

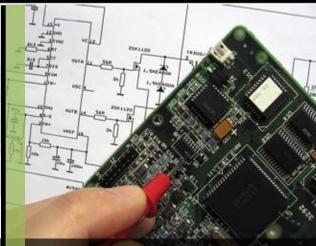
Changing our game



DESIGN: END USER COMES FIRST



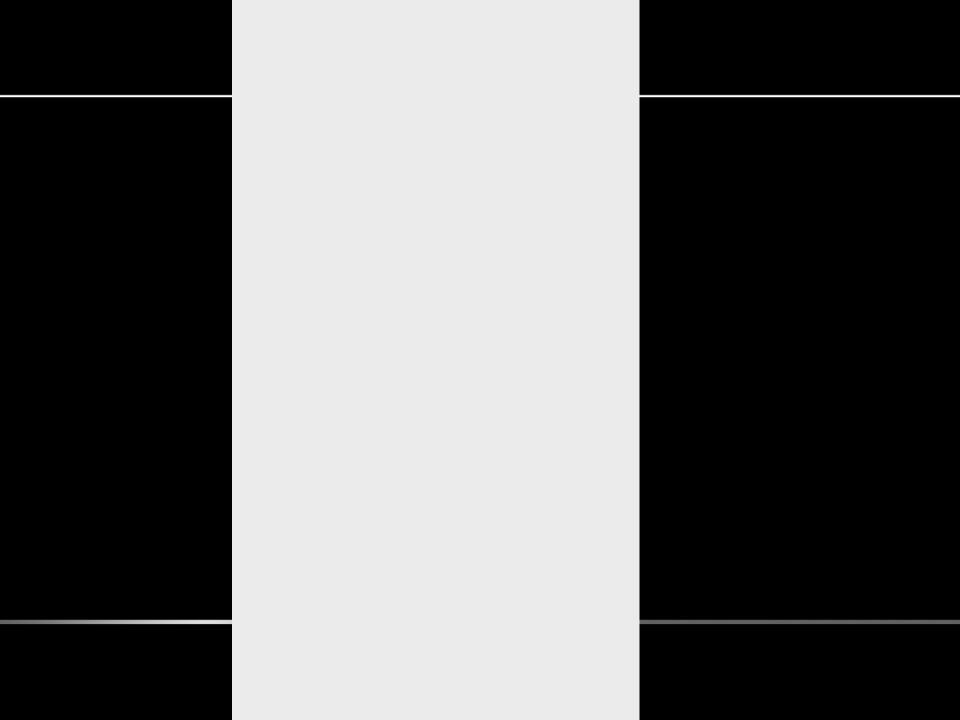
PLATFORM: RICHER, DEEPER, EASIER APPS



HARDWARE: FASTER TO MARKET, LESS HEAVY LIFTING

How it looks like.





Platform Overview

Hardware Foundation

Display

480x800 QVGA 320x480 HVGA (future)

Capacitive touch

4 or more contact points

Sensors

A-GPS, Accelerometer, Compass, Light

Camera

5 mega pixels or more

Hardware buttons

Start, Search, Back



Multimedia

Codec acceleration
Common detailed specs (What does it meant?)

Memory

256MB RAM or more 8GB Flash or more

GPU

DirectX 9 acceleration

CPU

ARMv7 Cortex/Scorpion or better



Software Architecture

Applications	Your App UI and logic						
	Frameworks						
	Silverlight		XNA		HTML/JavaScript		
	CLR						
App Model	UI Model			Cloud Integration Xbox LIVE			
App management	Shell frame			Bing			
Licensing Chamber isolation	Session manager Direct3D			Location Push notifications			
Software updates		Compositor			Windows Live ID		
Kernel Security	Hardware BSP						
Networking Storage	A-GPS Media	Acceleromete Wi-Fi	er Light Radio		mpass aphics	Proximity	
Hardware Foundation							



Development Overview

Development Options





- Rapid creation of visually stunning apps
- Metro-themed UI controls
- 500,000 developers spanning Windows and web





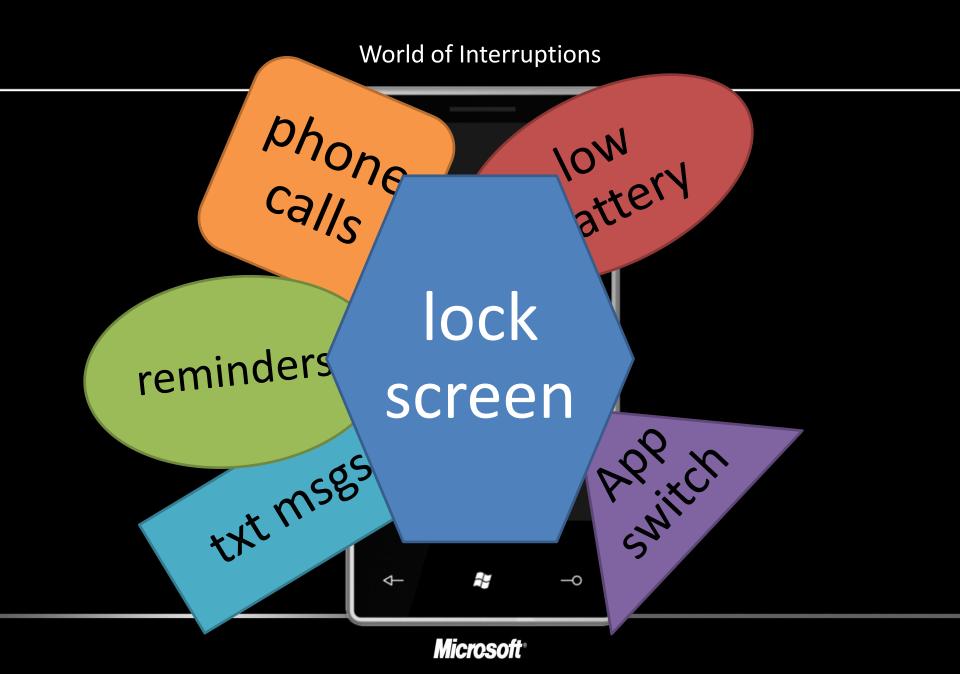
- High performance game framework
- Rapid creation of multi-screen 2D and 3D games
- Rich content pipeline
- Mature, robust, widely adopted technology spanning

Xbox 360, Windows, and Zune



- Windows Phone Developer Tool.
 - VS 2010 Express for WP7
 - Expression Blend 4 for WP7
 - Silverlight (3) for WP7
 - XNA Game Studio for WP7
 - Windows Phone Emulator
 - Phone Registration Tool
- Windows Phone 7 Training Kit.

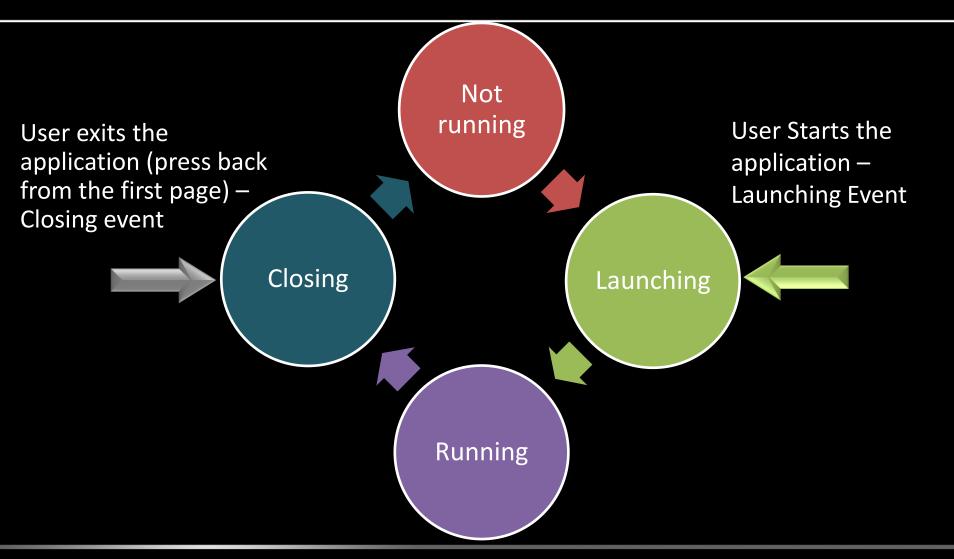
- Limited Battery Life
- Poor Network Connectivity
- Different Performance Characteristics
- Small Screens
- Many input mechanisms. (Touch & Accelerometer)
- Possible frequent interruptions

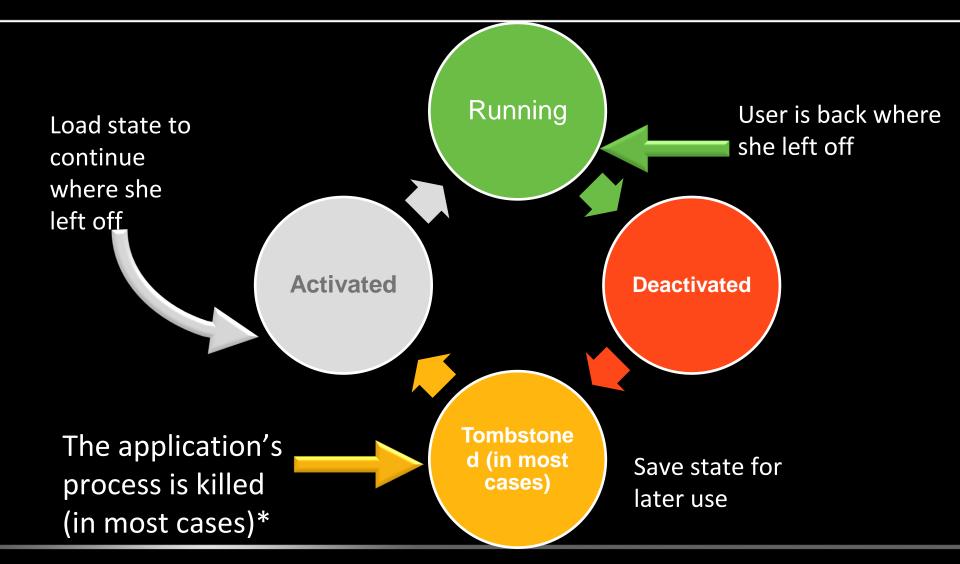


No Multi-tasking

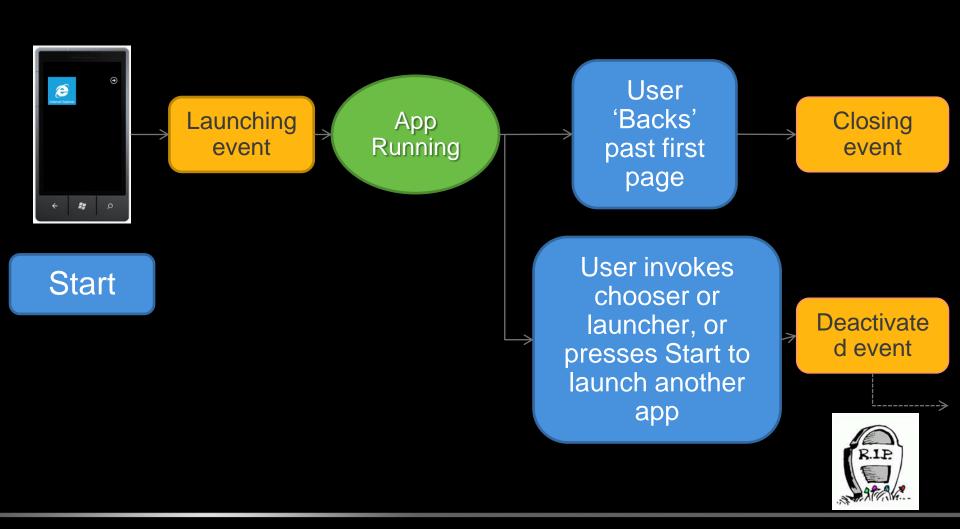


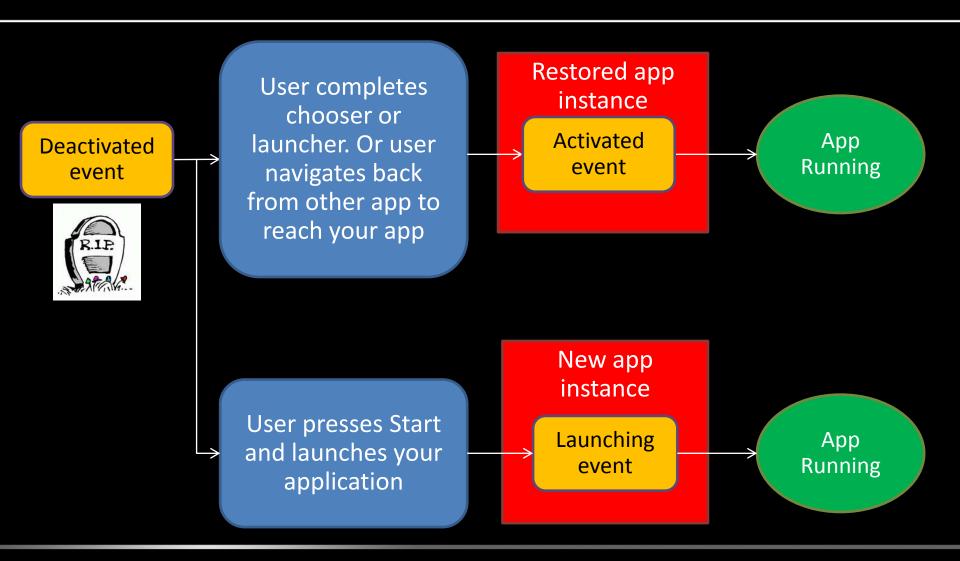






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Launchers and Choosers

Launchers & Choosers

- The Windows Phone execution model isolates every application in its own sandbox
 - Apps cannot directly access information stores, such as contacts
 - Apps cannot directly invoke other applications, such as phone or messaging
- Launchers and Choosers allow applications indirect access to these phone features
- Launcher and Chooser APIs invoke distinct built-in applications that replace the currently running application

Launchers & Choosers

Launcher

- Launches one of the built-in applications through which a user completes a task
- No data is returned to calling application
- Example: PhoneCallTask

Chooser

- Launches one of the built-in applications through which a user completes a task
- Returns some data to calling application
- When caller completes, calling application is reactivated and supplied with the Chooser result
 - Note, user can cancel the launcher, resulting in an empty return value
- Example: PhotoChooserTask

Launchers & Choosers

Launchers

- PhoneCallTask
- SearchTask
- SMSComposeTask
- WebBrowserTask
- EmailComposeTask
- MarketplaceDetailTask
- MarketplaceHubTask
- MarketplaceReviewTask
- MarketplaceSearchTask
- MediaPlayerLauncher

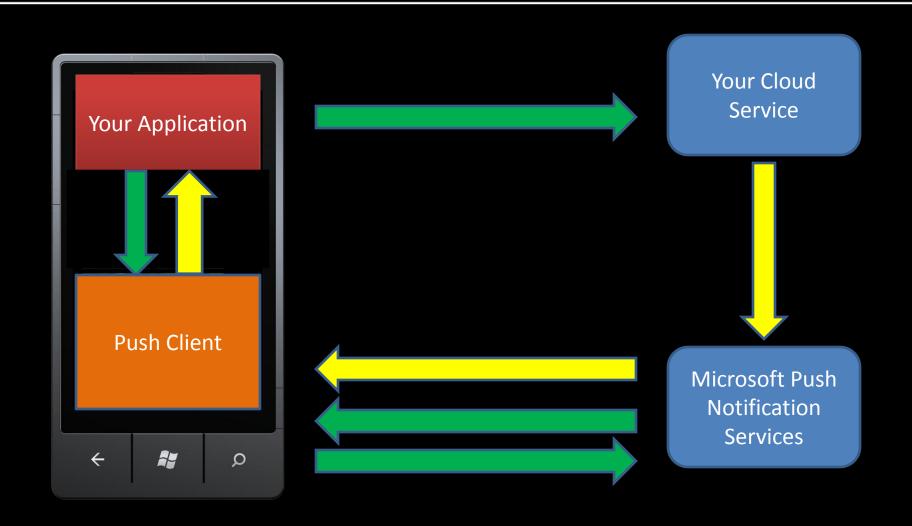
Choosers

- CameraCaptureTask
- EmailAddressChooserTask
- PhoneNumberChooserTask
- PhotoChooserTask
- SaveEmailAddressTask
- SavePhoneNumberTask

Demo no. 1

My First Windows Phone Silverlight Application

Push Notification



Thanks



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