



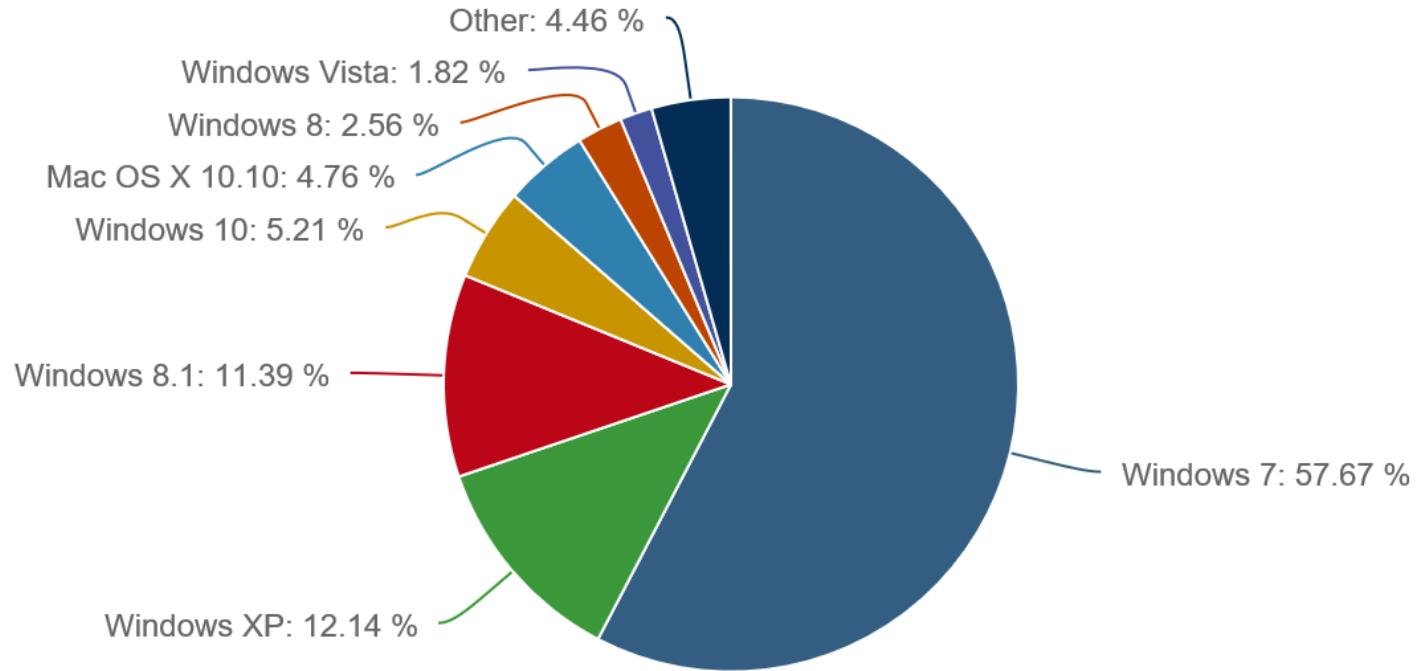
# ALM & DevOps Day

24. September 2015, Zürich Oerlikon

# Windows 10 / Universal App Platform

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# Windows 10 market share in only 1 month

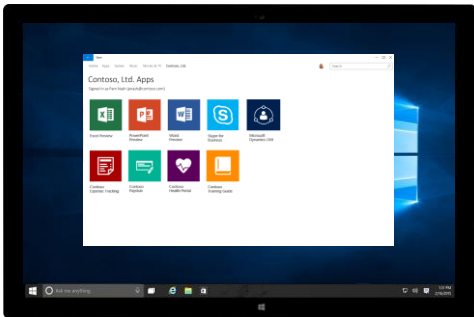
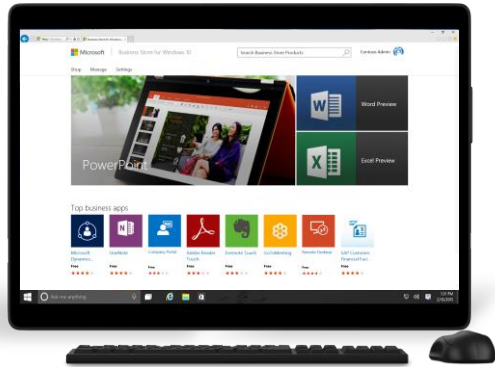


# One app platform



# New for Windows 10: Business Store

Leverage the platform and tools you use today to **build high value business scenarios**



**Extend your reach to organizations in volume**

Reach businesses and orgs of all sizes with your existing apps

One solution to submit customized apps too

**No additional overhead**

One Dev Center submission flow, same as consumer

Dashboard to manage and track all apps

**Seamless for organizations and end-users\***

Solution to discover, acquire, manage and distribute apps in volume

Users install across Windows 10 devices

Available for Education users

**Get Started today**

Dev Center is now open for Windows 10 app submissions

\* Available to organizations later this year

# 1 Billion Windows 10 Devices



## Universal Windows Platform

Web

.NET & Win32

Java/C++

iOS  
Objective C

# Universal Windows Store Web code

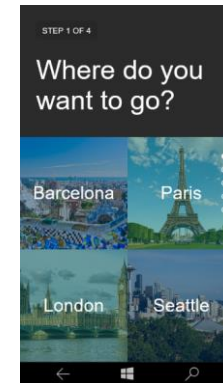
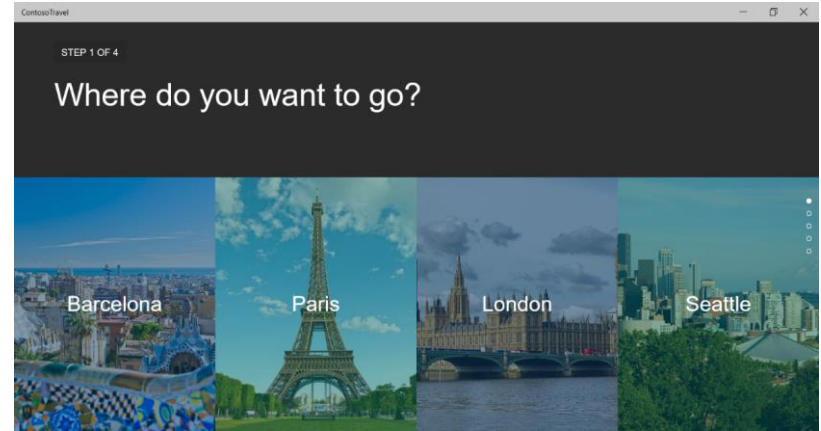
Publish your website to the UWS

Reuse SAME website code

Use same tools to manage websites & web code

Take advantage of UWP capabilities: notifications, Cortana, IAP, Xbox Live

Make your code more engaging and reach more customers on Windows



# Demo

Web App



# Universal Windows Apps .NET & Win32

Bring your Classic Windows apps to the UWS

App model integrates into the Windows App Model

Better way to install/uninstall/update

Runtime “virtualizes” registry/disk access

Enforces Windows App Model Policy

More flexible multitasking

Richer Tiles and Action Center



# Universal Windows Store Android & Java/C++

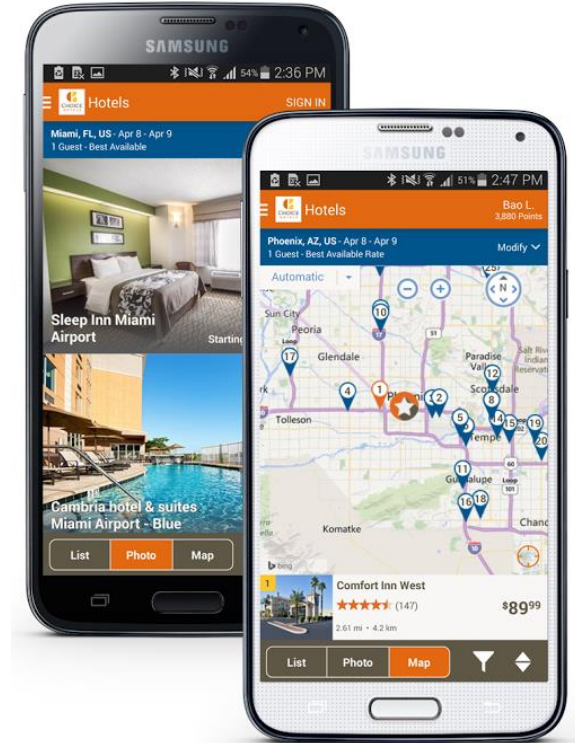
Bring your Android PHONE apps to the Universal Windows Store

Reuse nearly all your Java and C++ code

Use your Android IDE

Tool will translate and redirect Android concepts to Windows concepts

Apps will use MS services with minimal code change



# Universal Windows Apps

# iOS Objective C

Bring iOS apps to the Universal Windows Store

Toolkit compiles Objective C code in MS Visual Studio

Easily include iOS code within Universal Windows Apps

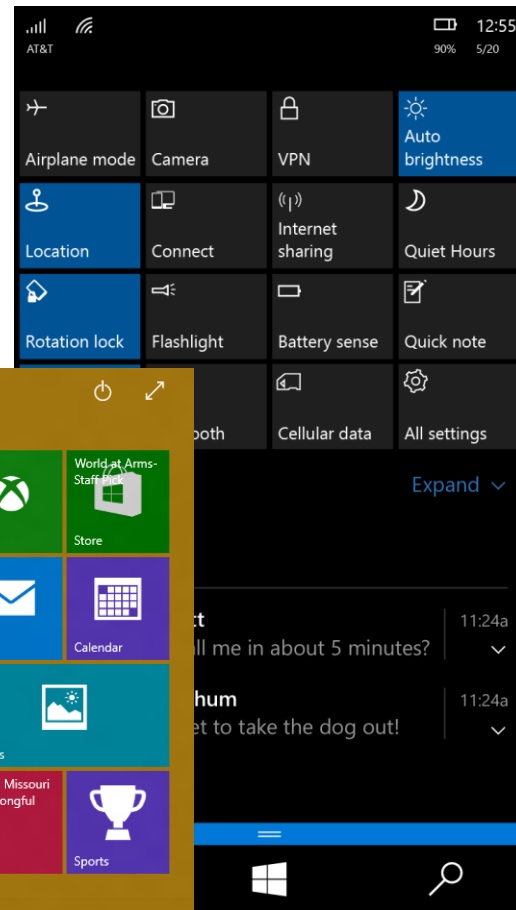
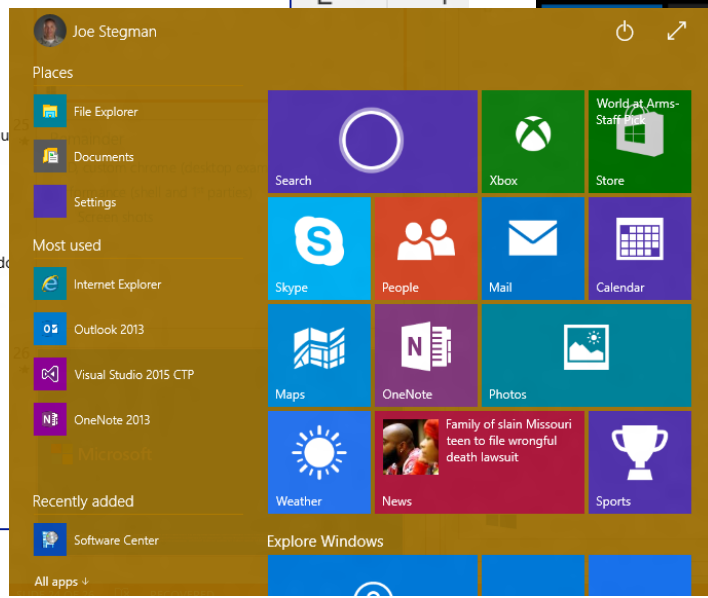
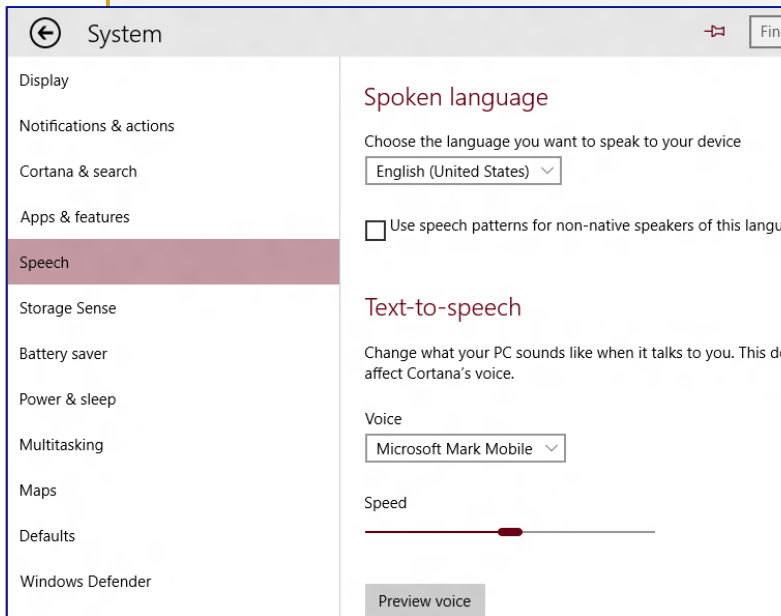
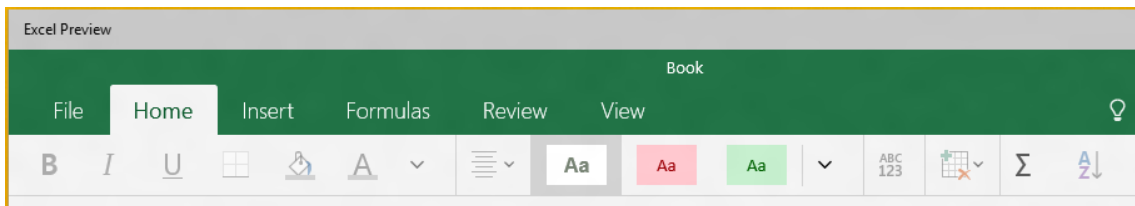
Extend with the rich capabilities of the UWP: notifications, Cortana, IAP, Xbox Live



# Demo

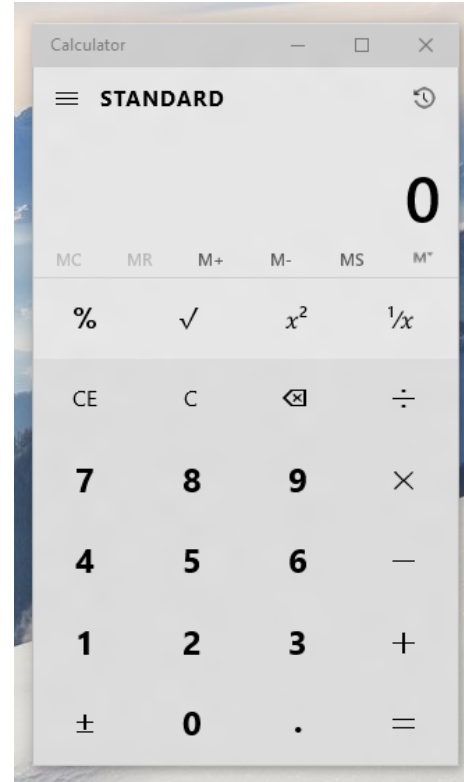
Objective C

# UWP XAML *in* Windows 10



# Controls Reusable Across Devices/Displays

Views *may* be reusable (but likely to need *tailoring*)



# Demo

Basic





# SplitView

## Adaptive navigation pane

```
<SplitView DisplayMode="Inline|Overlay|CompactInline|CompactOverlay">
```

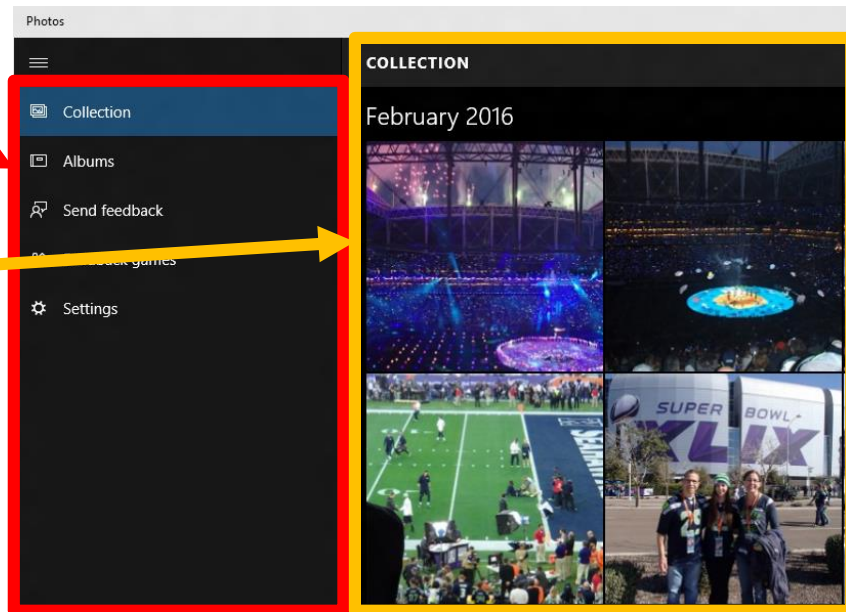
```
<SplitView.Pane>
```

```
<!-- Navigation Content Here -->
```

```
</SplitView.Pane>
```

```
<!-- Main Content Here -->
```

```
</SplitView>
```



# Demo

SplitView

# RelativePanel

Enables elements to layout relative to other elements

```
<Grid>  
  <Grid.ColumnDefinitions>  
    <ColumnDefinition Width="Auto"/>  
    <ColumnDefinition Width="*/>  
  </Grid.ColumnDefinitions>  
  <Image x:Name="img" .../>  
  <StackPanel Grid.Column="1" ...>  
    <TextBlock x:Name="title" .../>  
    <TextBlock x:Name="authors" .../>  
    <TextBlock x:Name="summary" .../>  
    <Button Content="Download" .../>  
  </StackPanel>  
</Grid>
```



## The Game

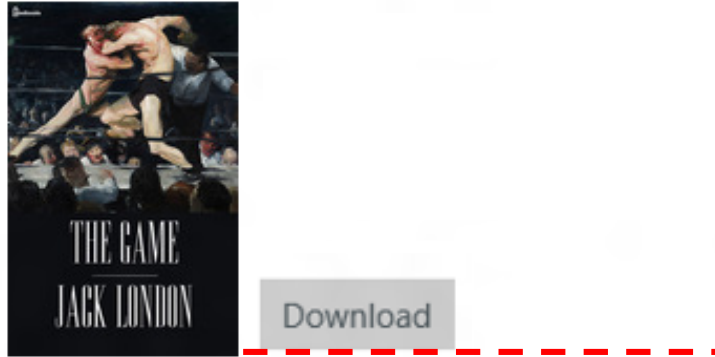
*Jack London*

On the eve of their wedding, twenty-year-old Liza Loxton has to choose between her fiancé and the prizefighter that pits her fair young love

Download

“Traditional” nested panel layout can be challenging for more complex layouts

# RelativePanel



```
<RelativePanel>  
  <Image x:Name="img" .../>  
  <TextBlock x:Name="title" RelativePanel.RightOf="img" RP.AlignTopWith="img" .../>  
  <TextBlock x:Name="authors" RP.RightOf="img" RP.Below="title" .../>  
  <TextBlock x:Name="summary" RP.RightOf="img" RP.Below="authors" .../>  
  <Button Content="Download" RP.RightOf="img" RP.AlignBottomWithPanel="True" .../>  
</RelativePanel>
```

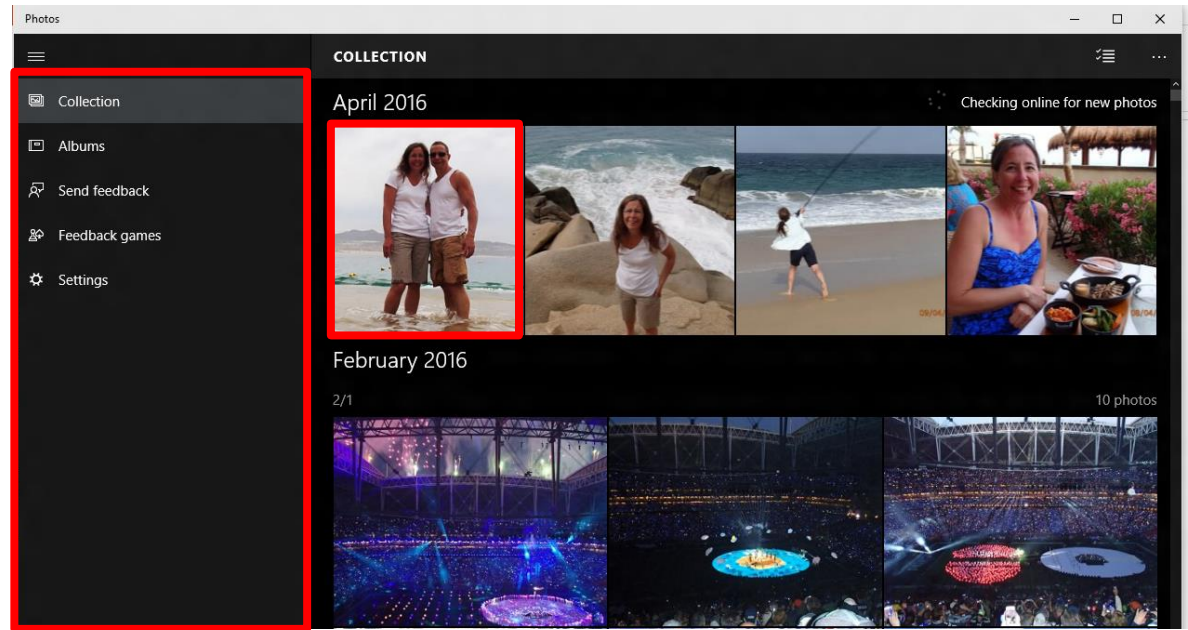
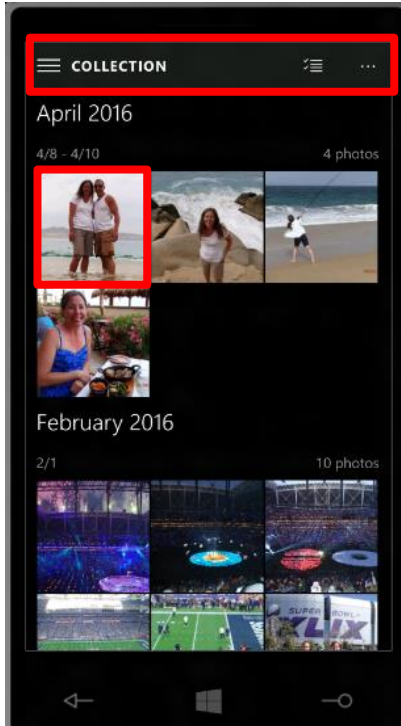
Note: RP triggers should be replaced with RelativePanel (shiver design for readability)

# Demo

RelativePanel

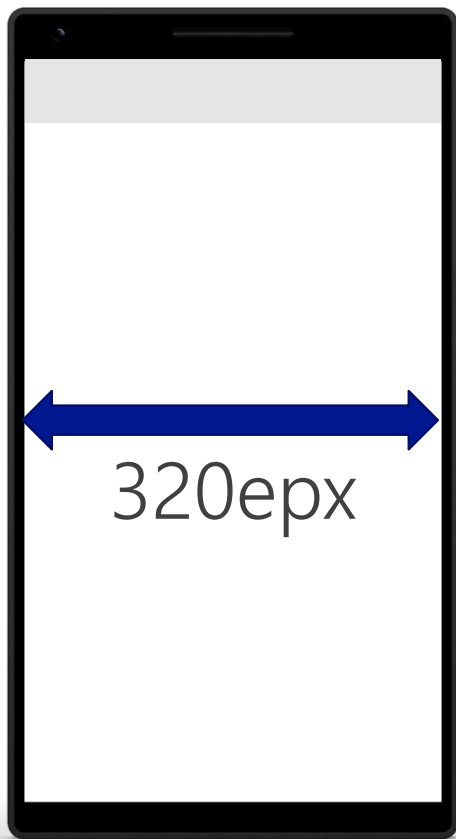
# Tailoring App Experiences

Typically via responsive pages or multiple views

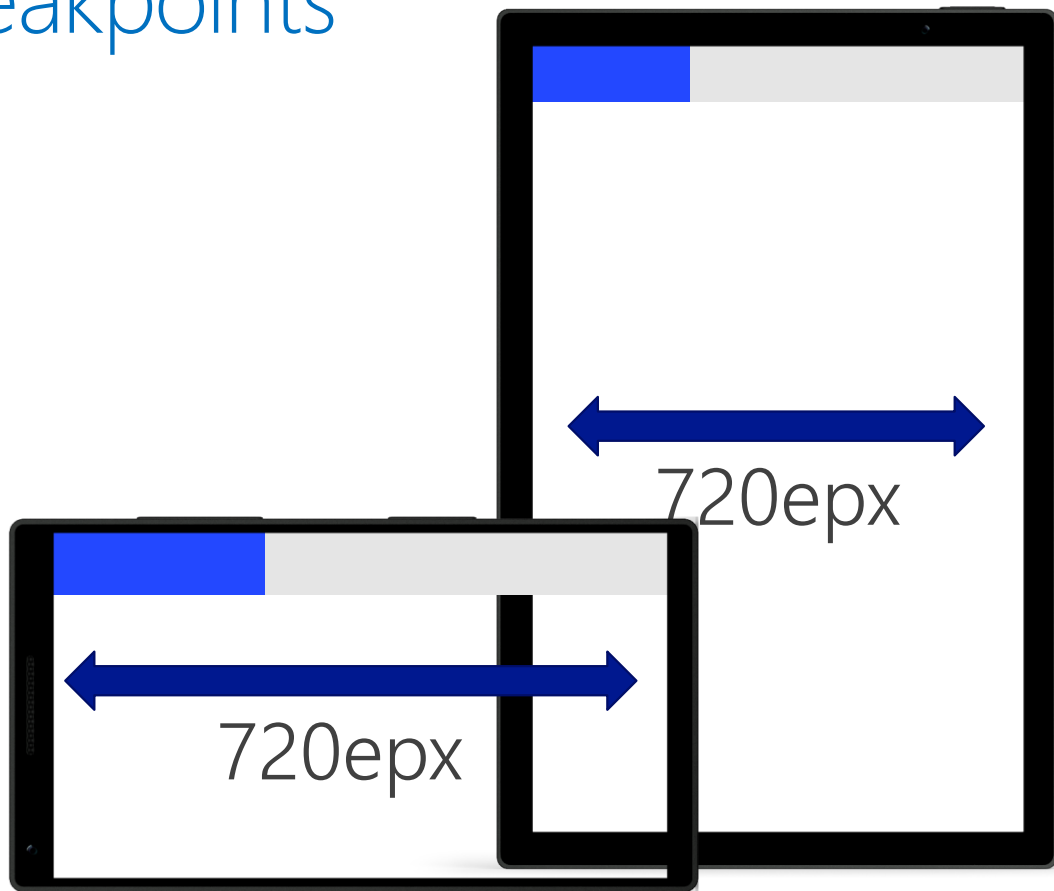


Windows 10 has new features to help with *responsive* designs

# Breakpoints

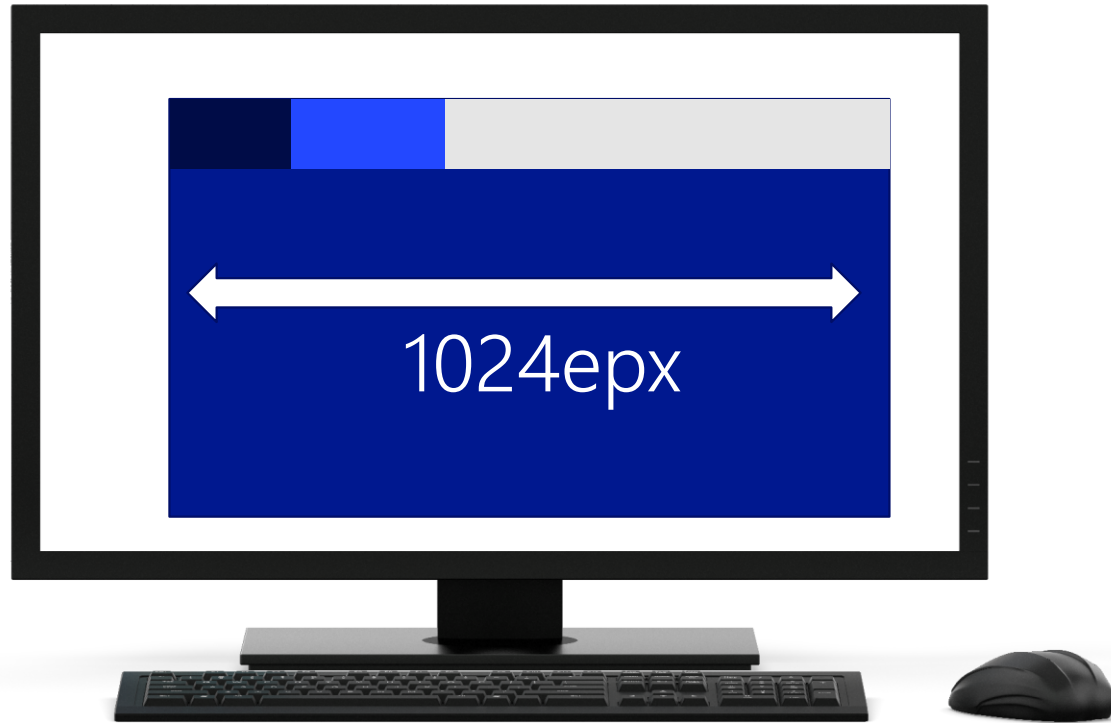


# Breakpoints





# Breakpoints



# Simplifying Responsive View Development

## Triggers and Setters (XAML equivalent of Media Queries)

```
<VisualState.Setters>
  <Setter Target="splitView.DisplayMode" Value="Inline" />
</VisualState.Setters>
<VisualState.StateTriggers>
  <AdaptiveTrigger MinWindowWidth="720" />
</VisualState.StateTriggers>

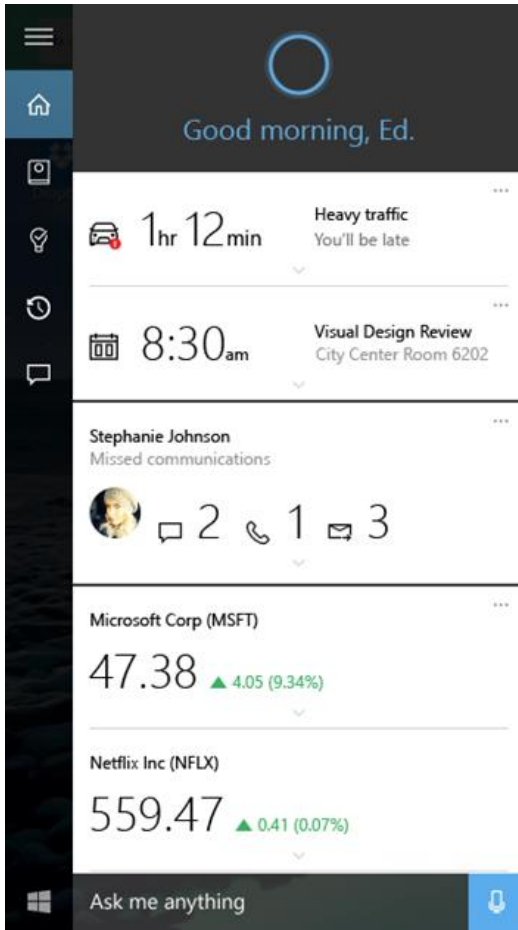
<VisualState.Setters>
  <Setter Target="splitView.DisplayMode" Value="Overlay" />
</VisualState.Setters>
<VisualState.StateTriggers>
  <AdaptiveTrigger MinWindowWidth= "0" />
</VisualState.StateTriggers>
```

If the Window width is  $\geq 720$  effective pixels, then show SplitView in Inline mode

# Demo

Adaptive UX via Triggers

# Cortana Developer Opportunity



- Differentiate your app with voice commands
- Delight your users with natural interactions
- Increase user engagement
- Increase productivity
- Increase discovery

# In-App Speech Recognition

- Check if the interaction was input through voice or text
- For voice, use Speech to continue the user interaction in the app
- Use `Windows.Media.SpeechSynthesis` APIs to talk to the user
- Use `Windows.Media.SpeechRecognition` for speech recognition

# Demo

Speech Api

# Summary

Our Goal: 1 Billion Customers on Windows 10

Universal Windows Platform: investing to bring the best value to Windows developers

Windows Store and Windows Store for Business

Welcoming all developers and building technologies so they can bring their existing code to Windows 10 and deliver great universal apps



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