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Windows Store apps can be built using standards-based HTML, CSS, and JavaScript.





Windows Store apps using JavaScript support most HTML5 features, such as the canvas, SVG, video, and audio elements. They also support most Cascading Style Sheets, Level 3 (CSS3) features, such as 2D transforms, 3D transforms, transitions, and animations.

In general, writing HTML for a Windows Store app using JavaScript is a lot like writing HTML for Internet Explorer 10 running in <u>standards mode</u>.







IE10 Trident + Chakra

CSS 2D Transforms

CSS 3D Transforms

CSS Animations

CSS Backgrounds & Borders

CSS Color

CSS Flexbox

CSS Fonts

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 Flement Traversal

DOM HTML

DOM Level 3 Core

DOM Level 3 Events

DOM Style

DOM Traversal and Range

DOMParser and XMLSerializer

ECMAScript 5 (Dec 2009)

File Reader API

File Saving

Form Data

HTML5 Application Cache

HTML5 async

HTML5 BlobBuilder

HTML5 Canvas

HTML5 Drag and drop

HTML5 Forms and Validation

HTML5 Geolocation

HTML5 History API

HTML5 Parser

HTML5 Selection

HTML5 semantic elements

HTML5 track

HTML5 video and audio

JavaScript Typed Array
ICC Color Profiles

IndexedDB

Page Visibility

Pointer (Mouse, Pen, and Touch) Events

RequestAnimationFrame

Navigation Timing

Selectors API Level 2

SVG Filter Effects

SVG, standalone and in HTML

Web Messaging

Web Sockets

Web Workers

XHTML/XML

XMLHttpRequest (Level 2)

XMLHttpRequest CORS



If you can build a Windows Store app using standards-based HTML, CSS, and JavaScript...

...can you use your skills?

...can you reuse your existing code?

...can you use popular frameworks?

QUESTIONS?







Application Model

Navigation

OS Integration

Persistence

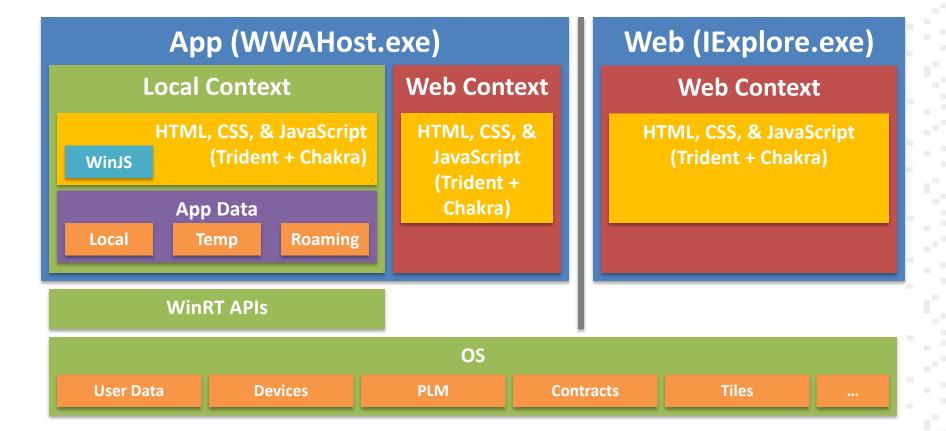
Trust

APP != WEBSITE





Trust via Different Sandboxes



http://msdn.microsoft.com/en-us/library/windows/apps/hh700404.aspx

HTML & DOM API CHANGES LIST





Using JavaScript

DEMO





Context

Feature	Local Context	Web Context
Windows Runtime (WinRT)	Yes	No
Windows Library for JavaScript (WinJS)	Yes	Partial
JavaScript URIs (attribute="javascriptCode")	No	Yes
Data URIs ("data:") for fonts	No	Yes
External script references (<script src="http://"></script>)	No	Yes
window.close	Yes	No
Cross-domain XHR requests	Yes	No

```
P
```

```
MSApp.execUnsafeLocalFunction(function() {
    element.innerHTML = '...';
});
```

TRUST ME, I KNOW WHAT I'M DOING!







AngularJS TodoMVC!

http://todomvc.com/

TODO POC





AngularJS + ASP.NET Web API + Windows Store App

https://github.com/DeveloperInfra/Bookshelf-poc

BOOKSHELF POC





Tips & Tricks / Pragmatic Advice

- AngularJS, Backbone, Ember, etc.
 - www.TodoMVC.com
- PhoneGap

- "One" Code Base, Multi-Screen
- ASP.NET MVC vs. HTML







- Process Lifetime Management (PLM)
- Screen Resize & View State
- Contracts
- Live Tiles & Notifications







- Use WinJS Controls (DatePicker, List/GridView)
- Use WinJS Annimations (enterPage, exitPage)
- Use Commanding Surfaces (Charms, App Bar)
- Leverage MSPointer (pointerDown, pointerUp)







Resources

- Start Building: http://build.windowsstore.com/
- MSDN Dev Center: http://msdn.microsoft.com/en-us/windows/apps
- The basics: http://msdn.microsoft.com/en-US/windows/apps/jj679957
- Download a VM: (For Mac, Linux, or Windows)
 http://www.modern.ie/en-us/virtualization-tools#downloads



 Abstracts & Source Code: <u>www.github.com/DeveloperInfra</u>

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SOFTWARE CONSULTING

APPLICATION

DEVELOPMENT

WORKFORCE MANAGEMENT SOLUTIONS



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