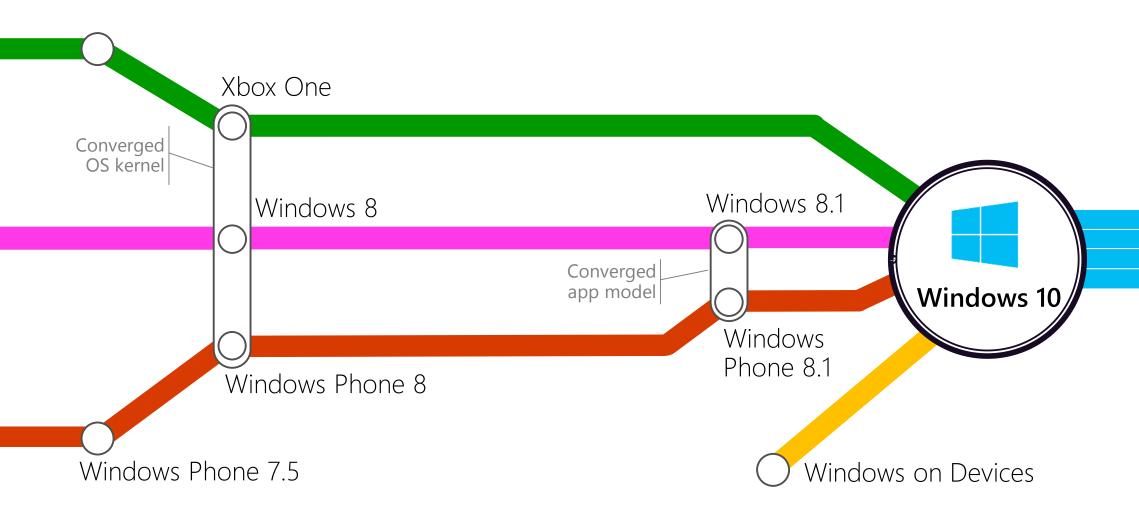
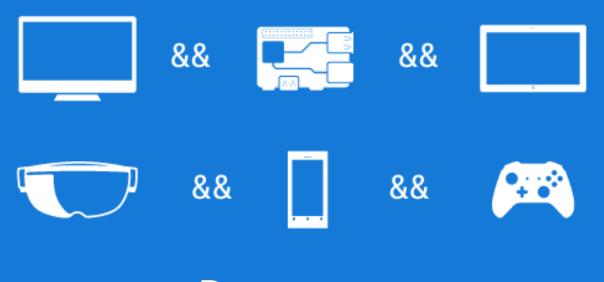




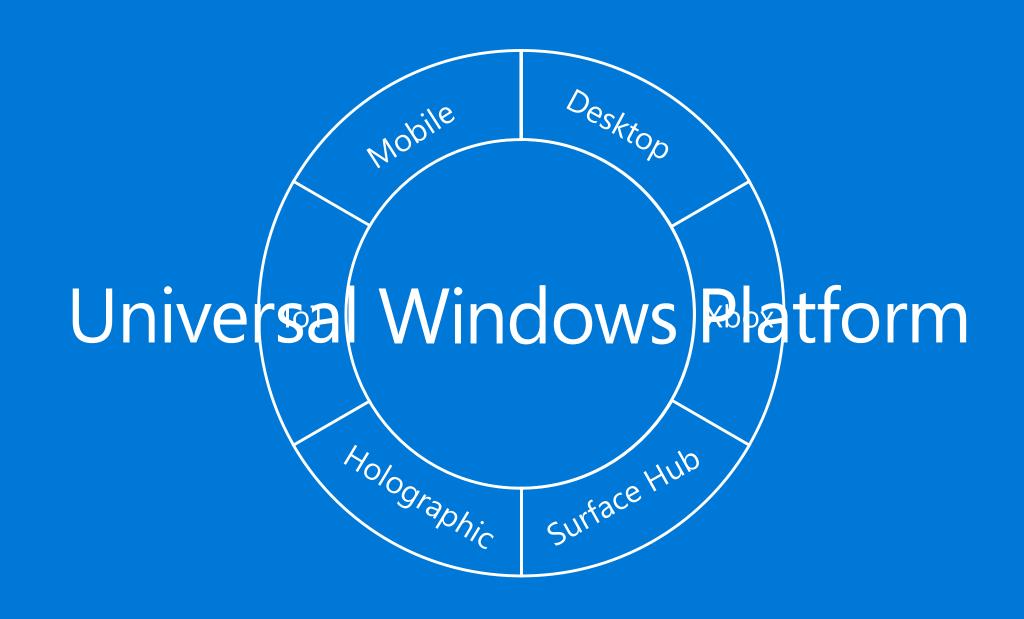
#### Convergence



#### Un code unique.



Pour tous.







**Universal Windows Platform** 

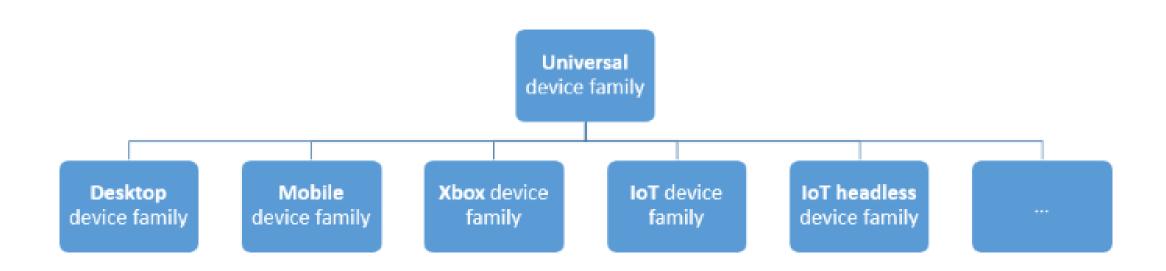
Web

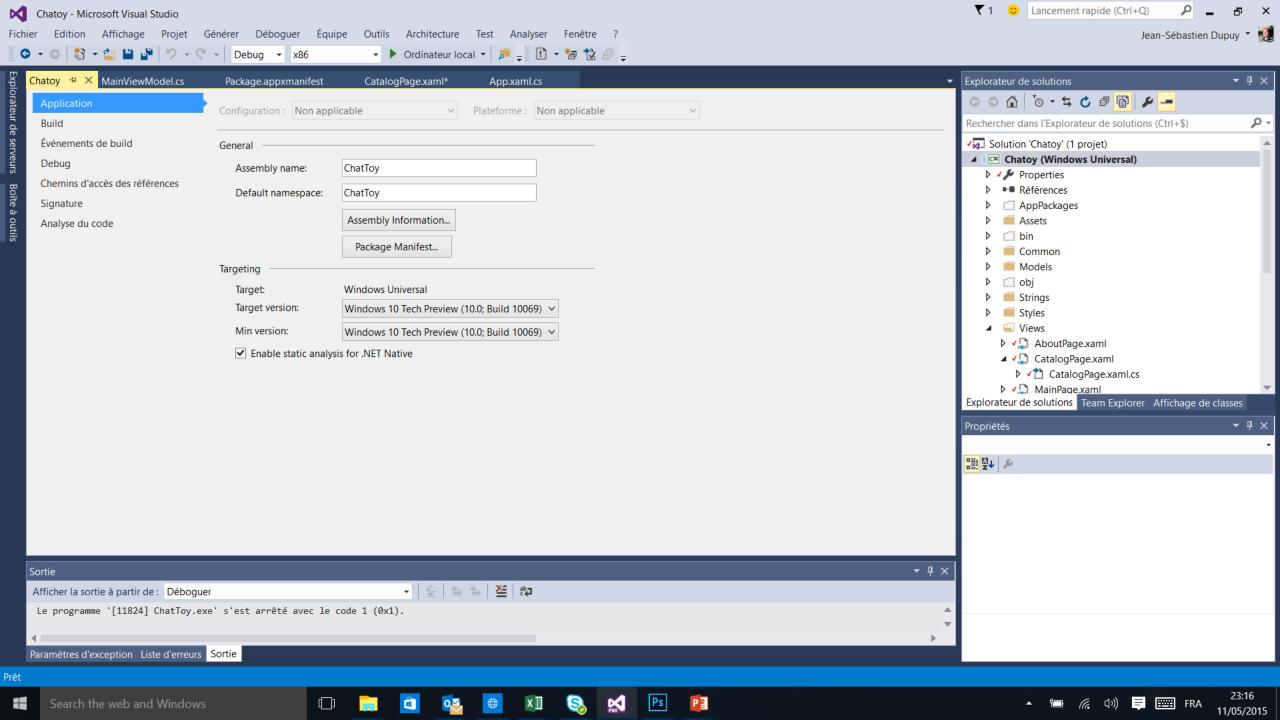
.NET & Win32

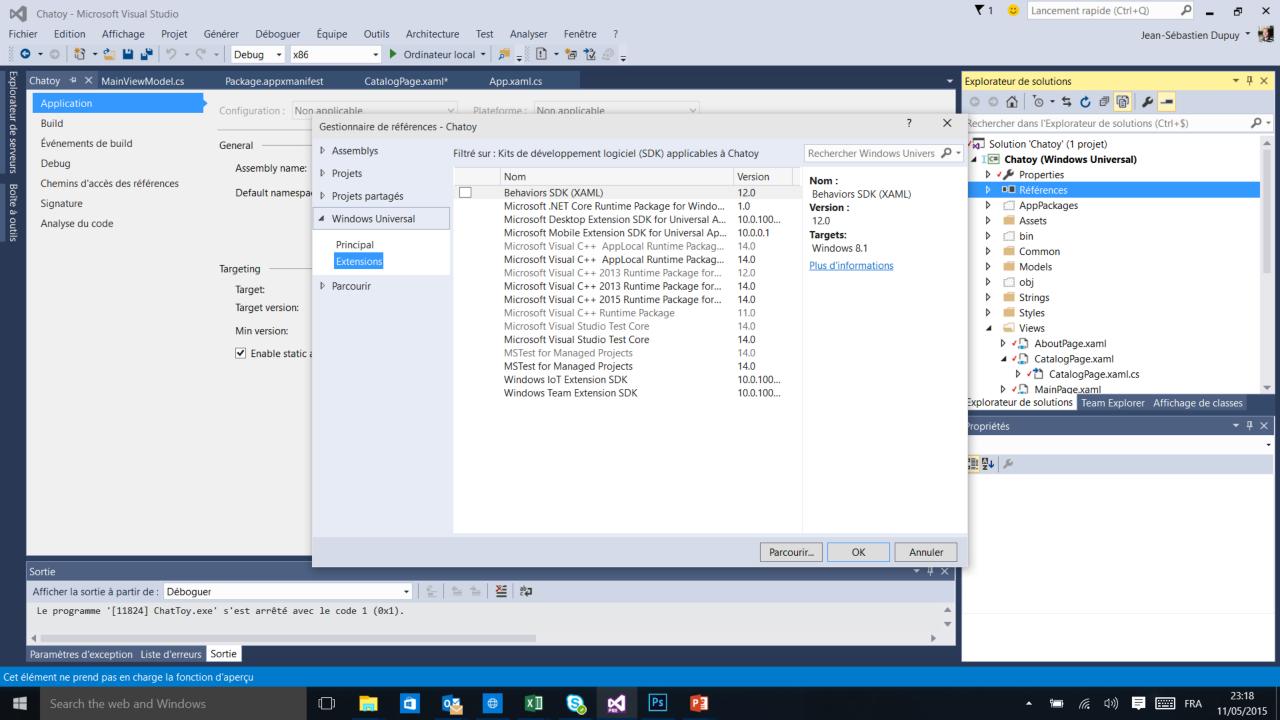
Android Java/C++ iOS Objective C



#### Plateforme

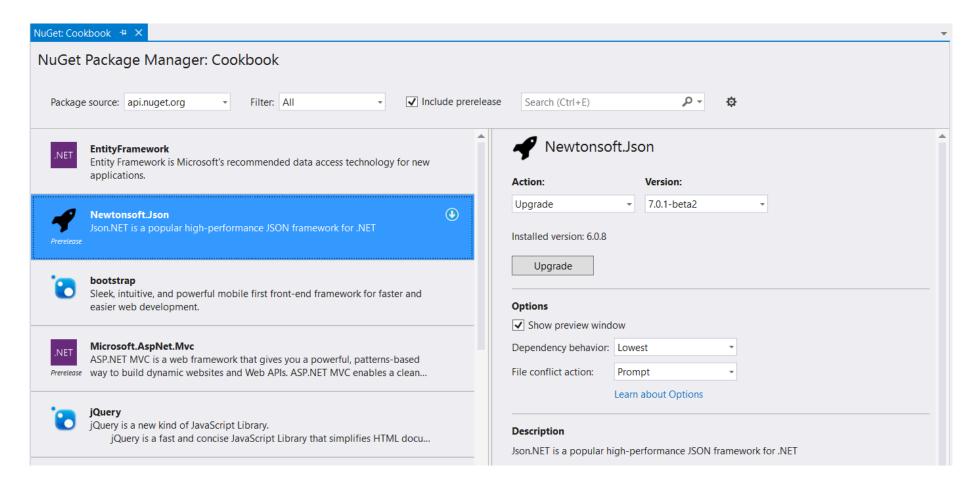






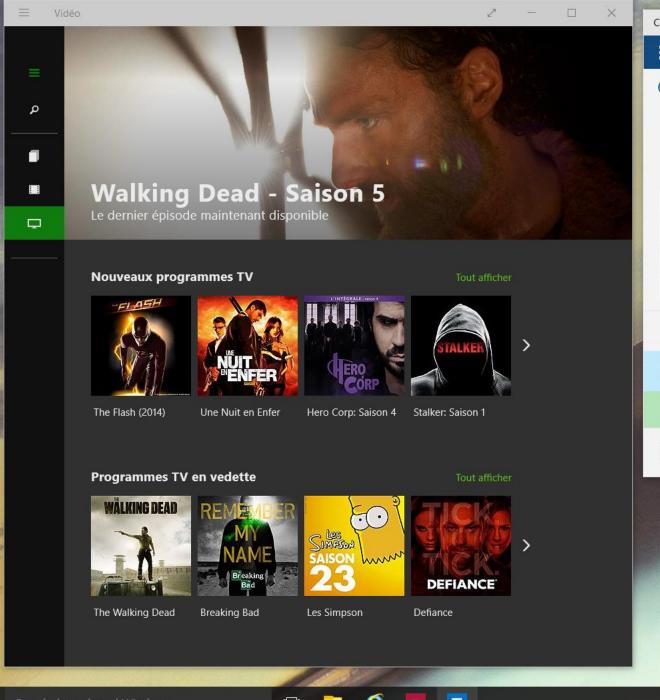
#### NuGet

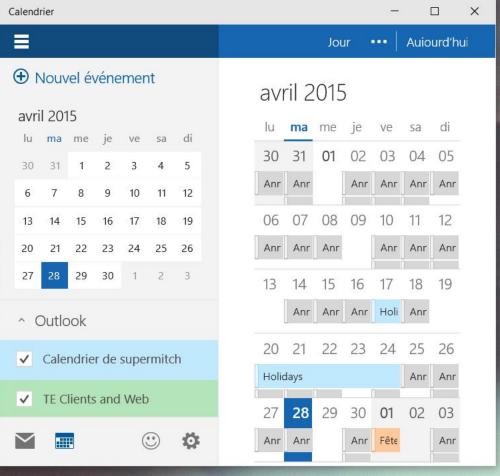
Universal Windows apps support referencing Windows 8.1 NuGet packages





#### Adaptative Design











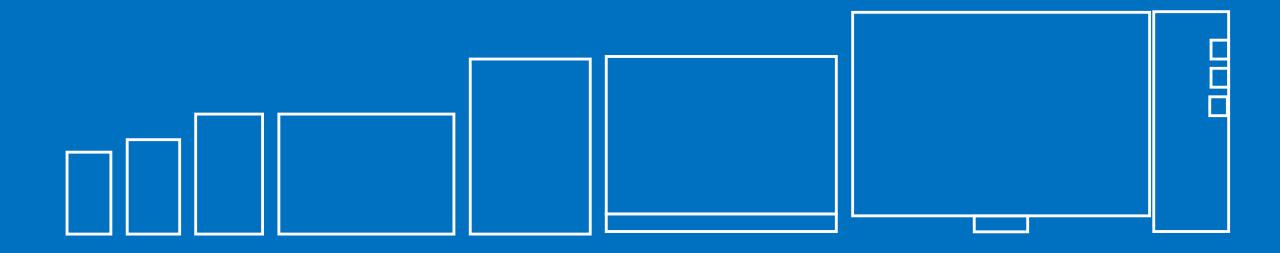




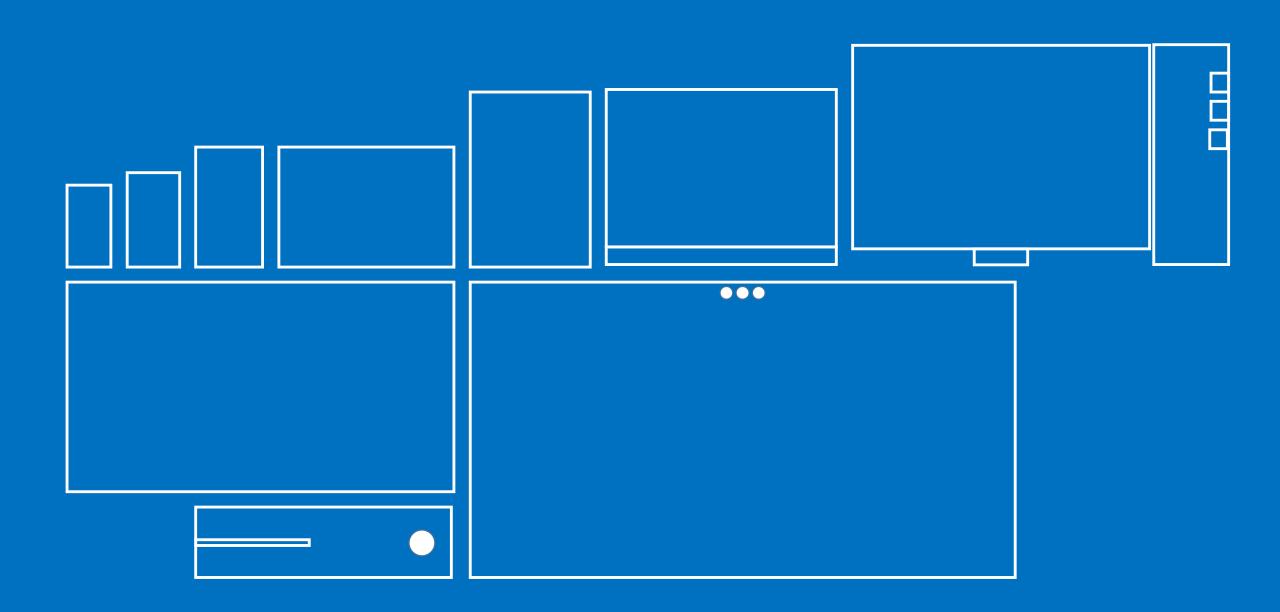








Les applications modernes s'exécutent sur tous les devices Windows 10



MenuFlyout mf = new MenuFlyout(); mf.ShowAt(sender, e.GetPosition(sender));



Reply

Reply all

Forward

Mark as unread

Delete

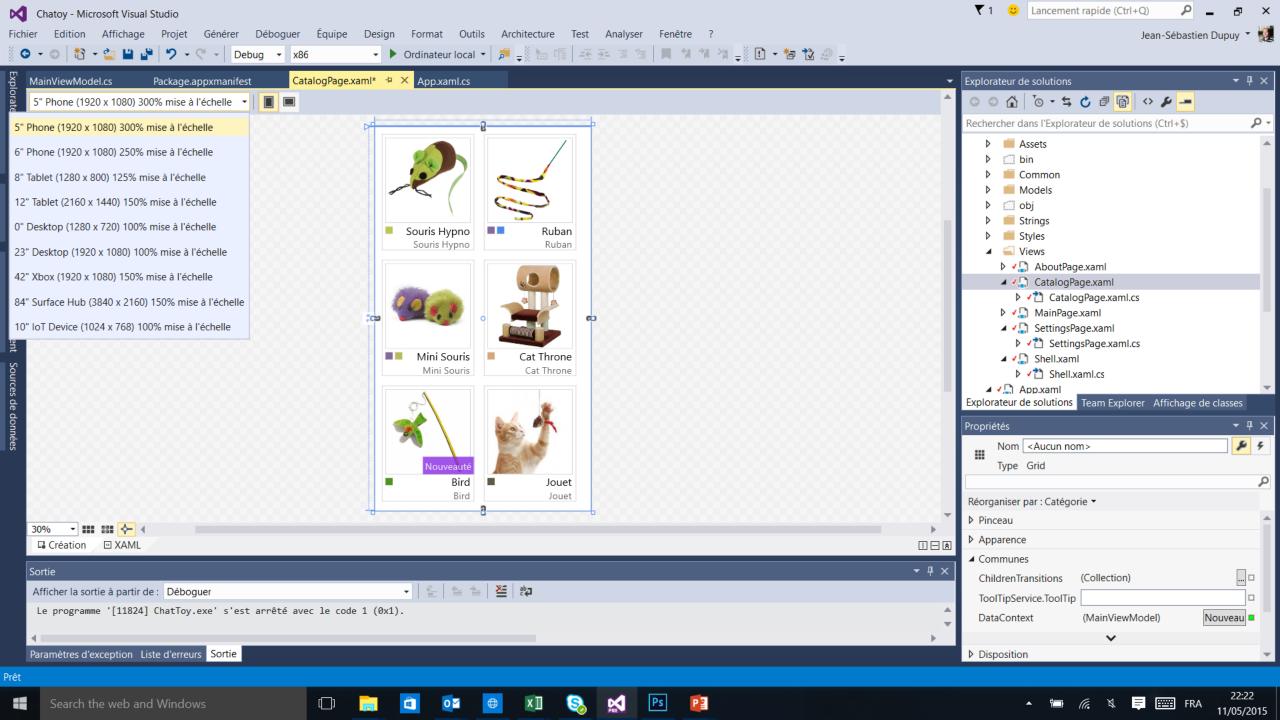
Reply

Reply all

Forward

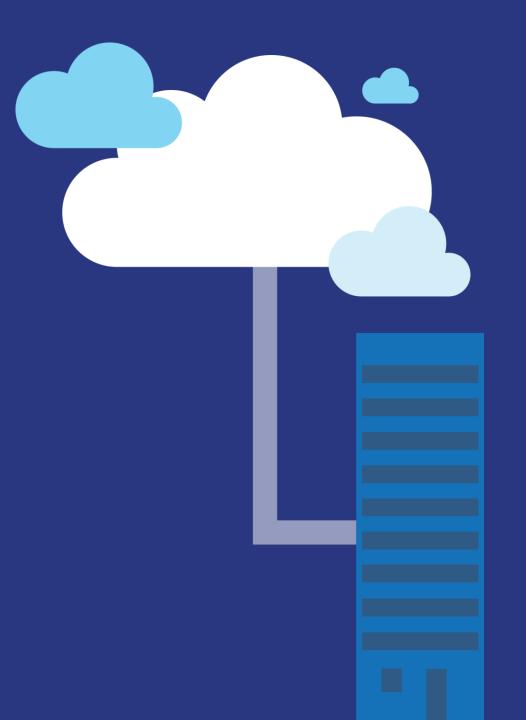
Mark as unread

Delete



## Demo

Adaptive Code & Design



#### SplitView Adaptive navigation pane

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

```
<SplitView.Pane>
                                                                              COLLECTION
        <!-- Navigation Content Here -->

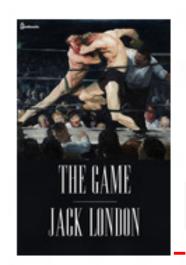
☑ Collection

                                                                              February 2016
        </SplitView.Pane>
                                                         Albums
                                                         & Send feedback
        <!-- Main Content Here -->
                                                          Settings
</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

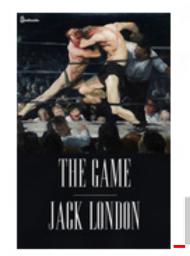
Jack London

On the eve of their wedding, twenty-year sweetheart to view her only rival: the "ga the prizefight that pits her fair young lov

Download

"Traditional" nested panel layout can be challenging for more complex layouts

#### RelativePanel



Download

```
<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>
```

Notewith Thiogramshand State explaned owith a delative Praspossive telesity for readability)

# 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 > = 720 effective pixels, then show SplitView in Inline mode

#### Vibration feedback example

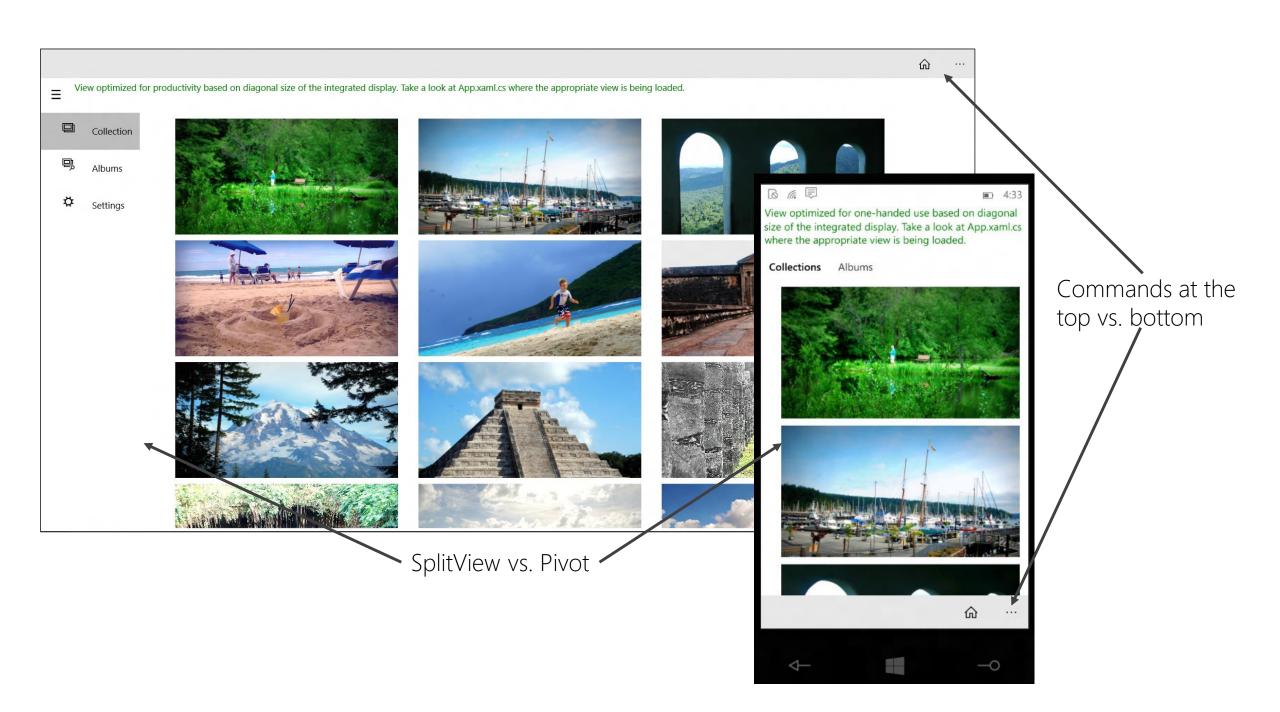
Note: The string for the type is always single-dotted notation, even for C++

#### Tailoring your view

- Decide what scenario drives the need
- Create unique views for those scenarios
- Load appropriate view on startup based on scenario

```
//Get the diagonal size of the integrated display
var dsc = new DisplaySizeHelper.DisplaySizeClass();
double _actualSizeInInches = dsc.GetDisplaySizeInInches();

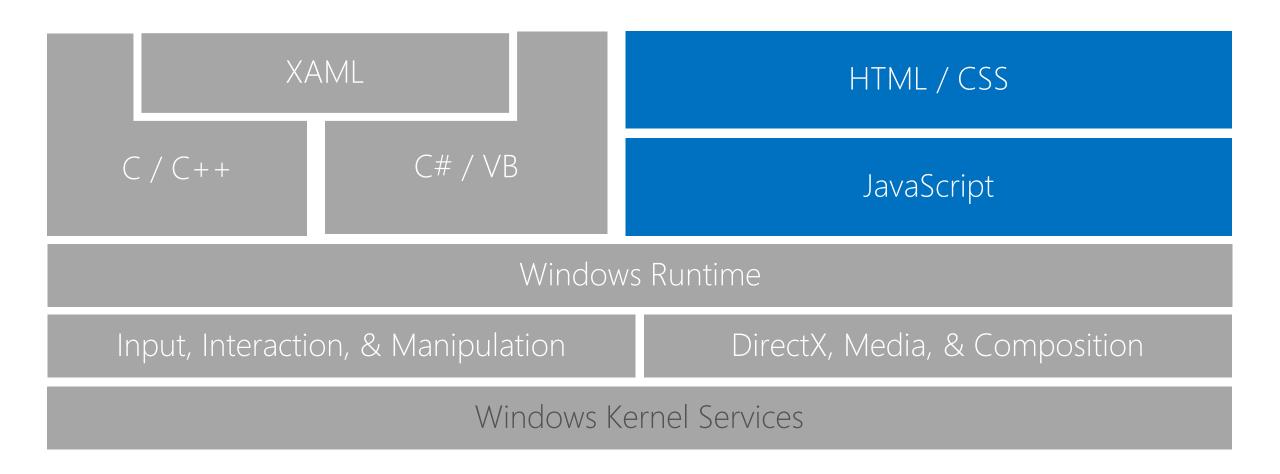
//Guidance: If the diagonal size is <= 7" use the OneHanded optimized view
if ( _actualSizeInInches >0 && _actualSizeInInches <= ONEHANDEDSIZE)
{
    rootFrame.Navigate(typeof(MainPage_OneHanded), e.Arguments);
}
    else
{
    rootFrame.Navigate(typeof(MainPage), e.Arguments);
}</pre>
```





### HTML / JavaScript

#### HTML / JavaScript dans l'univers Windows





- Un framework JavaScript Open Source
- Pour le web (et pas que pour un navigateur)
- Fonctionne avec les applications HTML/JS dans Windows
- Puissance des UWA avec la souplesse du web
- Compatible avec les autres frameworks

## Demo

Démo HTML/JS, WinJS et les Universal Windows Apps

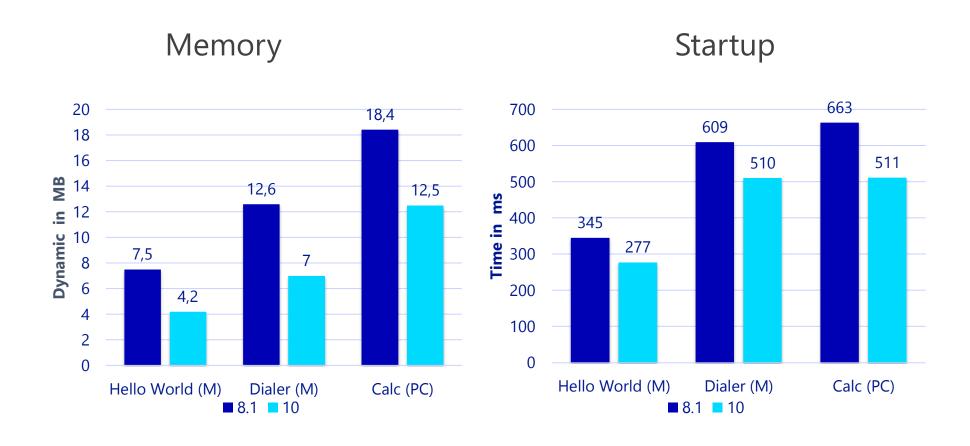




#### Performance

#### Universal Windows app Performance

Notable performance gains when moving to UWP



<u>CPU</u> - 15% to 30% <u>Working Set</u> - 25% to 45%

# Demo

Performance (x:Bind et x:Phase)



# Notable New Performance Features Compiled Bindings AKA (x:Bind): Like (Binding), only they go to 11

```
<ListView>
  <ListView.ItemTemplate>
    <DataTemplate x:DataType="local:FreeBookCategory">
      <StackPanel>
        <SymbolIcon Symbol="{x:Bind Symbol}"/>
        <TextBlock Text="{x:Bind Name}"/>
        <Button Click="{x:Bind Click}"/>
      </StackPanel>
    </DataTemplate>
  </ListView.ItemTemplate>
</ListView>
```

Resolved at compile time and produce compiler errors.

#### x:Phase – progressive rendering for list items

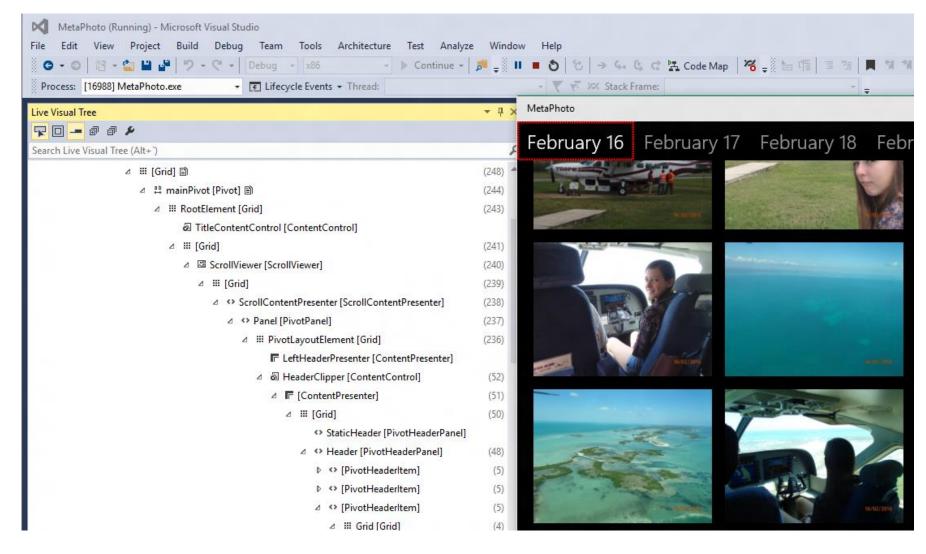
Windows 8.1 introduced ContainerContentChanging Event

- Enables progressive rendering of list items
- Required code to update template which precluded use of binding

x:Phase enables declarative support for phased rendering

Implicit x:Phase="0" as no phase is specified

#### Visual Studio Visual Tree Inspector (prochainement)

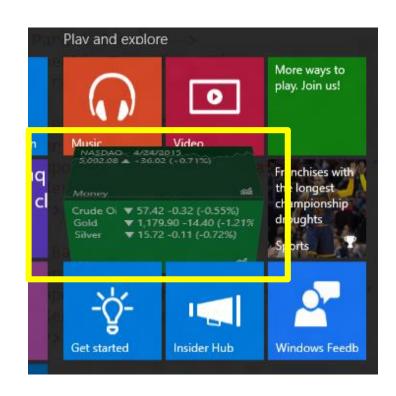




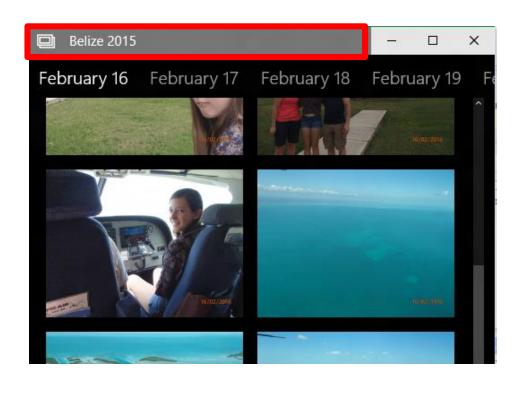
#### Nouveautés

### PerspectiveTransform3D Composable 3D Transforms (Effects: 3D Rotations, Parallax)

```
<Grid>
  <Grid.Transform3D>
    <!- Parent Camera -->
    <PerspectiveTransform3D/>
  </Grid.Transform3D>
  <Border Background="#FF7F00">
    <Border.Transform3D>
      <CompositeTransform3D RotationX="-90 " .../>
    </Border.Transform3D>
  </Border>
  <Border Background="#FF6700">
    <Border.Transform3D>
      <CompositeTransform3D RotationY="-90" .../>
    </Border.Transform3D>
  </Border>
</Grid>
```



# Windowing Custom chrome, branding, sizing



```
// Remove Standard Title Bar
CoreApplication.GetCurrentView().TitleBar.ExtendViewIntoTitleBar = true;
// Indicate Custom App UI to use as the TitleBar (for move, resize)
Window.Current.SetTitleBar(customTitleBar);
```

### Ink Canvas

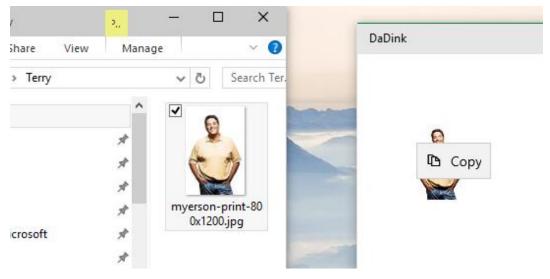
Palm rejection, smoothing, high fidelity

```
<Grid>
  <!-- It's this simple -->
  <InkCanvas/>
</Grid>
```



# Drag and Drop Extended for "Windowed" Apps

```
<!-- XAML -->
<Grid AllowDrop="True" DragOver="Do_DragOver" Drop="Do_Drop" ...>
...
</Grid>
```

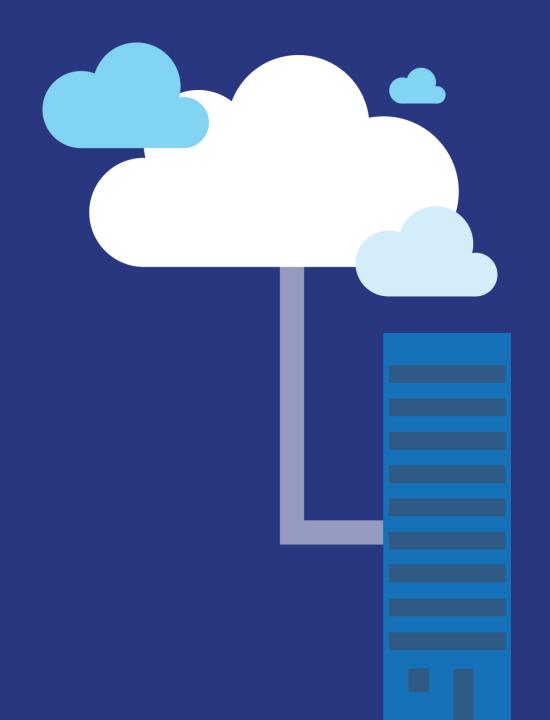


File Explorer

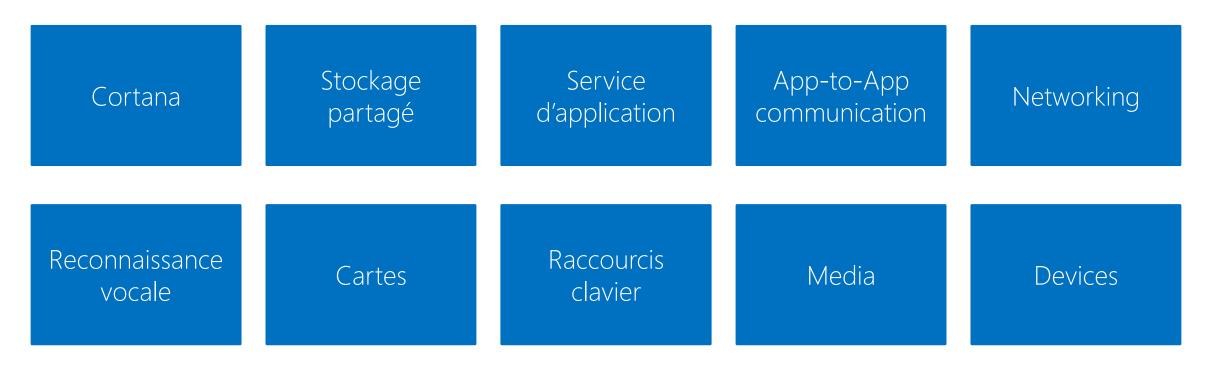
My App

# Demo

Nouveautés



### Nouveautés



(et plein d'autres)

https://dev.windows.com/fr-fr/getstarted/whats-new-windows-10



IoT

### Windows 10 IoT Editions

#### Windows 10 IoT for industry devices

Desktop Shell, Win32 apps, Universal apps and drivers Minimum: 1 GB RAM, 16 GB storage X86/x64

#### Windows 10 IoT for mobile devices

Modern Shell, Mobile apps, Universal apps and drivers Minimum: 512 MB RAM, 4 GB storage ARM

#### **Windows 10 IoT Core**

Universal Apps and Drivers
No shell or MS apps
Minimum: 256MB RAM, 2GB storage
X86/x64 or ARM





Windows Updates



Visual Studio & UWP



New User Interfaces





Security & Identity



Integrated Device Connectivity



Microsoft Azure IoT





### Raspberry Pi II

Device name

minwinpc

Network

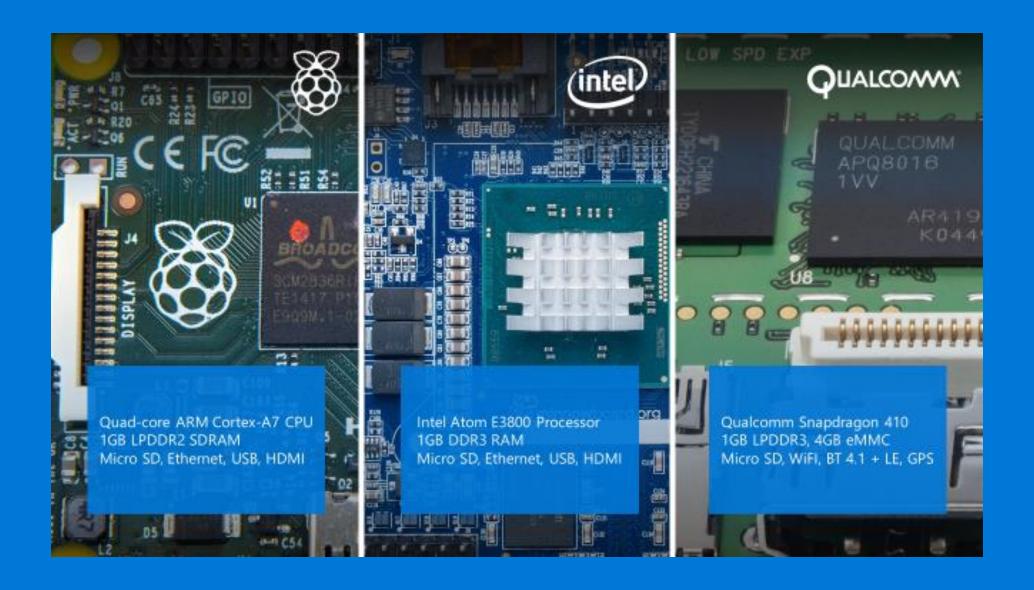
Ethernet

IP address

10.125.152.164

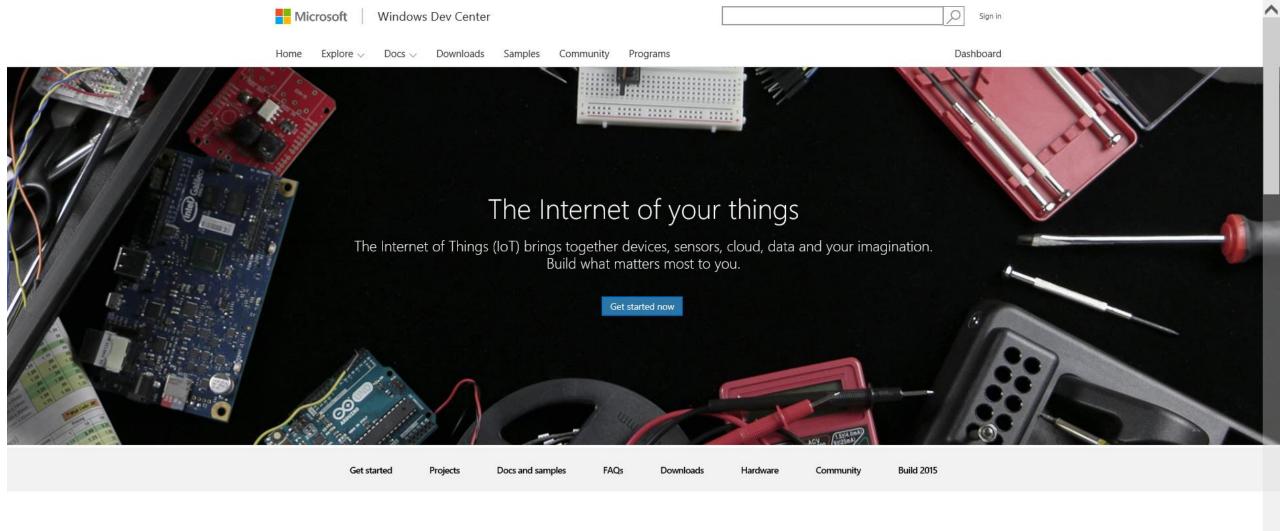
Visit windowsondevices.com to start developing





## disponible gratuitement sur Raspberry Pi 2 et Minnowboard Max

Windows 10 IoT Core Insider Preview www.windowsondevices.com





#### Windows IoT device

Rapidly prototype and build your Windows IoT solutions on a variety of devices running Windows 10 IoT Core. Windows 10 gives you powerful tools that let you develop fast and deploy to your device.



#### Device connectivity

Leverage the power of open frameworks like Connectthe-Dots to help connect your devices to Microsoft Azure. Microsoft Azure allows you to implement great solutions by leveraging advanced analytics services.

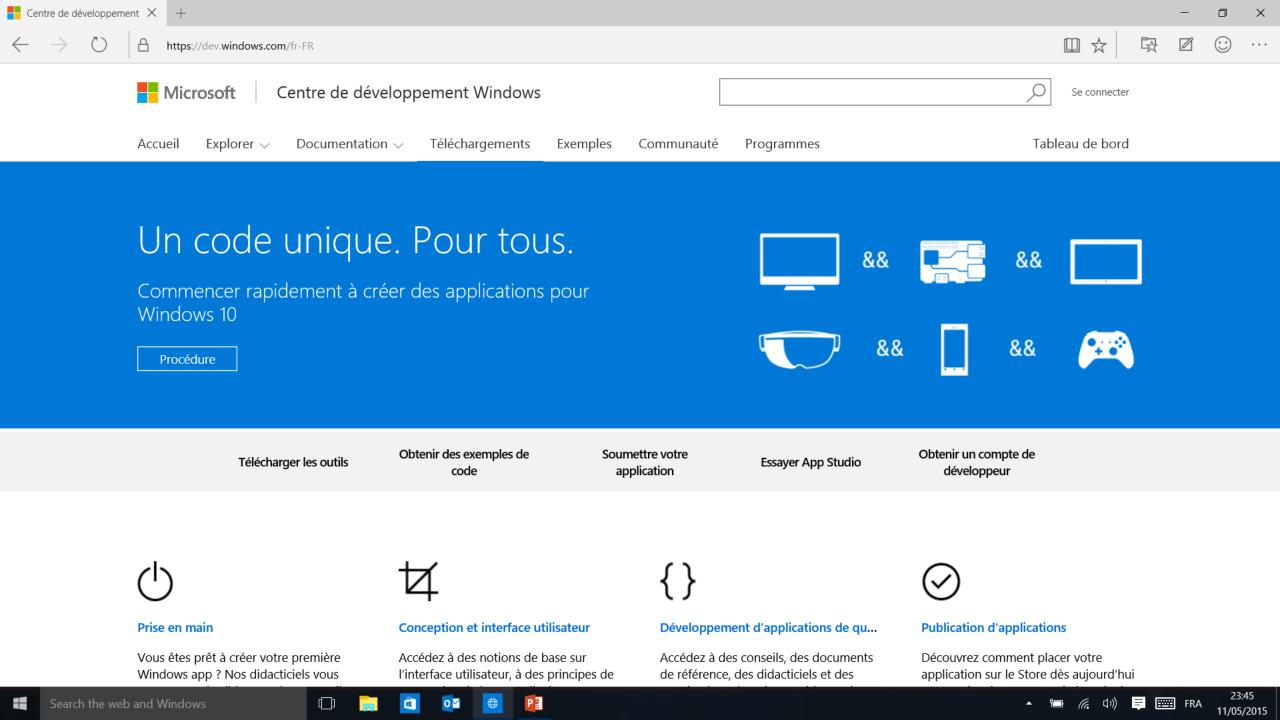


#### Maker community

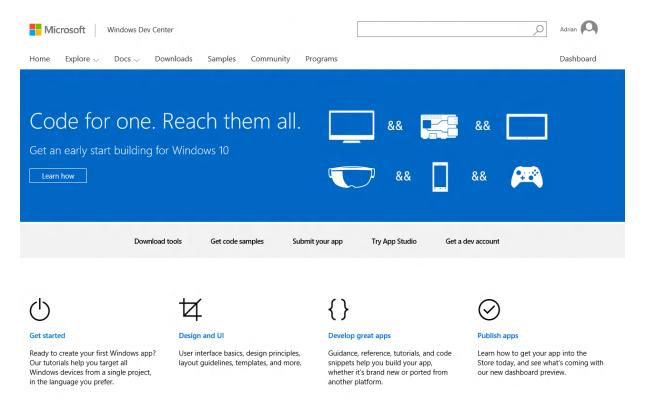
Connect with other makers to share code and make contributions through GitHub. Join the community to influence future releases of the SDK.



### Dev Center



# Introducing One Windows Dev Center



One destination for supporting all Windows platforms

- ✓ One registration
- ✓ One app submission
- ✓ Customer acquisition
- ✓ Customer engagement
- ✓ Powerful monetization
- ✓ Rich analytics
- ✓ One payout

Preview available now!

## One registration



Microsoft Advertising ready

Simplified tax registration

Multi user accounts and roles

### Store certification



Your app will be released on your request. Change release date

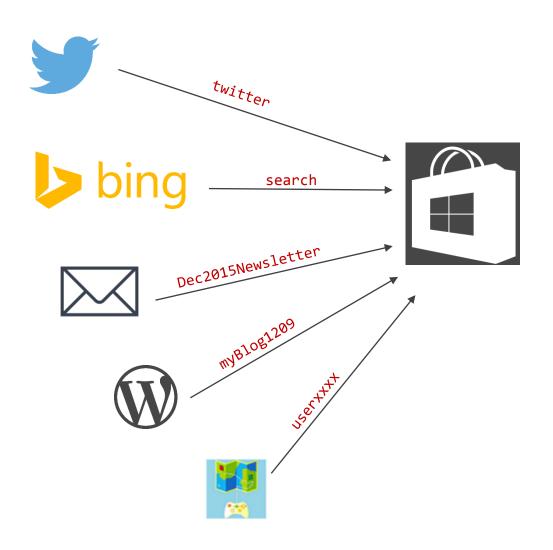
Review submission

One set of Store Certification policies

Windows-Age Ratings required for all applications

Quick Turnaround time

# Customer acquisition



Promote your apps

- ✓ Campaigns
- ✓ House ads
- ✓ App install ads

Promotional codes

Channels and conversions report

# Customer engagement

Rocks!



Love this app, so much fun. It's running on all my devices, I use it wherever I go! Keep up the good work!

#### Love the concept



I appreciate the effort that went into this app. The user experience is clean and simple, and it's fast. I'm only giving it 4 out of 5 stars because it doesn't actually do anything useful.

### Assess

- ✓ Trend analysis
- ✓ Auto translated reviews

### Engage

✓ Public and Private response

## Introducing the store affiliate program



Cross-sell physical and digital goods from your apps

Earn a 7% commission on apps, games, music, movies and videos

Generous attribution window

✓ In-app purchases: 14 days!✓ Subscriptions: 6 months of renewals!

✓ Paid downloads: 24 hours

Watch the channel 9 video for more details

Sign-up today: <u>aka.ms/MicrosoftAffiliates</u>

