

Cross-platform mobile development

C#

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Win a Chromecast!

http://carriere.infosupport.com/ik_wil_winnen



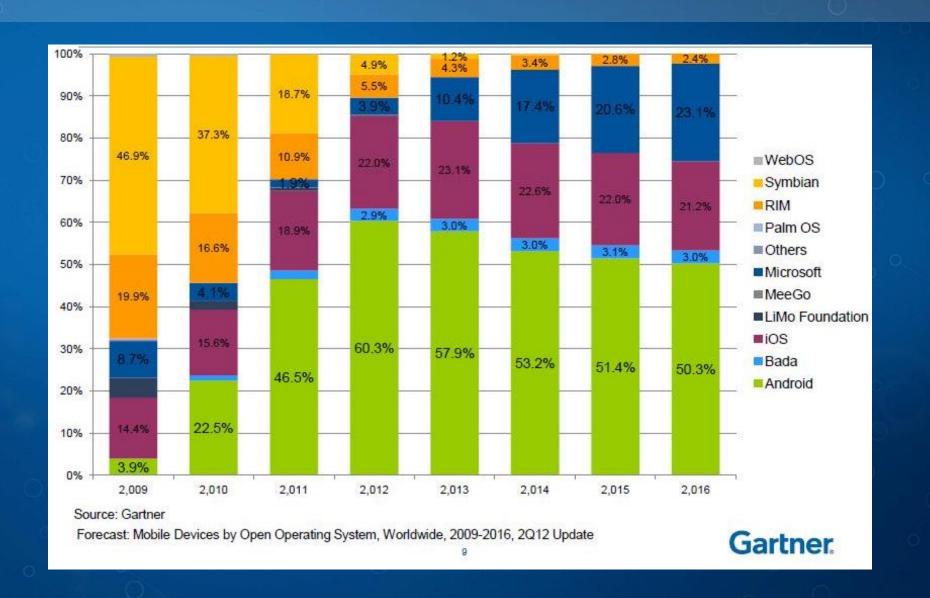


Survey



- WiFi: WLANFREE
- Pass: kenniscentrum

Prediction





Agenda



App development

Building mobile apps

User Experience

Distribution

Application Lifecycle Management



Developer productivity

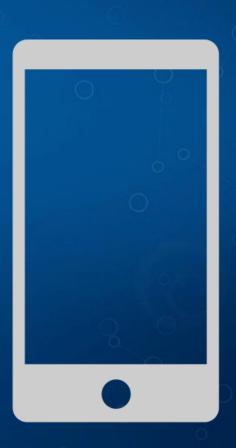
Security Privacy

Platforms

Application types







Application types

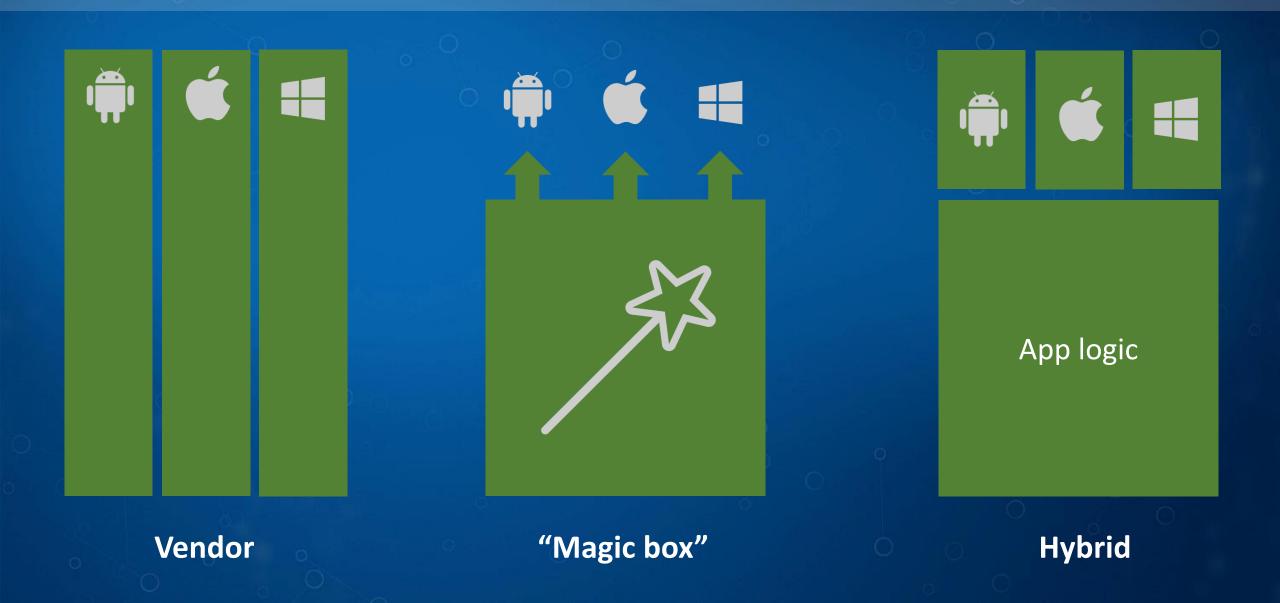
	HTML	HTML	
Native look & feel			++
Camera access		+-	++
GPS	++	++	++
Secure service communication	JSON/REST	JSON/REST	JSON/REST
Access to OS apps			++
Social media integration	+-	+-	+
Distribution	++	AppStore presence	AppStore presence

Mobile is personal

- Always with you
- Association with OS
- User experience is key







App logic

Shared language





App logic

Hybrid

Xamarin

- Xamarin.Android
- Xamarin.iOS





App logic

Hybrid

Visual Studio

XAML, WinRT





App logic

Hybrid

Mobile specific



Battery life

- To increase battery life, all platforms have a way of suspending apps
- There is no such thing as multitasking for apps
 - There is (fast) app switching
 - There are background processes
 - You can run under lock screen
 - Special case, additional certification requirements



CPU Power

- CPU cycles matter
 - 1~2 GHz ARM processor (average)
 - CPU cycles drain battery
- Rendering of UI on 1 thread
 - Ensure you do actual work on background threads
 - Switch to foreground only when UI interaction is need
 - E.g. Data binding, updating controls etc.



App architecture

App logic

Internet

Services







Xamarin History

