You Make IT Smart Windows 8 / 8.1 & Windows Phone 8 Apps Overview for Developers

Sascha Corti
Technical Evangelist, Microsoft Switzerland
sascha.corti@microsoft.com | techpreacher.corti.com | @techpreacher

You make IT Smart Campaign













Key Points

Publish 2 new Windows 8 / 8.1 or Windows Phone 8 Apps and get 100 downloads for each one before June 16, 2014 to the Swiss Windows Store or Phone Marketplace.

Submit Info on your Apps on https://ymits.azurewebsites.net/

Be one of the first 200 – Get a Microsoft Surface RT or a Nokia Lumia 625!





Resources

Competition Website: http://www.microsoft.ch/ymits (competition info, registration, hints...)

Community: http://www.facebook.com/ymits (for questions, tech support, updates...)

E-mail: <u>swissarm@microsoft.com</u>

Events

Roadshows: check dates on our website

TechDays 13 Basel and Lausanne: free participation at Day 1 for developers: www.techdays.ch





DreamSpark Premium

Free developer tools, unlimited full versions, incl. Visual Studio Professional or Ultimate, SDKs, Windows Server: http://www.dreamspark.com/student

Microsoft Virtual Academy

Free online trainings and courses on app development: http://www.microsoftvirtualacademy.com/

More Resources

Direct links to the best trainings and ideas for your apps: http://www.microsoft.com/de-ch/students/en/getInvolved/youmakeitsmart/resources/default.aspx#fbid=EVeF21NKhG9





Microsoft Student Partners – Your Contacts



Raphael Bösch Fribourg

a-raphbo@microsoft.com



Remo Diethelm
Bern
a-rediet@microsoft.com



Pierre Grydbeck
Lausanne
a-pigryd@microsoft.com



Jiri Danihelka **Zurich**v-jidani@microsoft.com

Create your free Developer Account

1. Sign Up with Dream Spark

https://www.dreamspark.com/student/Windows-8-App-Development.aspx https://www.dreamspark.com/Account/CreateAccount.aspx



- 2. Verify you are a Student and get Registration Code https://www.dreamspark.com/Student/Windows-Store-Access.aspx
- 3. Register at the Windows / Windows Phone Store https://appdev.microsoft.com/StorePortals//
 http://dev.windowsphone.com/join
- 4. Get the Tools https://www.dreamspark.com/Student/Software-Catalog.aspx

Introducing Windows 8

Big range of Windows 8 Devices















Windows 8 Form Factors

Desktop PCs

Tablets/Slates









Windows 8 New Window Experience

(Previously known as "Metro")

x86/64 Edition Surface Pro



ARM Edition Surface



Windows 8 New Window Experience

"Full Experience"

Windows 8 Pro*

x86/64 Edition

Surface Pro



"Great Lifestyle"

Windows RT

ARM Edition

Surface



Windows Store (+ side-loading)



"Full Experience"

Windows 8 Pro*

x86/64 Edition Surface Pro



WinRT -

"Great Lifestyle"

Windows RT

ARM Edition Surface

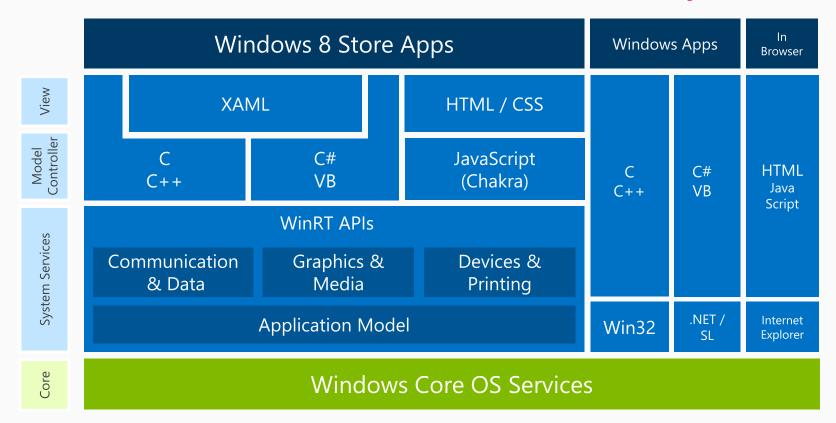


demo

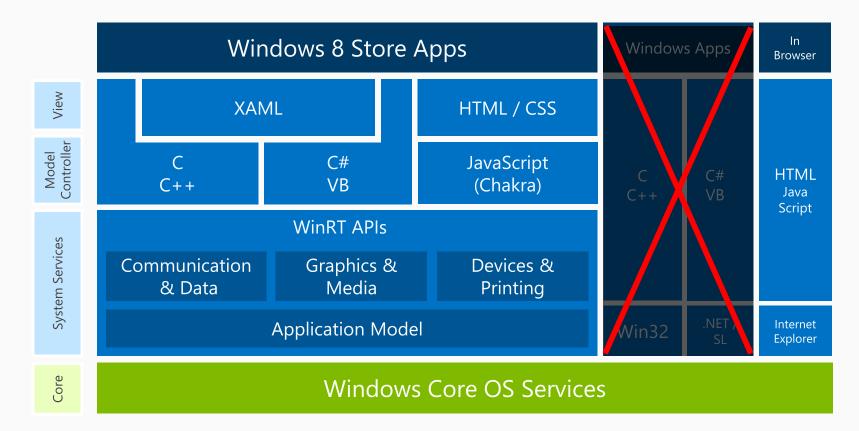
The Windows 8 User Experience

The Windows 8 Platform

The Windows 8 Platform on x86/x64

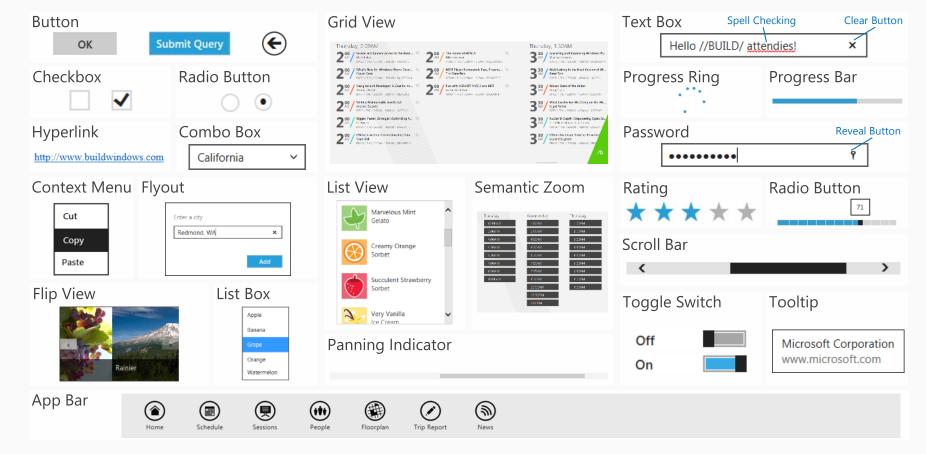


The Windows 8 Platform on ARM

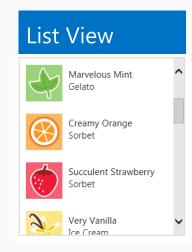


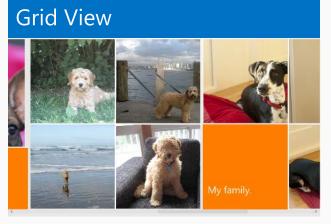
Developing for Windows 8

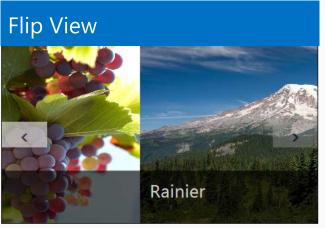
Controls for Windows Store Apps



Presenting data







Windows Store Apps: Lifecycle



Splash screen

Code gets to run

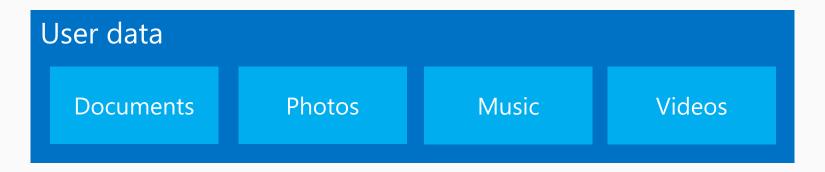
No code runs

App not running

→ More Info: http://msdn.microsoft.com/en-us/library/windows/apps/hh464925.asp-x

App Data vs. User Data





Process Isolation Solution 'Canvas Paint' (1 project) Canvas Paint ■■ References images Process1 Prod Canvas Paint_TemporaryKey Local context Local context default.html 🔃 package.appxmanifest **AppData AppData** Contracts Web Capabilities context Documents Library Enterprise Authentication Local Temp Roaming Local Temp Internet (Client & Server) ▼ Internet (Client) Location Microphone Music Library **Brokers** Pictures Library Private Networks (Client & Server) Proximity Removable Storage Shared User Certificates Text Messaging ■ Videos Library OS Webcam

Handlers

Tiles

Cryptc

User data

Devices

Communications

demo

Creating a Windows 8 Store App

Introducing Windows Phone 8

Introducing the Shared Windows Core



Introducing the Shared Windows Core



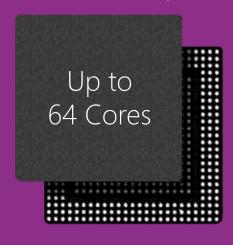




Platform enhancements

Latest and Greatest Hardware

Multi-Core Chipsets



3 Screen Resolutions



WVGA 800 x 480 15:9



WXGA 1280 x 768 15:9



720p 1280 x 720 16:9

MicroSD Support



Photos • Music Videos • Installing apps from

Internet Explorer 10

SmartScreen anti-phishing filter uses data from millions of Windows PCs to block malicious websites in real-time

4x faster JavaScript performance compared to Windows Phone 7.5

2x HTML5 feature support compared to Windows Phone 7.5



Native Code: Killer Games

Common platform for Windows Phone and Windows

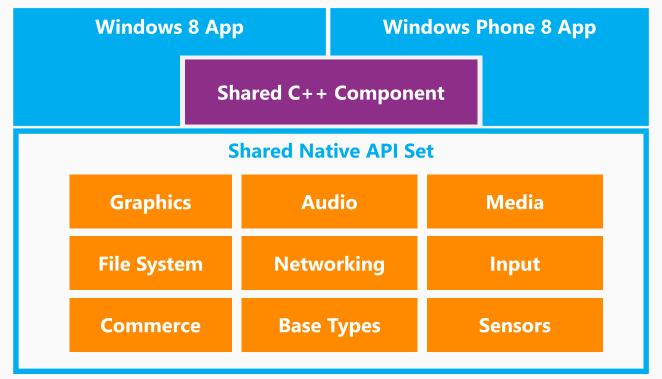
Native game development platform based on DirectX

Games developers can write the same game for Windows 8 and Windows Phone



Sharing Native Code

between Windows 8 and Windows Phone 8







audiokinetic Autodesk

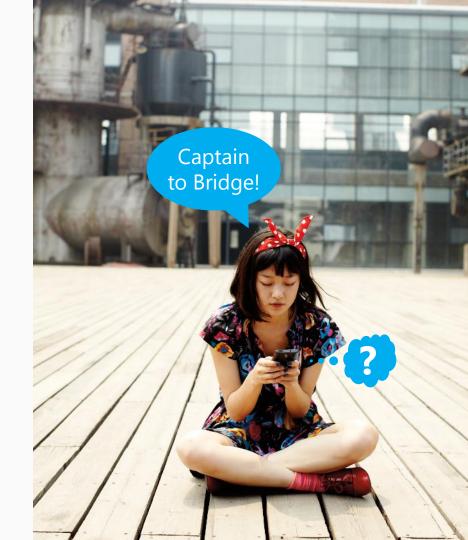
Speech Platform

Conversations with Apps

Tap in to Phone's Voice Commands Use Speech to Text in your Apps Use Text to Speech in your Apps

Available to all Developers

15 supported Languages



demo

Speech Platform

Proximity

Bluetooth

- 0-100m Range
- WinRT StreamSocket for communication (~2.1 Mbit/s)
- App to App and App to Device

Near Field Communication (NFC)

- 2-4cm Range, Low Bandwidth (~424 kbit/s)
- Acquire Connections and Exchange small amount of Data
 - Bootstrap WinRT StreamSocket
- App to App and App to Device





Better Sharing with NFC







demo

Building a Sphero Control App

Lock Screen on Windows Phone 8





End User can select any app that has been enabled for lock screen notifications to show detailed status

Select any five apps to show quick status (icon and count)

Your App in the Notifications Area:

- Create an icon
- Declare the app's intent in WMAppManifest.xml

Your App as Lock Screen background Provider:

- Declare the app's intent in WMAppManifest.xml
- Write code to change the background image
 - While App runs
 - Using Background Agent

demo

Setting the Lock Screen Image from your App

AppStudio for Windows Phone

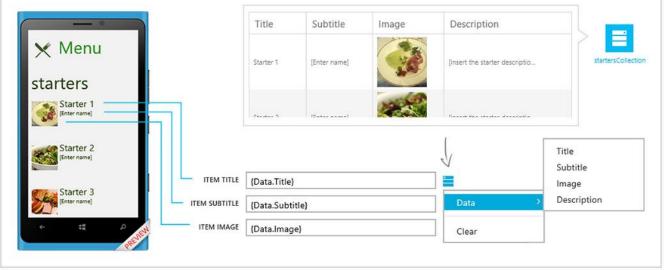
http://apps.windowsstore.com

Step-by-Step Guide:

http://apps.windowsstore.com/Home/DownloadGetStarted







The Windows Store

The Appconomy Is in Its Infancy!

Smartphone App Store

Mac OS -App Store



Tablet / PC App Store

A great time to be a developer

Cloud Backend

No fix costs Agility Scalability

Store Frontend

Promotion
Payment
Deployment
Copyright protection





Unprecedented Reach

100+ languages 200+ markets

Local pricing & settlement

Apps in CHF
Payout in CHF
IRS form to get withholding tax back (online)



App Monetization

То

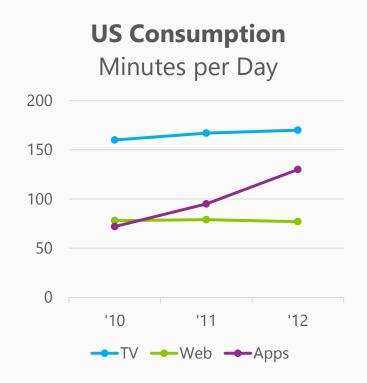
Business

\$19 / \$49 \$1.49 70% Free for students Individual From New App \$999.99 \$99 80% once your app makes

\$25,000

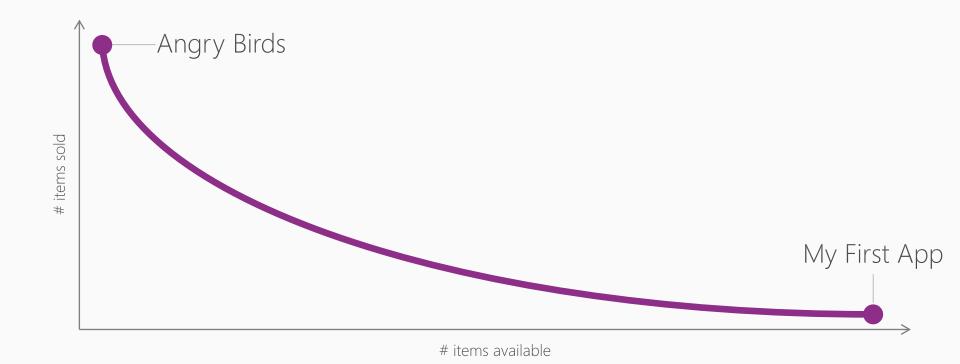


The App Users





The long tail

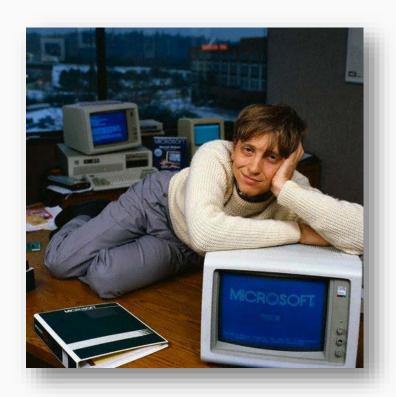


The Publishers

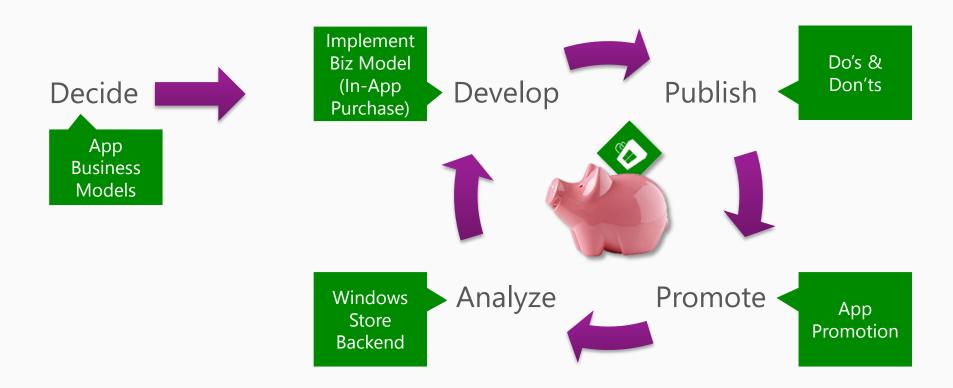
80% don't generate enough for standalone business

68% less than \$5'000.- with top app

59% apps don't reach break even



Get-Rich-With-Apps Lifecycle



Business Model Overview

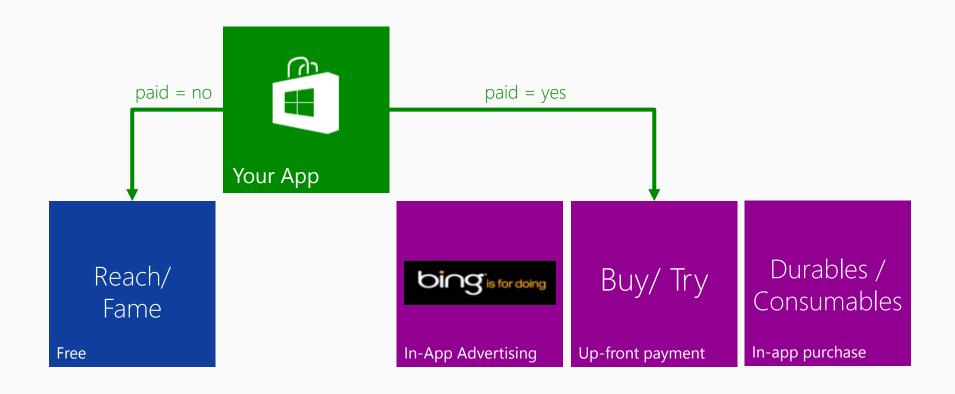
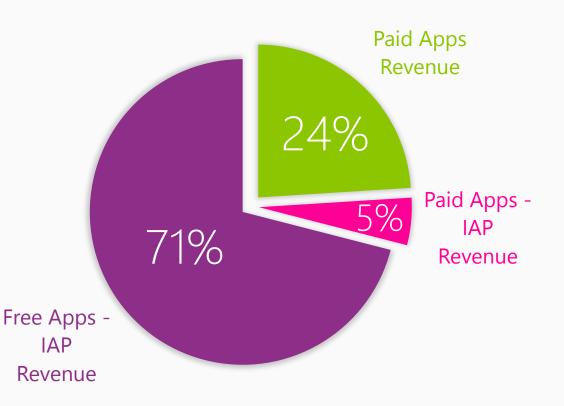


Chart: Income by Revenue Type

Source: Distimo

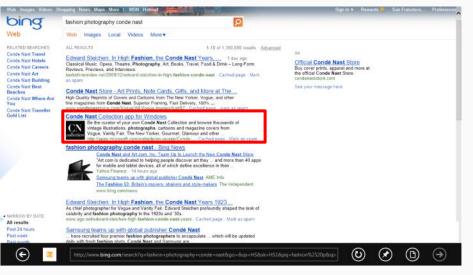
iPhone, Feb 2013, United States







http://apps.microsoft.com/webpdp/en-us/app/Conde-Nast-Collection



Updates (2)

Home > Photos Overview Details Reviews



(a) (b)



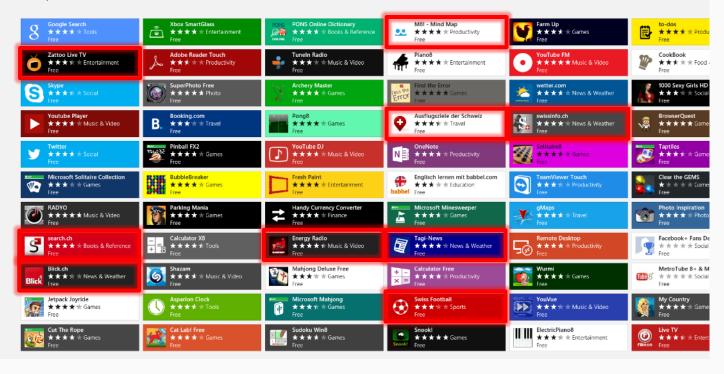
The Condé Nast Collection opens the door to a treasure trove of artwork that defined culture, style,

Browse thousands of vinitage illustrations, photographs, cartoons, and magazine covers exclusively from Vogue, Vanity Fair, The New Yorker, Gourmet, Glamour, and other legendary magazines. Purchase them directly from the app as a fine at print fulfilled by our partner, Art.com.

and generations you won't find from any other source.

Early Adoption Matters

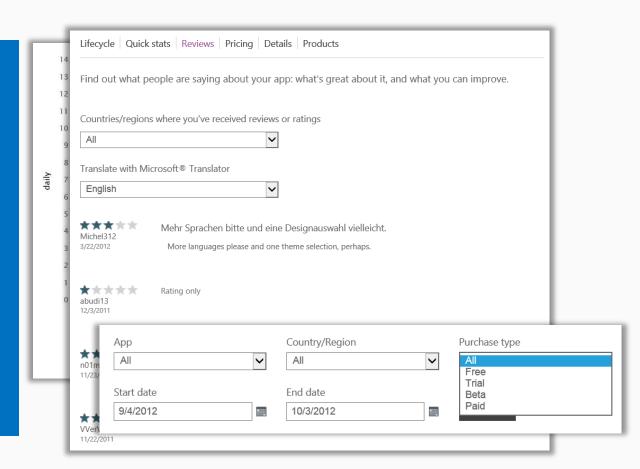
● Top free 99 apps



Snapshot April 2013

Store Reporting – User Feedback Matters!

- Point-in-time and low latency reporting
- All reviews in a single place
 - Translated to your language!
- Analyze Free, Trial, Beta and Paid downloads



Enterprise Apps

Modern (Business) Apps

B₂C LOB ISV Custom LOB Consumer XBOX LIVE® Examples MEETING **MAID ─**SWISSQUOTE Doctor Swiss Snow W h o m Report **Dogfood Central** tracker.com RG Blick[‡] evidence exlibris.ch exopoint Windows Store or Windows Store **Windows Store** Side-loaded Distribution Side-loaded **Business** Consumer Used by

Enterprise Readiness

Complete Security Platform
Secure Boot
Full Device Encryption

Flexible, Secure App Distribution

Business controlled

All Code is Signed – All Apps are Sandboxed

Device Management

Enable integration with software management systems

Familiar Office Apps

Access to SkyDrive, Sharepoint, DRM protected data.

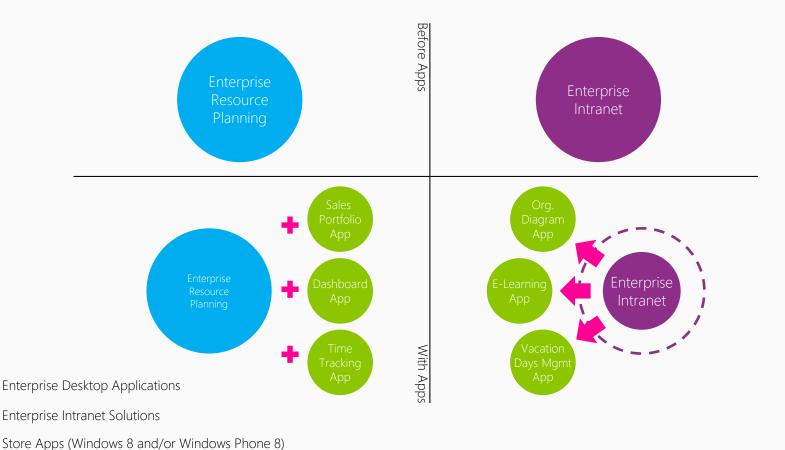


Company Hub





Applications versus App in the Enterprise



Resources

Download the Demos and Slides!

Download the Slides

http://corti.ch/ymits-2013

Download the Demos

http://corti.ch/contosocookbook

https://github.com/TechPreacher/Ask-For-User-Rating.git

https://github.com/TechPreacher/WP8-Sphero-Control.git https://github.com/TechPreacher/WP8-FlickrSearch.git



Developer Resources – Windows 8

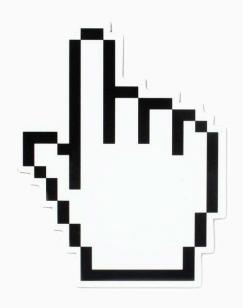
http://develop.windows.com

http://design.windows.com

http://corti.ch/contosocookbook

http://microsoft.ch/ymits

http://facebook.com/ymits



Developer Resources – Windows Phone 8

Streamed sessions from //build/ conference http://channel9.msdn.com/Events/Build

New Phone Developer Center https://dev.windowsphone.com/en-us/dashboard

All about Windows Phone http://www.windowsphone.com

Windows Phone Developer Learning http://msdn.microsoft.com/en-us/library/windowsphone/develop

Windows Phone 8 SDK free Download http://dev.windowsphone.com

