

Windows 8 and HTML5

Logistics

Date: 10/27/12

Location: Microsoft Silicon Valley Campus, Mountain View, CA

Links

<http://bit.ly/LargestHackathon>

<http://generationapp.com>

<http://msdnevents.com>

<http://devunleashed.com>

<http://meetup.com> (search for *Bay Area Microsoft Events*)

<http://dev.windows.com>

<http://design.windows.com>

<http://buildwindows.com> (Microsoft's *Build* conference)

<http://ietestdrive.com/Links/DevGuide9/DevGuide9.html>

<http://bit.ly/html5setup>

<http://bit.ly/HTML5DevCampDownload>

<http://bit.ly/Wins8Download>

<http://bit.ly/wins8cheatsheet>

<http://bit.ly/Win8GenApp>

Follow-up

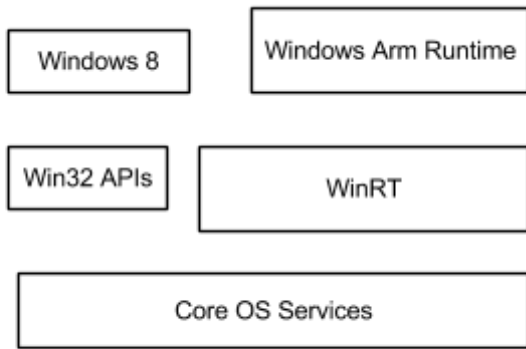
[_] <http://bit.ly/LargestHackathon>

[_] Search for [Windows 8 Camp in a Box](#)

[_] <http://bit.ly/HTML5DevCampDownload>

Architecture Overview

Matt Harrington

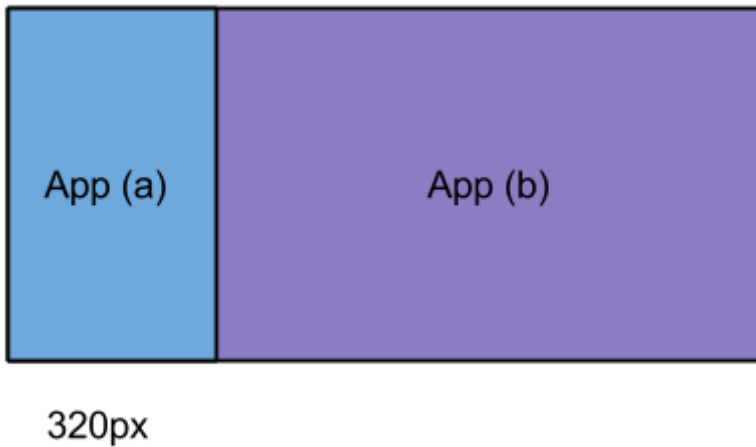


New File format for windows store apps “APPX”
 Microsoft’s Javascript Runtime is called “Chakra”

- This caused much confusion in the audience. People couldn’t understand the idea of a Javascript runtime on the platform, and “will this break firefox and chrome”.

Snapping

- Two applications visible on screen at once
- 320px wide *snap* window



Key Buzzwords and Soundbites

Plugins and Live Tiles

- key differentiators between Win8 and iOS and/or Android

Connected and Alive

- Tiles in home screen reflect application state and data, not just a launch icon

Roaming to the cloud

Code for Touch, Get Keyboard and Mouse for Free
Authentically Digital

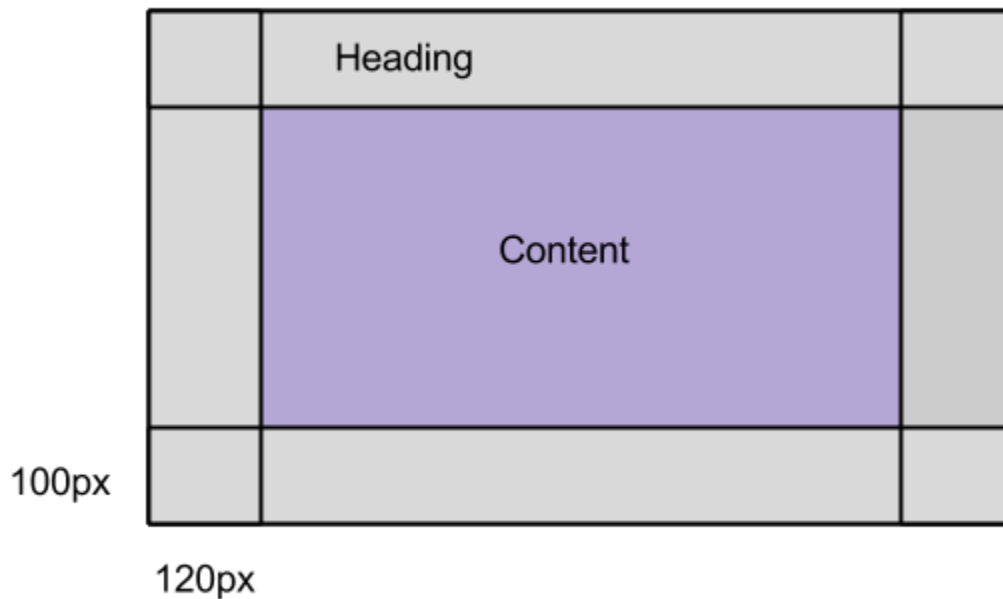
- Don't mimic the real world, i.e., avoid metaphors like bookshelves, crumpled paper

Design Guide

Use of boxes, fonts, layout

- No Chrome

Application *Silhouette*



Gesture areas

- Swipe from top/bottom
 - *AppBar* interacts with app features
- Swipe from left
 - Task switch
- Swipe from right
 - Charms, Settings, etc.

Hub and Spoke paradigm

- THREE layer hierarchy
- HUB -> SPOKE -> DETAILS

Semantic Zoom

- 50000ft view of content to make navigation easier
- Show larger 'meta' groups of content

HTML5 and CSS

Doris Chen, Developer Evangelist
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<http://blogs.msdn.com/b/dorischen>
@dorischen

HTML5 and CSS

New stuff in Windows 8

Optimizing screen layout for device /screen size

Use media Queries with “snap views” to automate layout

Look-up CSS property: `-ms-view-state`

Use Grids:

- GridView
- multicolumn

Check-out the *Blend* tool in Visual Studio (available in VS Express **for free**)

Data and Offline

AppCache

manifest

IndexedDB

key-value pairs

FileAPI

Examples in : <http://bit.ly/html5setup> <http://bit.ly/HTML5DevCampDownload>

Web Worker

Can access Everything but the DOM

CAN DO AJAX

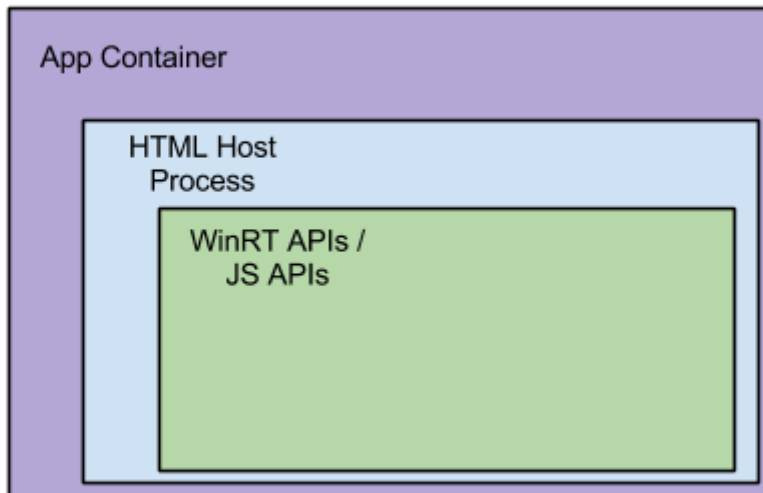
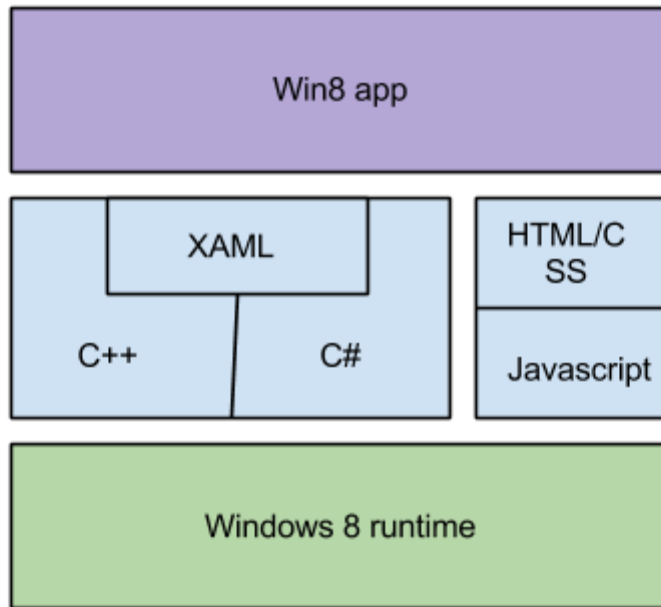
Think of it as a *service* not a thread.

Threads communicate via:

- `postMessage()` method
- `onmessage` event

Win8 and WebApps

Web Apps can run like any other app on windows 8. In win32, web app only runs in browser, but in Win8 the Chakra engine has access to the Win8 runtime.



Local Content Versus Remote Content

- Different contexts for security purposes
 - ms-appx://doc.html - gets access to WinJS
 - ms-appx-web://doc.html - gets access to internet

Ajax and Promises

- Pretty much what you'd expect
- `WinJS.xhr({...}).then(function(){...})`

Namespaces

- `WinJS.Namespace.define(...)`

Windows APIs and Windows App Store

William Leong, ISV Evangelist
@wleong

Contracts

Contracts allow an app to integrate to system services as well as perform operations within the app. For example, *Search*:

- You show-up in the app list on the homepage when someone starts typing. Get launched with the search term if they click your app.
- Within your app, the search contract allows you to implement a couple of callback. When a user types a search - on your charms menu - your callback gets activated.
 - Search and predictive text features can be implemented

Notifications

WNS

- Windows Push Notification Service
- Free service to all store apps
- Notification Client Platform on the Platform OS
 - Use MS *Azure* mobile services to simplify implementing notifications
 - <http://windowsazure.com>

Store

All apps are installed via the app store.

If you have your own app infrastructure, you can simply have your app store page point to your servers for install, updates, etc.

Account types:

- \$49 solo developer account (per year)
- \$99 Company account (per year)

App Prices:

- \$1.49 - \$999.99
- Free is also an option

Ad services:

- Use Microsofts ad network or use your own

Revenue Share:

- Microsoft gets 30%
- If you generate over \$??K revenue, the share to MS goes down

Built-in support for limit time (eval) versions of apps

- App can be made to automatically disable after predetermined time
- Select from simple drop down list in app store work-flow

WACK - Windows Application Certification Kit

- Check that your app will pass certification before you try submit.

Privacy Policy

- **Your app must include a privacy policy, or it will be refused**