

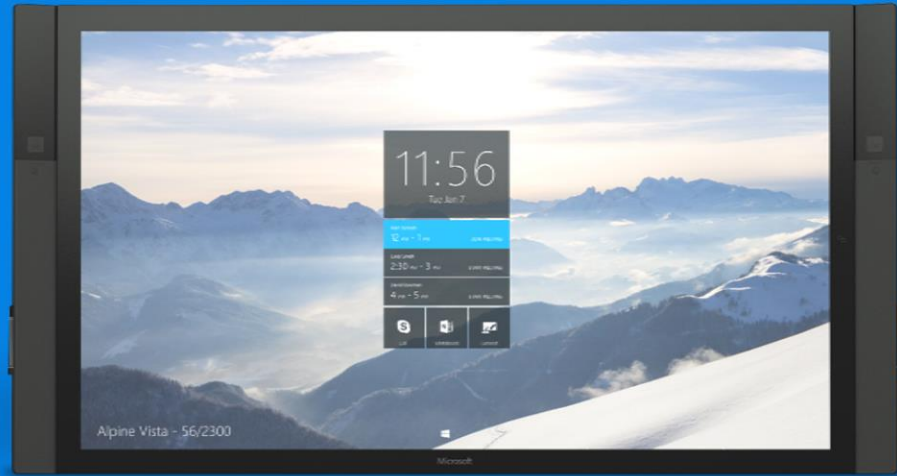
The background is a gradient of dark blue and purple, speckled with small white dots. Overlaid on this are several faint, white circular patterns. A large circular scale with degree markings from 140 to 260 is prominent on the left side. Other smaller circles with arrows indicating clockwise or counter-clockwise rotation are scattered across the image.

# BUILDING APPS WITH THE UNIVERSAL WINDOWS PLATFORM

Hi, my name is  
Brent

Kansas City  
.net  
USER GROUP





 Windows 10



WHAT IS THE UNIVERSAL  
WINDOWS PLATFORM?

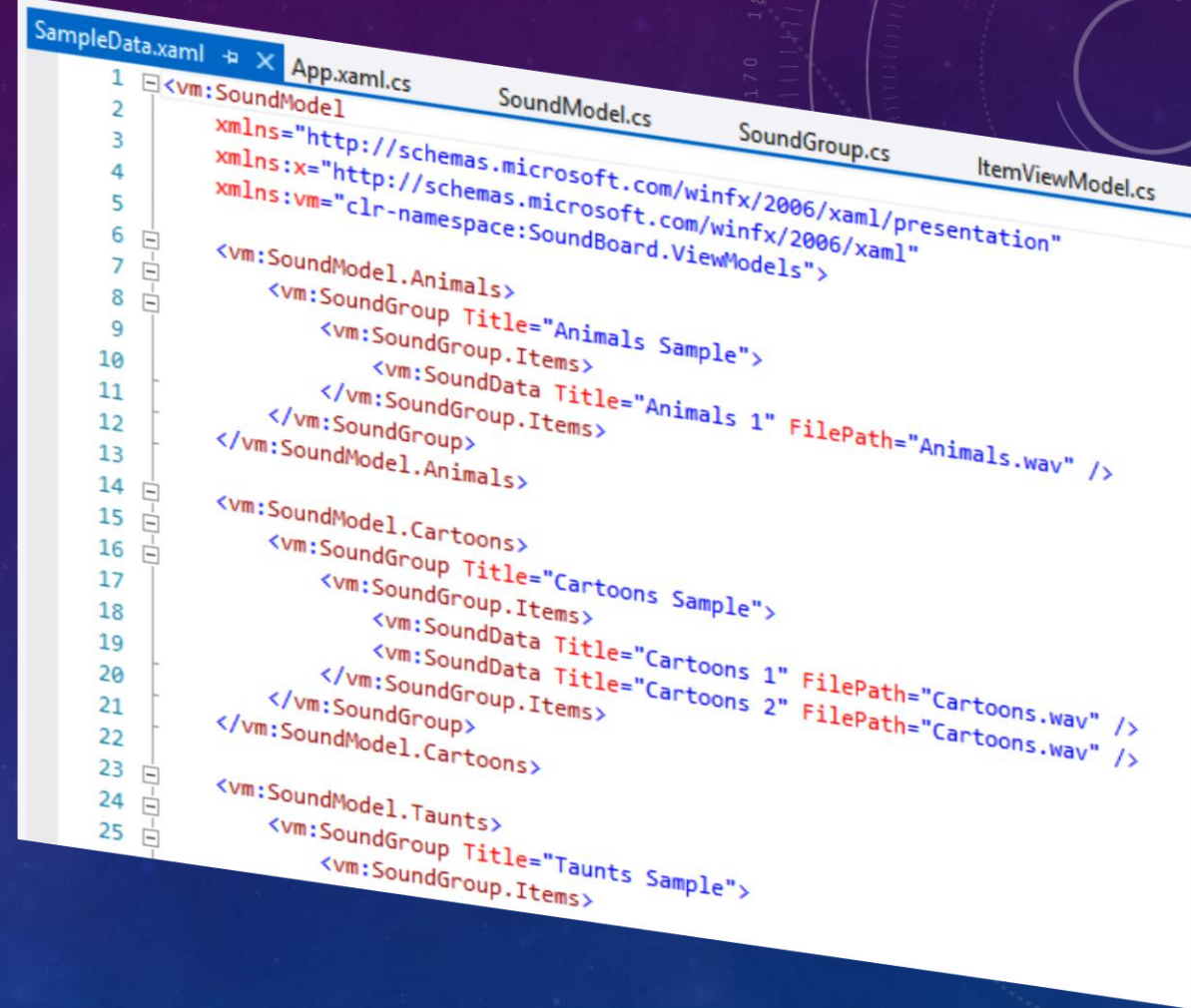




# WHY UWP?

- Better touchscreen integration
- Distribute via the windows app store
- Single app can run across multiple device families
- Platform Life Expectancy
- 350+ Million devices running Windows 10

# MEET YOUR NEW BEST FRIEND XAML



```
1 <vm:SoundModel
2   xmlns="http://schemas.microsoft.com/winfx/2006/xaml/presentation"
3   xmlns:x="http://schemas.microsoft.com/winfx/2006/xaml"
4   xmlns:vm="clr-namespace:SoundBoard.ViewModels">
5
6   <vm:SoundModel.Animals>
7     <vm:SoundGroup Title="Animals Sample">
8       <vm:SoundGroup.Items>
9         <vm:SoundData Title="Animals 1" FilePath="Animals.wav" />
10      </vm:SoundGroup.Items>
11    </vm:SoundGroup>
12  </vm:SoundModel.Animals>
13
14  <vm:SoundModel.Cartoons>
15    <vm:SoundGroup Title="Cartoons Sample">
16      <vm:SoundGroup.Items>
17        <vm:SoundData Title="Cartoons 1" FilePath="Cartoons.wav" />
18        <vm:SoundData Title="Cartoons 2" FilePath="Cartoons.wav" />
19      </vm:SoundGroup.Items>
20    </vm:SoundGroup>
21  </vm:SoundModel.Cartoons>
22
23  <vm:SoundModel.Taunts>
24    <vm:SoundGroup Title="Taunts Sample">
25      <vm:SoundGroup.Items>
```

DEMO TIME

# CHECKING DEVICE CAPABILITIES

Use the **Windows.Foundation.Metadata.ApiInformation** Class

Example:

```
if (Windows.Foundation.Metadata.ApiInformation.IsTypePresent("Windows.Phone.UI.Input.HardwareButtons"))
{
    Windows.Phone.UI.Input.HardwareButtons.CameraPressed += CameraButtonPressed;
}
```



# RUNNING BACKGROUND TASKS

Must be a separate Windows Runtime Component

## Triggers

- Timer (Limited to once every two hours and limited to 1 second of CPU time\*)
- Network Changes
- SMS
- Time Zone Change
- Battery Status
- And more...



# OTHER NOTABLE UWP FEATURES

- Toast Notifications
- Cortana Integration
- Live Tiles
- Local Storage Access

# SUBMITTING TO THE STORE

- Register for a developer account at [developer.Microsoft.com](https://developer.microsoft.com)
  - \$19 for individuals
  - \$99 for company
- Create image resources
- Grab screen shots
- Author descriptions for the app
- Create a privacy policy
- Upload packages and configure app (price, categories, age restrictions, etc...)
- Profit
- **Send thank you gift to the speaker who inspired you!**





# THANK YOU

@BRENTSTEWART  
[ABOUT.ME/BRENTSTEWART](https://about.me/brentstewart)