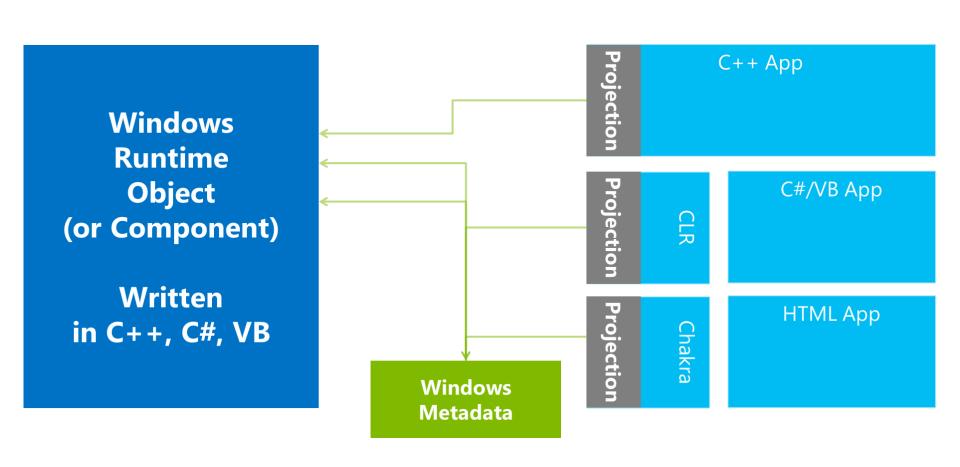
# Javascript as language for native apps?

Štěpán Bechynský Windows 8 Champ Microsoft

## Language Projections



#### HTML5 Support

**CSS 2D Transforms** 

**CSS 3D Transforms** 

**CSS Animations** 

**CSS Backgrounds & Borders** 

CSS Color

**CSS Flexbox** 

**CSS Fonts** 

**CSS Grid Alignment** 

**CSS Hyphenation** 

**CSS Image Values (Gradients)** 

**CSS Media Queries** 

**CSS multi-column Layout** 

**CSS Namespaces** 

**CSS OM Views** 

**CSS Positioned Floats** 

(Exclusions)

**CSS Selectors** 

**CSS Transitions** 

**CSS Values and Units** 

Data URI

**DOM Element Traversal** 

DOM HTML

DOM Level 3 Core

**DOM Level 3 Events** 

DOM Style

**DOM Traversal and Range** 

DOMParser and XMLSerializer

ECMAScript 5

File APIs

**FormData** 

**HTML5 Application Cache** 

HTML5 async

**HTML5 Canvas** 

**HTML5** Drag and drop

**HTML5 Forms and Validation** 

**HTML5** Geolocation

**HTML5 History API** 

**HTML5** Parser

**HTML5 Sandbox** 

HTML5 Selection

HTML5 semantic elements

HTML5 video and audio

**ICC Color Profiles** 

**IndexedDB** 

**Page Visibility** 

Pointer (Mouse, Pen, and Touch)

**Events** 

Selectors API Level 2

**Filter Effects** 

SVG, standalone and in HTML

Timing callbacks

Web Messaging

**Web Sockets** 

**Web Workers** 

XHTML/XML

XMLHttpRequest (Level 2)

## Windows Library for JavaScript (WinJS)

Helpers for Namespaces, Constructor Definition Data binding

Controls

**Promises** 

**Animations** 

App Model

**Templates** 

Navigation

**Utilities** 

Page & User controls

Default CSS Styles

## Prefer your own library?

- Adhere to the New UI and Windows personality
- Understand our webcontext & sandboxing model
- Mix & match works fine

jQuery UI

#### **Built-in Controls**

- Implement New UI principles and personality
- Designed for touch, mouse, and keyboard
- Native to HTML
- Native to XAML

## Toggle Switch (HTML)

## Toggle Switch (XAML)

```
XAML:

<ToggleSwitch
    Header="Wi-fi networking"
    x:Name="MyToggle"

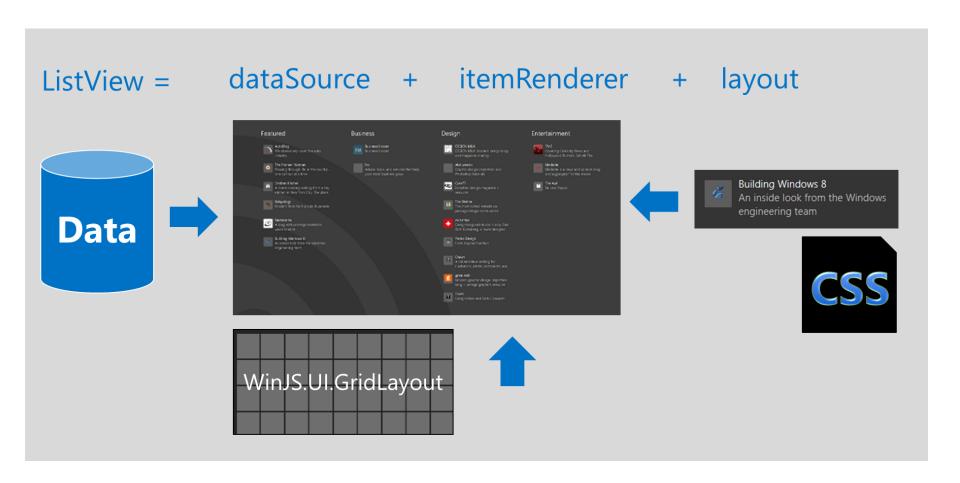
/>

C#:

MyToggle.Toggled += new RoutedEventHandler(ToggleWifi);
```

**Build-in Controls** 

#### ListView



#### ListView

ListView

#### Tiles and Live Tiles

- Tap on tile to launch or switch to an app
- Static default tile specified in app manifest
- Two sizes
  - Square: 150 x 150
  - Wide: 310 x 150
- Both sizes can have live updates
- Tiles updated using pre-defined templates
- Local or cloud updates

Live Tiles

## Working With Sensors

- Windows Runtime give you access to hardware
- Webcam
- GPS
- NFC
- Accelerometer
- Gyroscope

Webcam