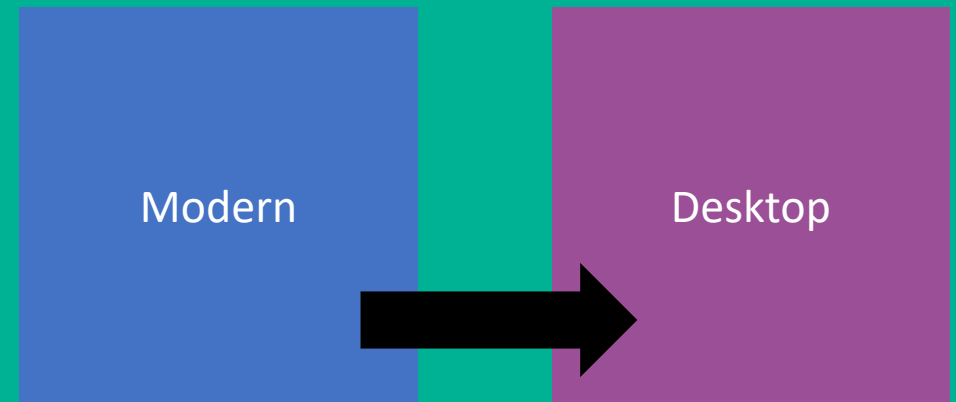


Demo

WinUI with C++/WinRT

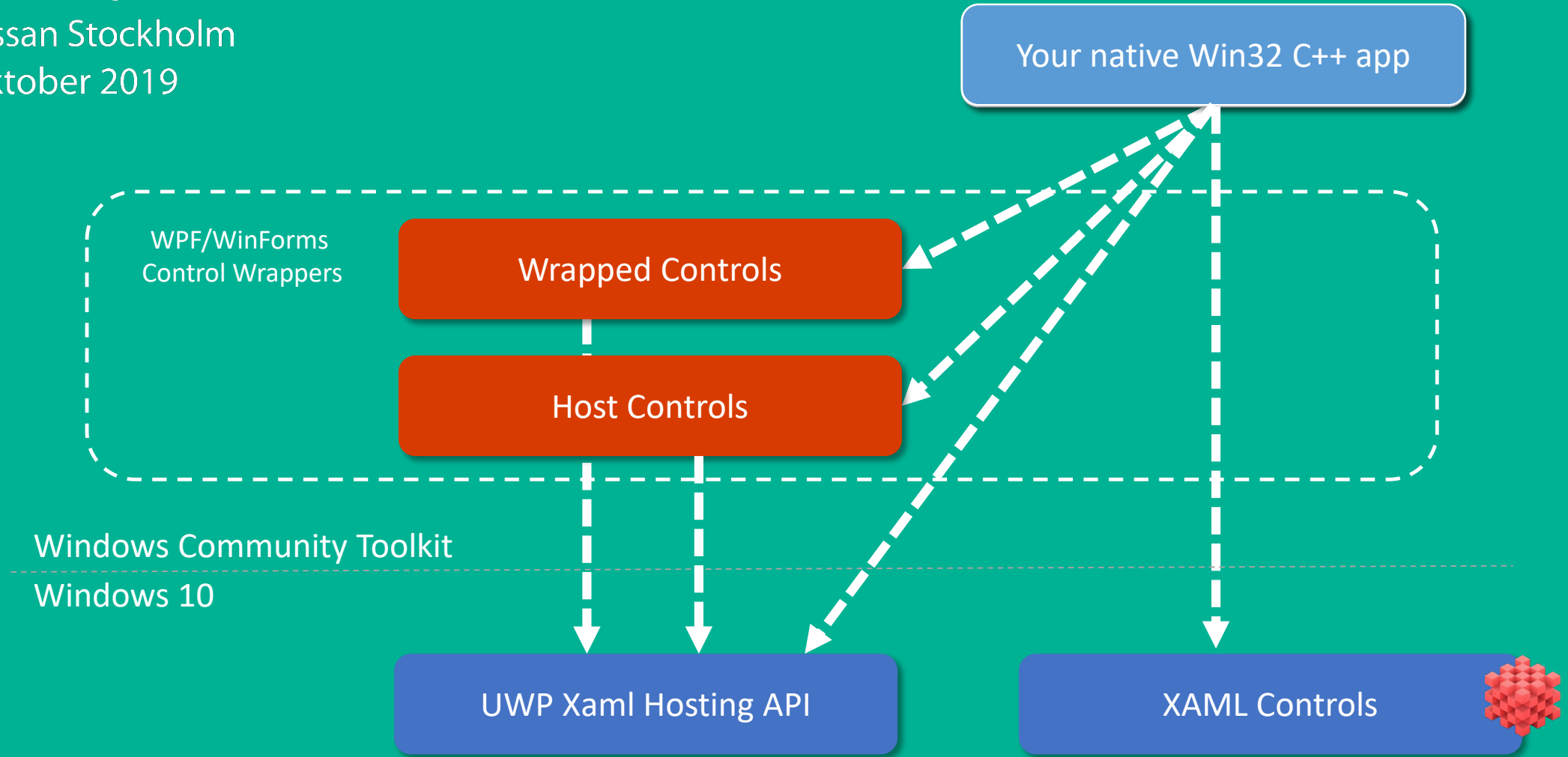
XAML Island components

- No need to rewrite your apps as UWP
- Leverage what you need
 - Wrapper Controls
 - Host Controls
 - UWP XAML Hosting API

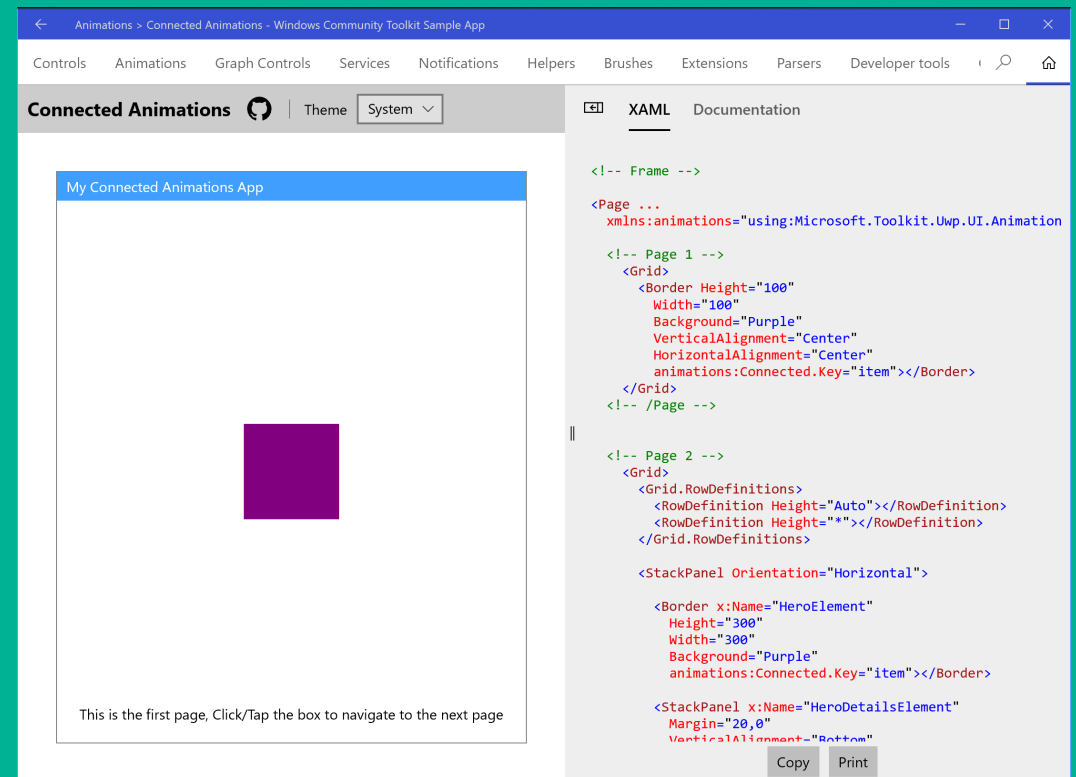
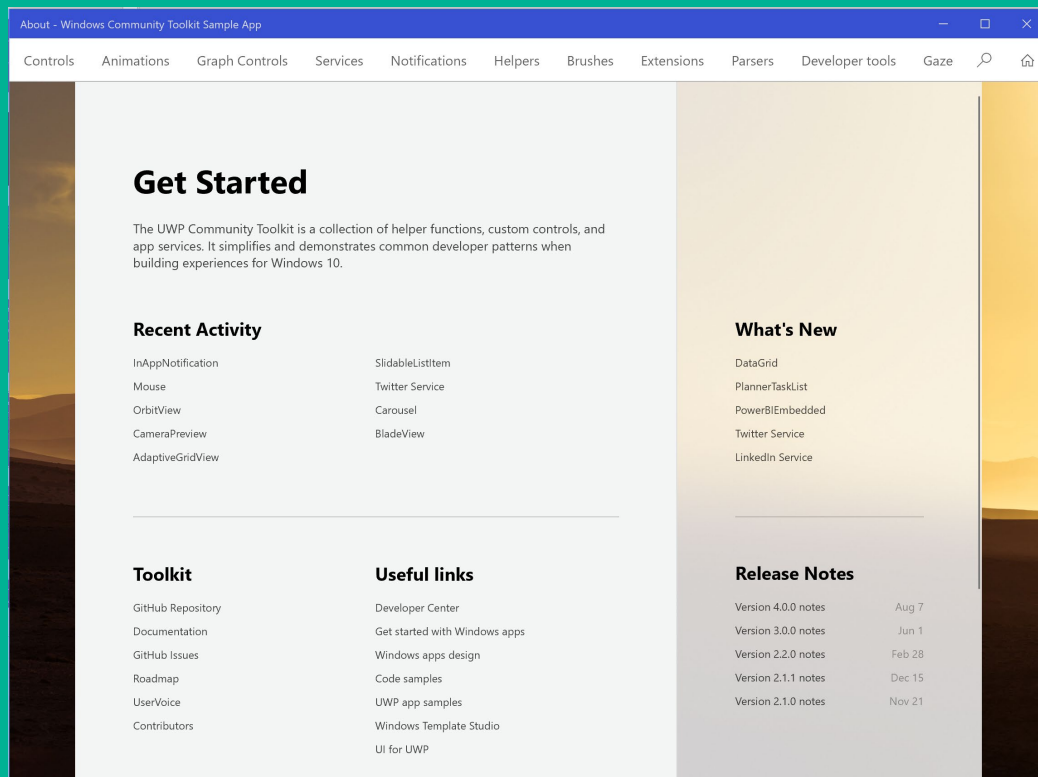


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Windows Community Toolkit



Demo

Win32/WPF/WinForms XAML Islands

WebView

- Many apps leverages an embedded web view
 - WPF/WinForms uses Trident (Internet Explorer)
- WebView
 - Windows 10 only
- WebViewCompatible
 - API subset
 - Trident on Windows 7, Edge on Windows 10

Demo

WebView

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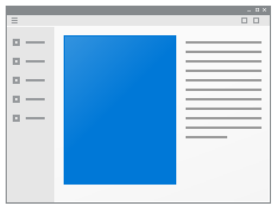
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Distribution

Challenges

- Installation
 - Installers put things everywhere
 - .NET SxS
- Updates
 - Automatic/manual?
- Uninstall

Evolution



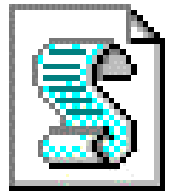
Setup.exe



MSI



MSIX



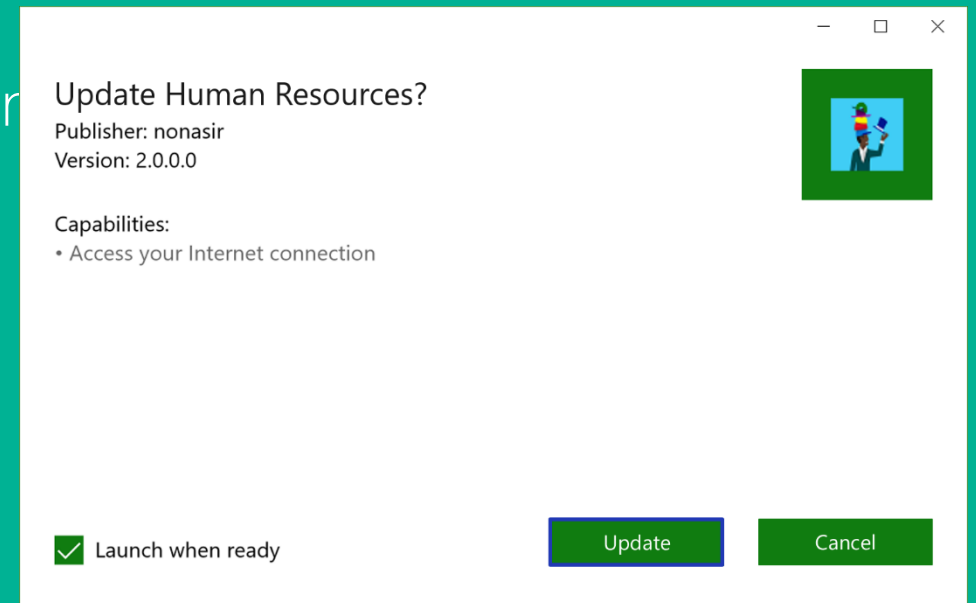
script.vbs

MSIX

- Install securely
 - OS Managed installs, updates, removes
 - Tamper protection
- Optimized updates
 - Single instance storage of files
 - Differential updates at the block level
- Never regret installing an app: clean uninstall
 - Uses a type of container

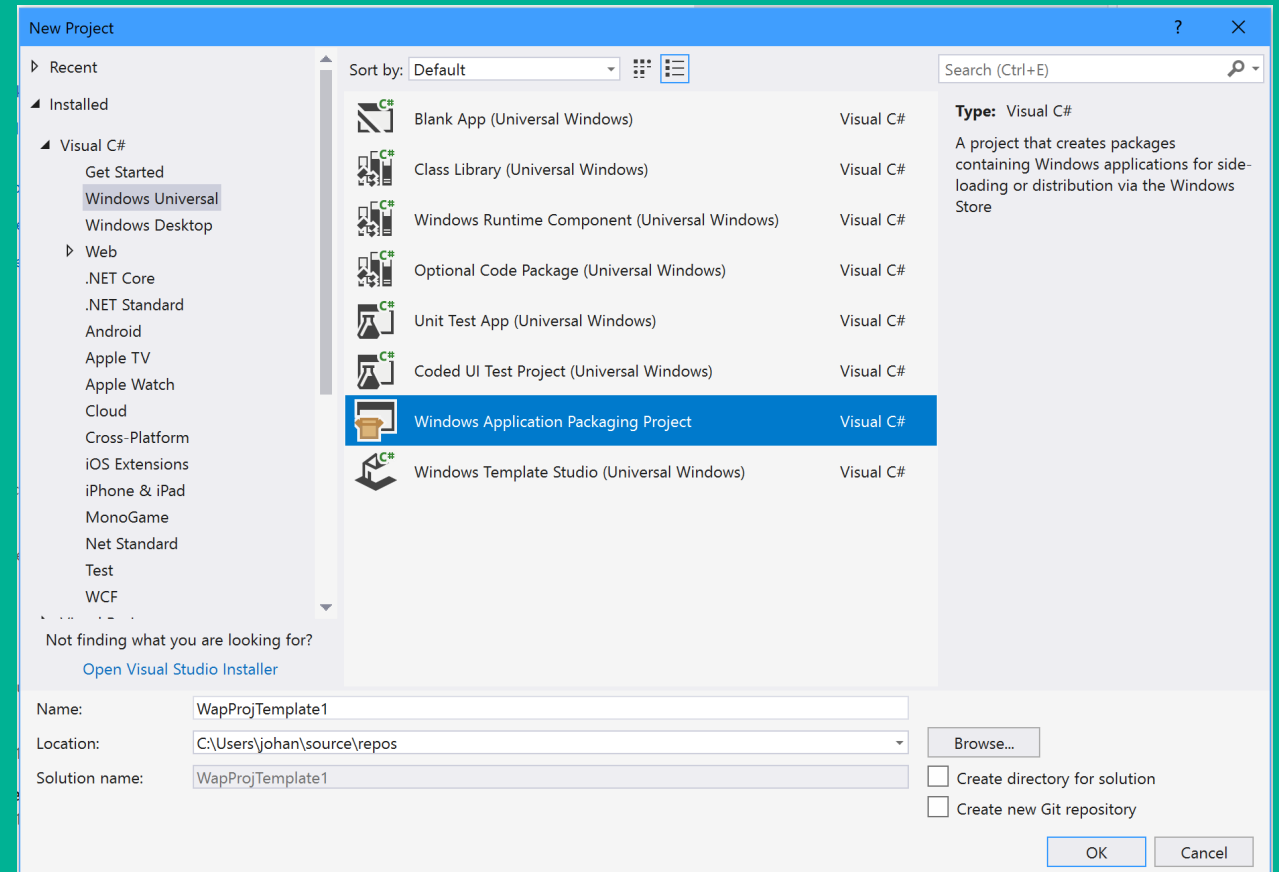
Automatic updates

- User prompted updates
- Silent updates in the background
 - Updates independently of app launch
 - API to check for app updates while app is running



Migrate existing projects

- Console based commands
- Project templates for Visual Studio



Demo

Packaging project as MSIX

More technologies

- Microsoft Graph
- Mixed Reality
- Windows Machine Learning
- Uno/Urho/Mono
- Blazer
- Xamarin

React Native Windows

- A framework for building native Windows apps with Reach
 - <http://facebook.github.io/react-native>
 - Leverage your javascript skills
 - WPF or UWP apps
- Roadmap
 - Current C# version in maintenance mode
 - Future C++ version (vnext)
 - RC in a near future, possibly holidays 2019/2020

Demo

React Native Windows

Retrospective

- Huge windows client potential!
 - It's a symbiotic relationship!
- Not necessary to replace!
 - Integrate and innovate!
- You have choices, several!
 - Prepare today for tomorrows technologies!

Key technologies

- .NET Core
- Windows Runtime API's
- WinUI Library
- MSIX

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Please take the opportunity to
evaluate this session in the app

Thank you!

Thank you!

//coderox