Using jQuery To Build Windows Store Apps

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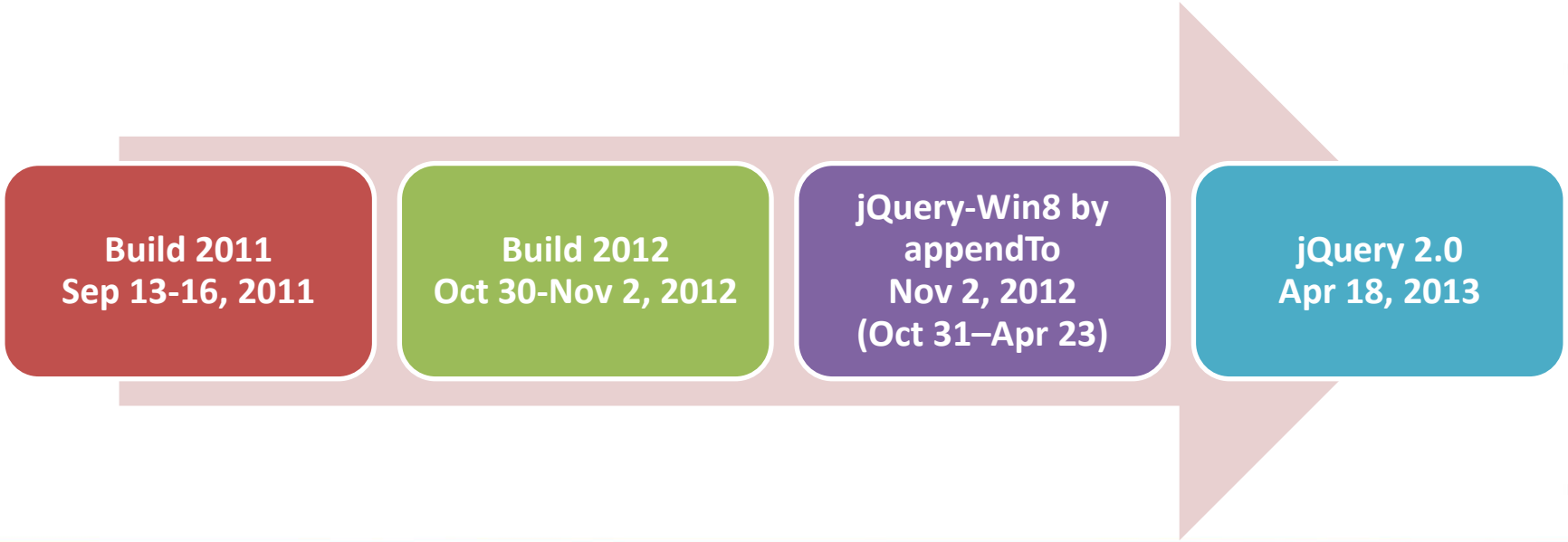
Agenda

- Windows Store apps with HTML & JavaScript
  - Standards-based App Development
  - Security Contexts
- Building Windows Store apps with jQuery
  - Tips & Tricks / Pragmatic Advice

History


Build 2011
Sep 13-16, 2011
Build 2012
Oct 30-Nov 2, 2012
jQuery-Win8 by appendTo
Nov 2, 2012
(Oct 31–Apr 23)
jQuery 2.0
Apr 18, 2013

File >> New Project

DEMO

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 standards mode.

IE10 Trident + Chakra

CSS 2D Transforms
CSS 3D Transforms
CSS Animations
CSS Backgrounds & Borders
CSS Color
CSS Flexbox
CSS Fonts
CSS Grid
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 (Dec 2009)
File Reader API
File Saving
FormData
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 Sandbox
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

Application Model

Navigation

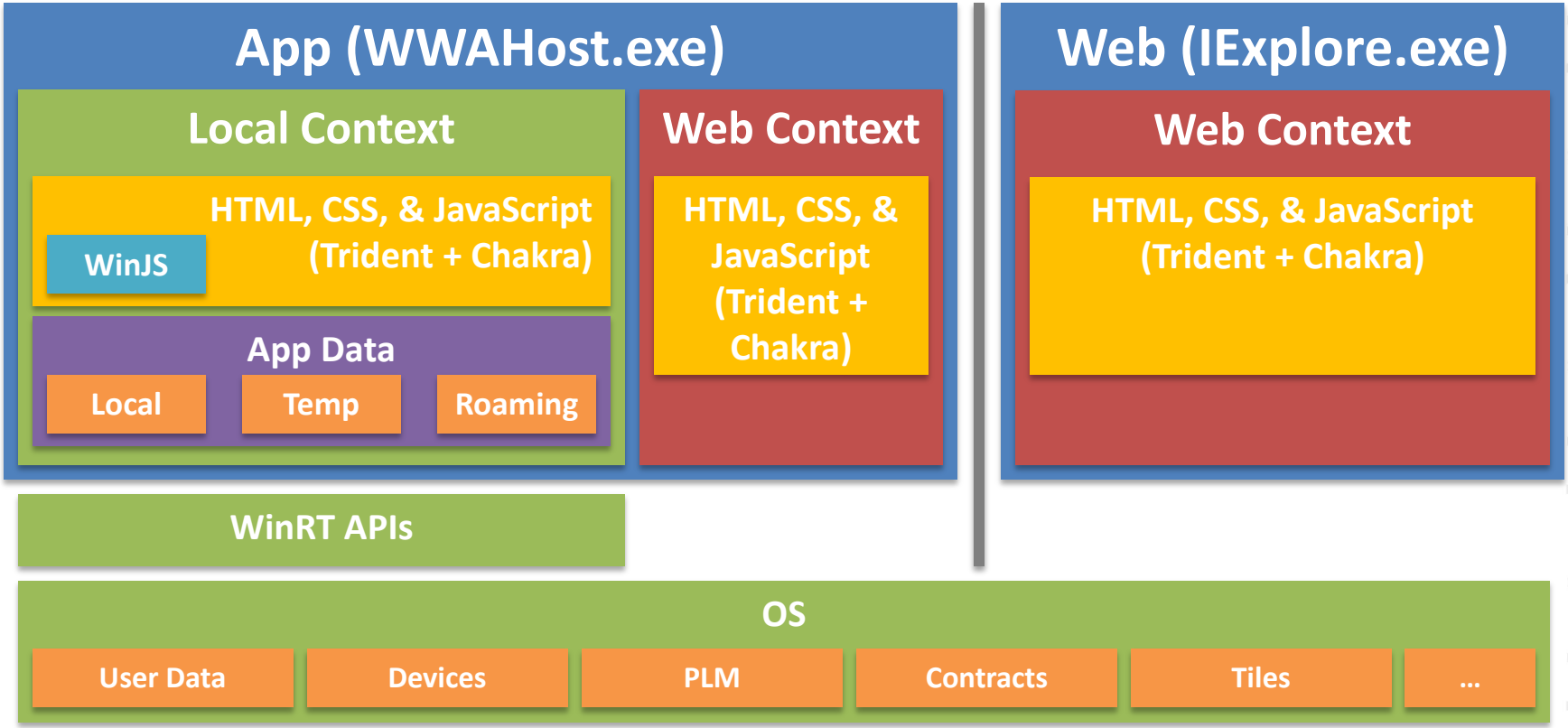
OS Integration

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 jQuery

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://..." />)	No	Yes
window.close	Yes	No
Cross-domain XHR requests	Yes	No

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

TRUST ME, I KNOW WHAT I'M DOING!

AngularJS TodoMVC!

http://todomvc.com/

DEMO

Great Windows Store Apps

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

Great Windows Store Apps

- 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/
- Dev Center: http://msdn.microsoft.com/en-us/windows/apps
- The basics: http://msdn.microsoft.com/en-US/windows/apps/jj679957

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