

Windows Phone 7 for Developers

BenkoTips Live & On Demand



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CODE CAMP 2010

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A different kind of phone,
designed for a life in motion



Philosophy
Customer
Design
Experience
Platform

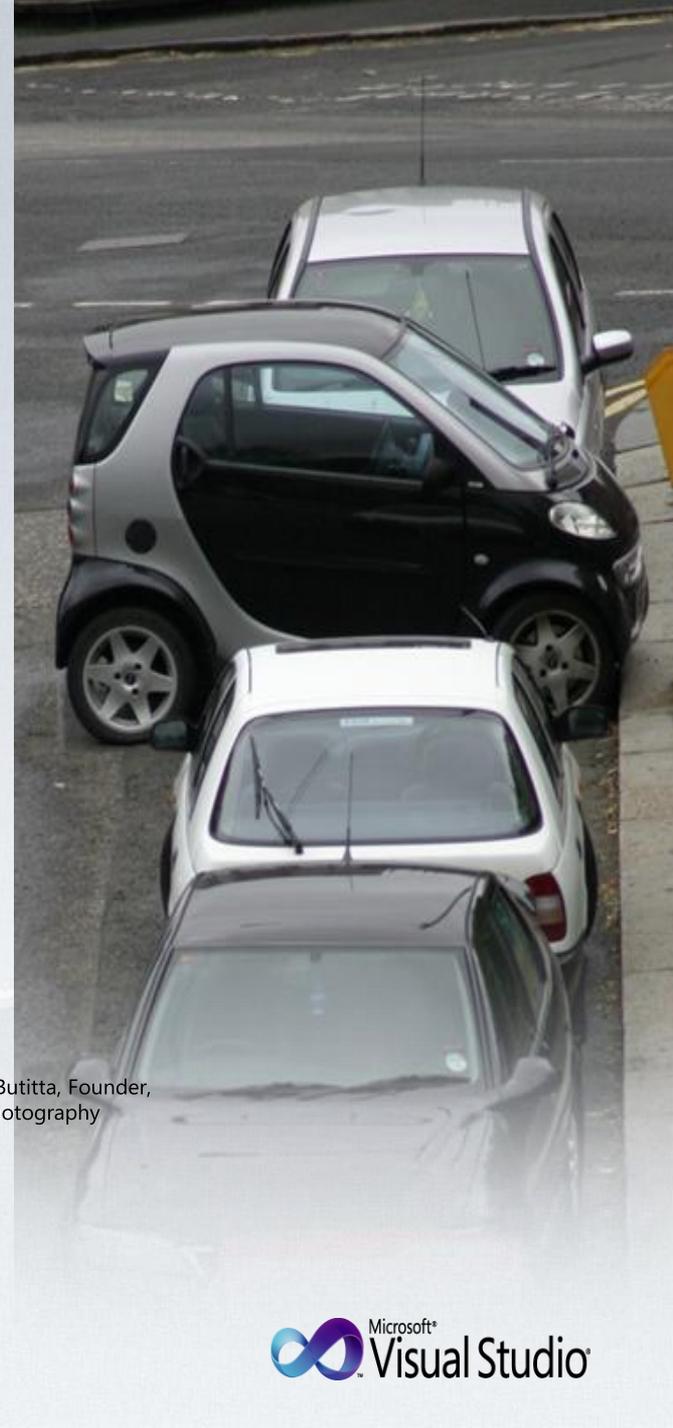


Different, For Good Reasons

 Smart Design

 Integrated Experiences

Photo by: Andrew Butitta, Founder,
Talisman Digital Photography

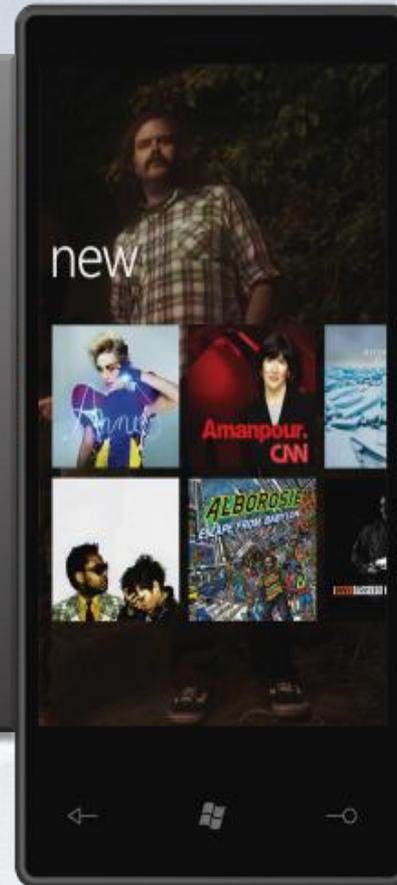


Metro Design Language



Integrated Experiences

PEOPLE
OFFICE
PICTURES
MUSIC+VIDEO
MARKETPLACE
GAMES



Quick Experience Tour



Standardized Hardware Foundation



Capacitive touch

4 or more contact points

Sensors

A-GPS, Accelerometer, Compass, Light, Proximity

Camera

5 mega pixels or more, flash required, camera button required

Multimedia

Common detailed specs, Codec acceleration

Memory

256MB RAM or more, 8GB Flash or more

GPU

DirectX 9 acceleration

CPU

ARMv7 Cortex/Scorpion or better

Hardware buttons | Start, Search, Back

How do I get started?

- Download the tools
 - <http://bit.ly/CDevWP7Toolkit>
 - Visual Studio 2010 (express or ?)
 - Expression Blend
 - XNA Studio 4.0
- Register in the Marketplace
 - \$99 fee
 - Students in Dreamspark free!
- Submit your apps
 - Make \$\$\$
 - Gain fame, wealth and reputation



Elements of the Application Platform

Runtime – On “Screen”

Code you write
on the client

Tools & Support

Tools you use to
design & develop

SCREEN

Cloud Services

Code you write
on the server

Developer Portal

Tools you use to
ship & sell

CLOUD

Elements of the Application Platform

Runtime – On “Screen”

 Microsoft Silverlight™		 XNA	
Sensors	Media	Data	Location
Phone	Xbox LIVE	Notifications	
.NET Framework managed code sandbox			
 Windows Phone		 XBOX	
 Windows 7			

Tools

 Microsoft Visual Studio™	 Microsoft Expression Blend™
Phone Emulator	 XNA Game Studio
Samples	Documentation
Guides	Community
Packaging and Verification Tools	

SCREEN

CLOUD

Cloud Services

Notifications	App Deployment	
Location	Identity	Feeds
XBOX LIVE	Social	Maps
 Windows Azure™		

Portal Services

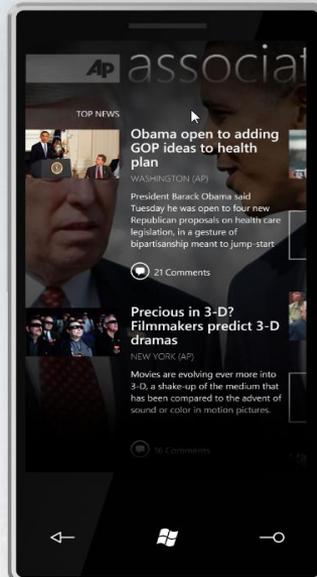
Registration	Marketplace
Validation	MO and CC Billing
Certification	Business Intelligence
Publishing	Update Management

Two Flavors of Applications



Microsoft®
Silverlight™

- Modern XAML/event-driven application UI framework
- Rapid creation of visually stunning apps
- Metro-themed UI controls
- HTML/JavaScript
- 500,000 developers spanning Windows and web



- High performance game framework
- Rapid creation of multi-screen 2D and 3D games
- Rich content pipeline
- Mature, robust, widely adopted technology spanning Xbox 360, Windows, and Zune



Windows Phone Developer Tools

One download

Free!

Release tools now available

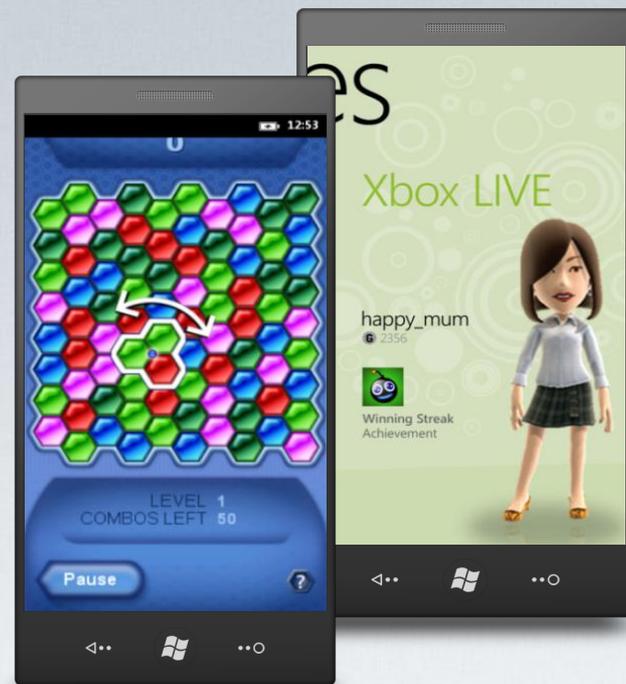
Visual Studio 2010 Express
for Windows Phone

Expression Blend 4 (free plugin for Windows
Phone)

<http://bit.ly/CDevWP7Toolkit>



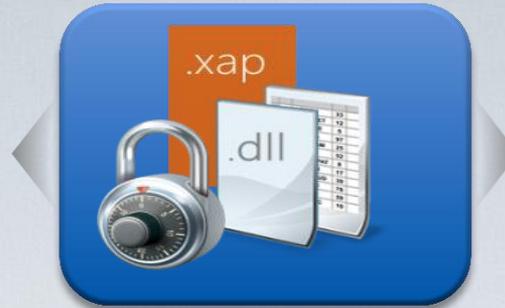
Building applications for Windows Phone 7



UI Model: Familiar Web Concepts

Phone application

Provides UI as XAML pages connected into cross-app flows by URI's



Web application

Provide media represented as HTTP resources linked by URL's

Shell frame

Requests pages, renders UI, and handles navigation across apps



Web browser

Requests HTTP resources, renders them, and handles navigation across sites

Sessions and back stack

Groups together sequences of pages corresponding to a user's activity across apps



History and tabs

Groups together sequences of HTTP resources corresponding to a user's activity across sites

Deployment Process

Develop
& Debug



Submit
& Validate



Certify
& Sign



Windows Phone
Application
Deployment Service



Marketplace

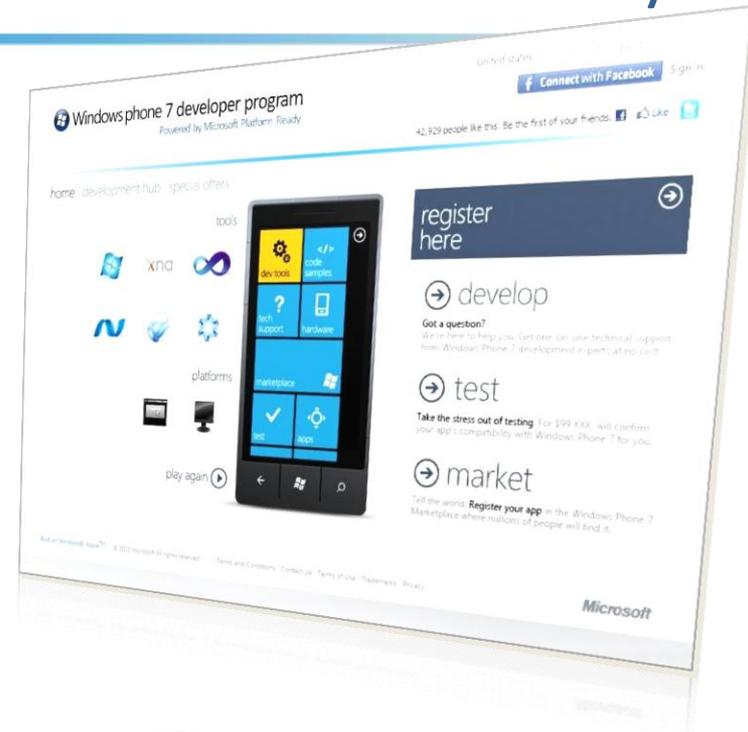


Windows phone 7 developer program

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- 4** \$99 Marketplace Rebate*
*See site for full details. Rebate valid for developers who publish 2+ apps into WP7 Marketplace, rebate will be sent within 4 weeks of publishing of second app. Limited time offer.



 Windows® Phone

 Windows® Azure™

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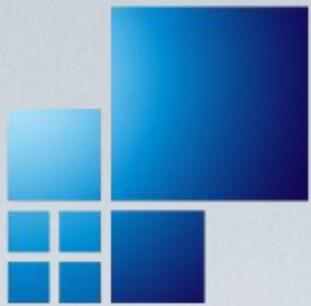
Call to Action

Cloud Integration

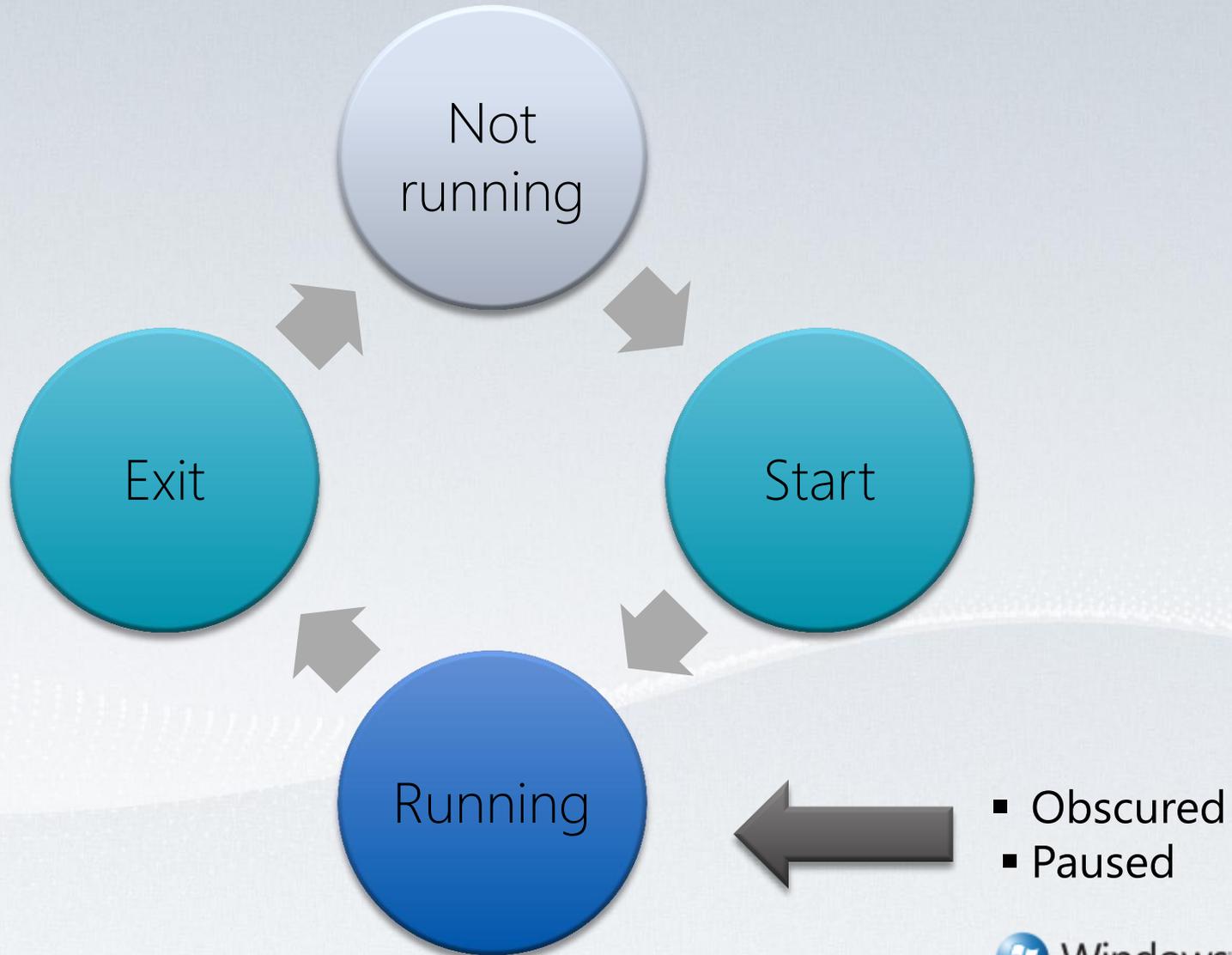


Built-in user experiences and APIs integrated with key Microsoft services
Familiar API frameworks for interacting with existing Web 2.0 services
Rich support for incorporating custom web services into app-specific experiences

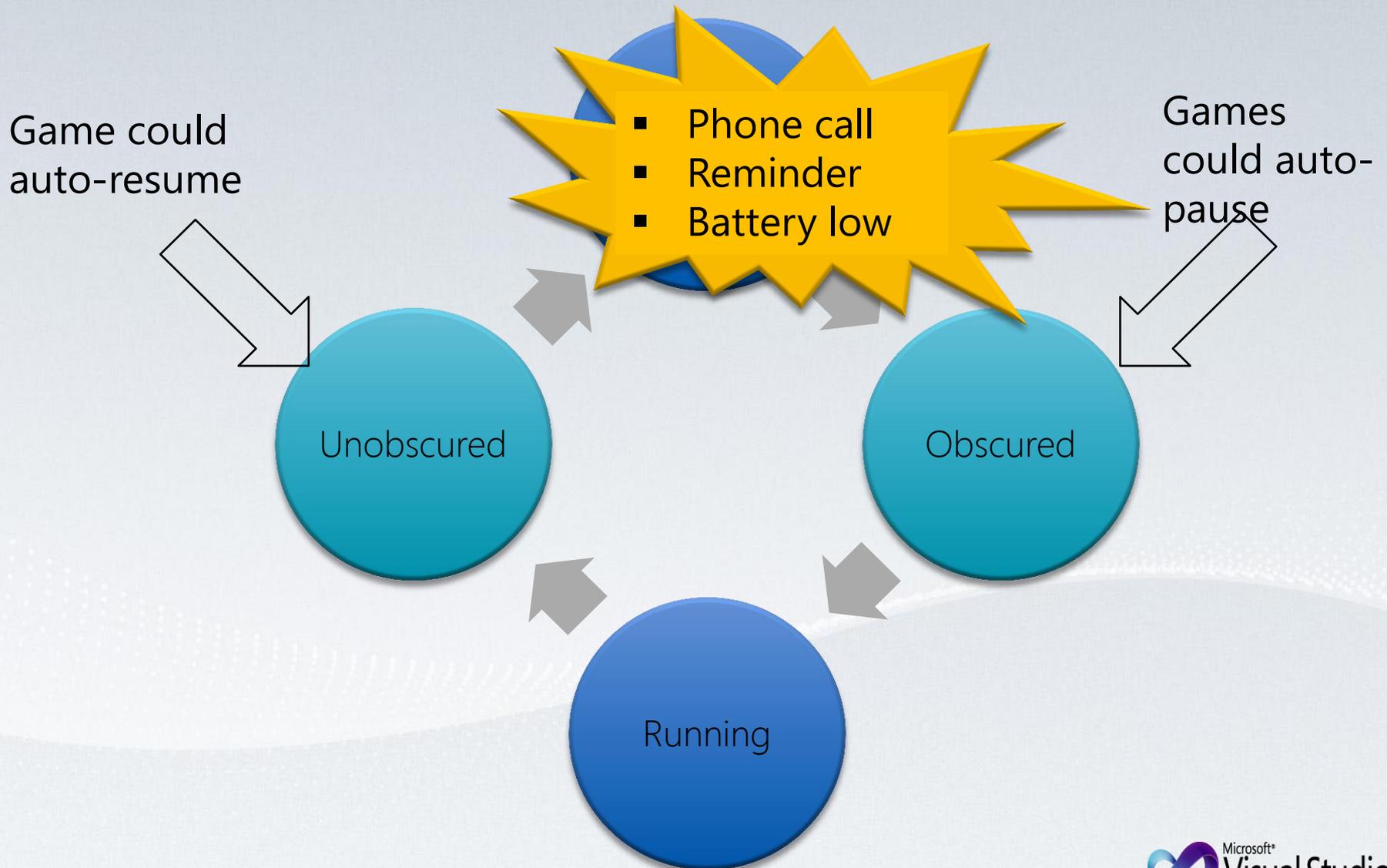




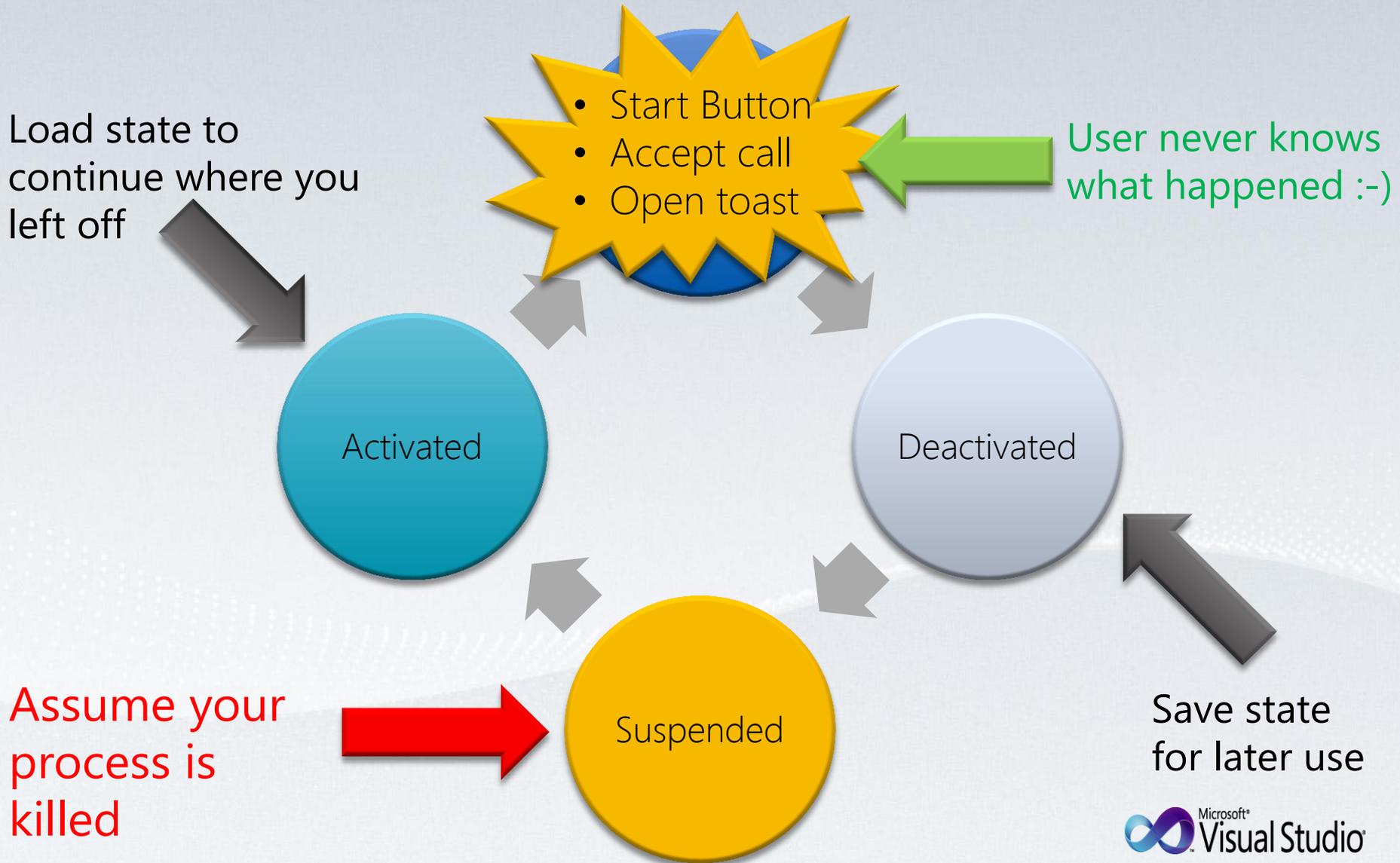
basic application lifetime



obscured: popup ui from shell



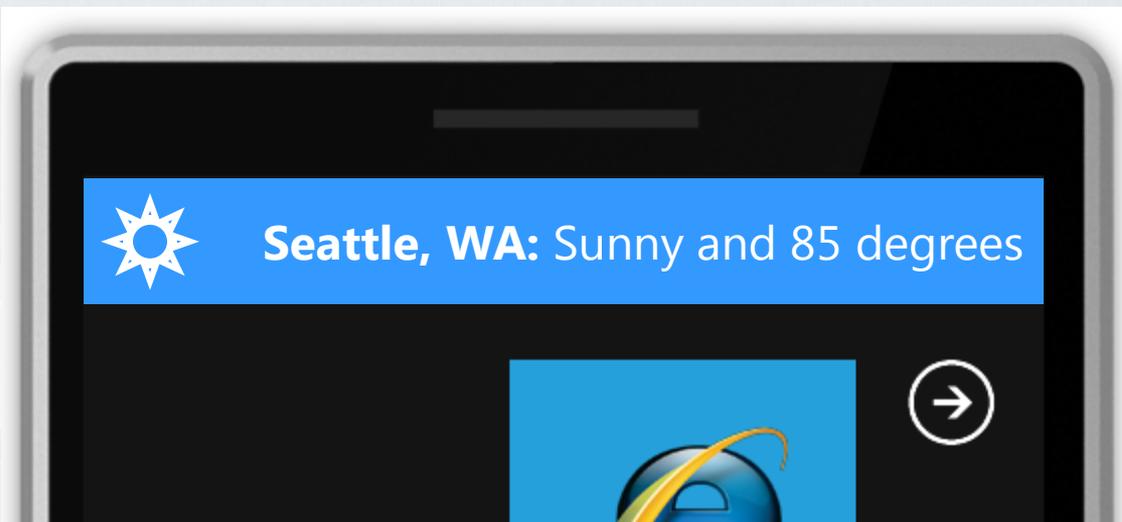
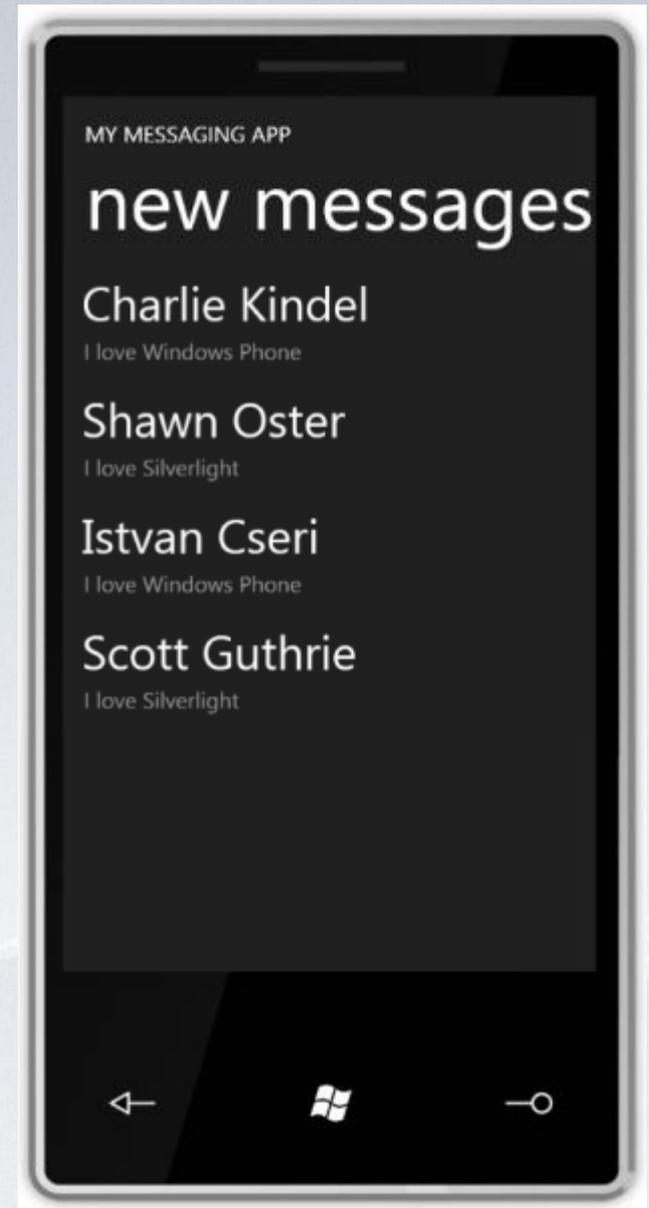
paused: jump to another app



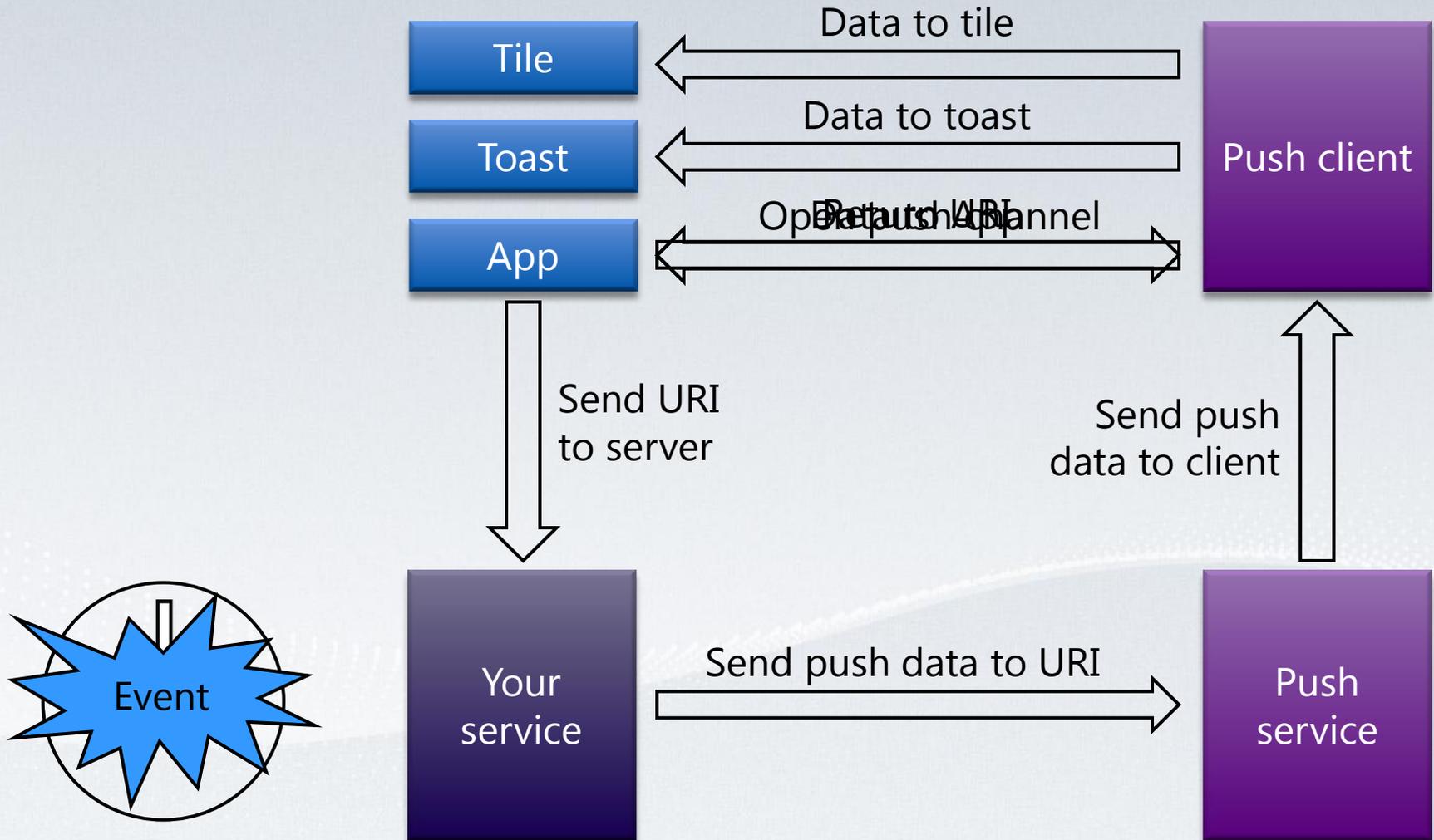
push notifications

- Server-initiated communication
- Enables key background scenarios
- Preserves battery life and user experience

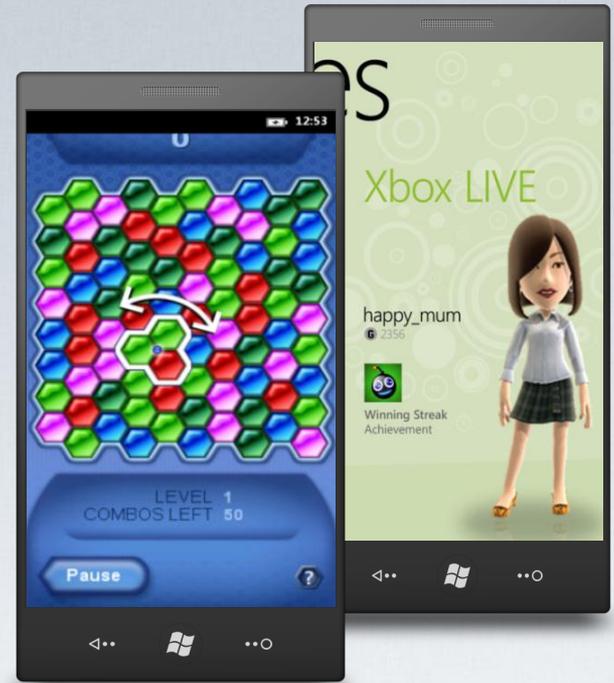
notification types



push notifications



Push Demo

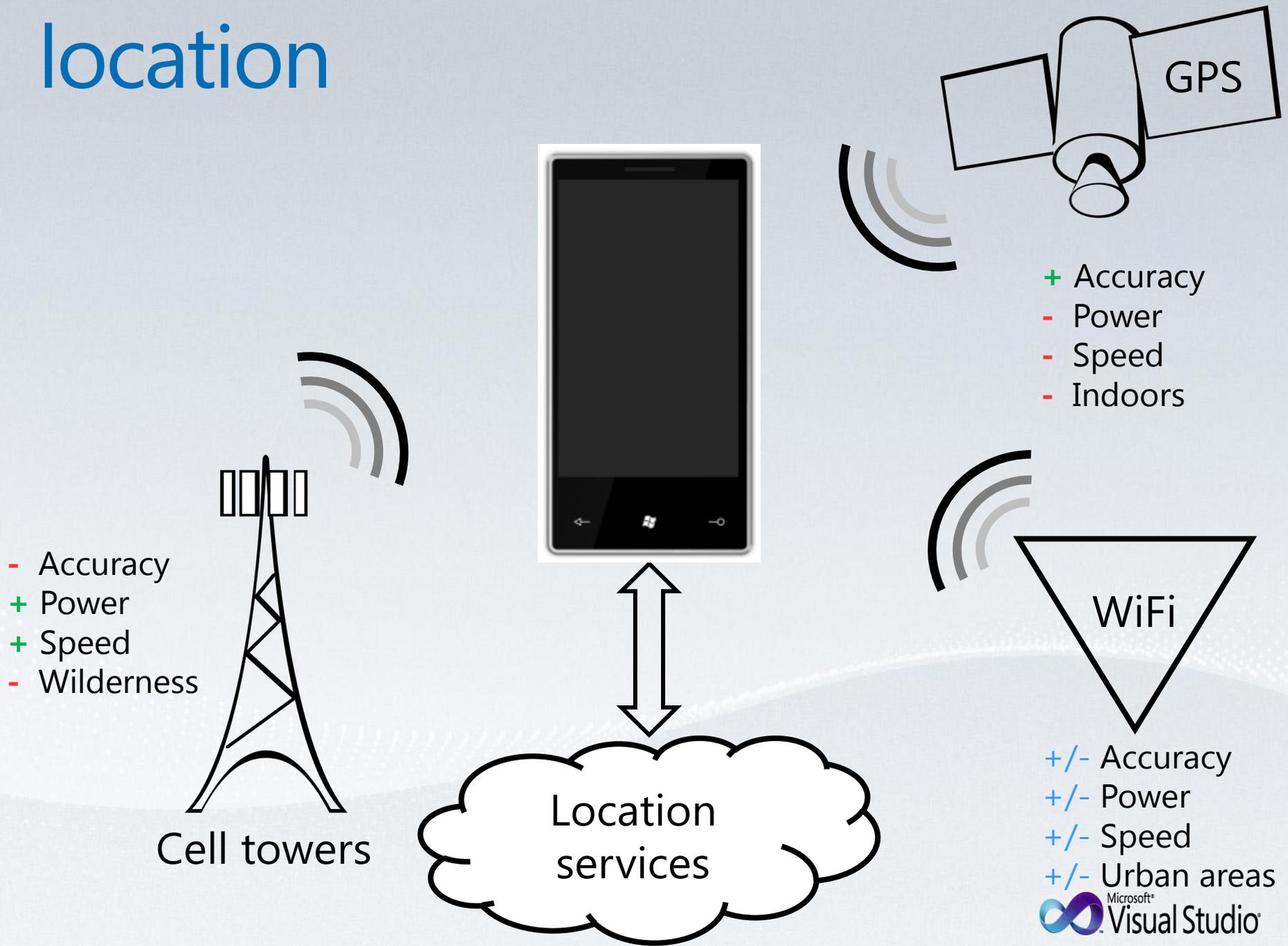


location services

No emulator
support

- Smart device + cloud service
- Balance accuracy with time & power
- Consistent API across platforms

location



Get Started Today

Go to...

<http://bit.ly/CDevWP7Toolkit>

Or check out

<http://slickthought.net>

You'll find today's presentation and links to...

- Tools download
- Training Kit
- Links to MIX videos
- More...

Call to Action

Download the tools!

Read and understand the design
guidelines

Give us feedback

Resources:

- <http://bit.ly/CDevWP7Toolkit>
- <http://windowsteamblog.com/blog/wpdev>
- <http://blogs.msdn.com/ckindel>
- <http://blogs.msdn.com/ptorr>
- <http://delicious.com/chriskoenig/wp7>
- @wp7dev

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Theme

Imagine a world where **technology helps solve the worlds toughest problems**, and as you consider these toughest problems, consider the UN Millennial Goals to help you find inspiration.

Get Started

Email us (ICUS@microsoft.com) to learn more about **advising** a student team.

Get inspired

UN Millennium Goals:

Poverty + Hunger

Universal Education

Maternal Health

Combat AIDS/HIV

Gender Equality

Child Health

Environmental Sustainability

Global Partnership

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