Mobile Application Development

@wesreisz

Introduction

Agenda

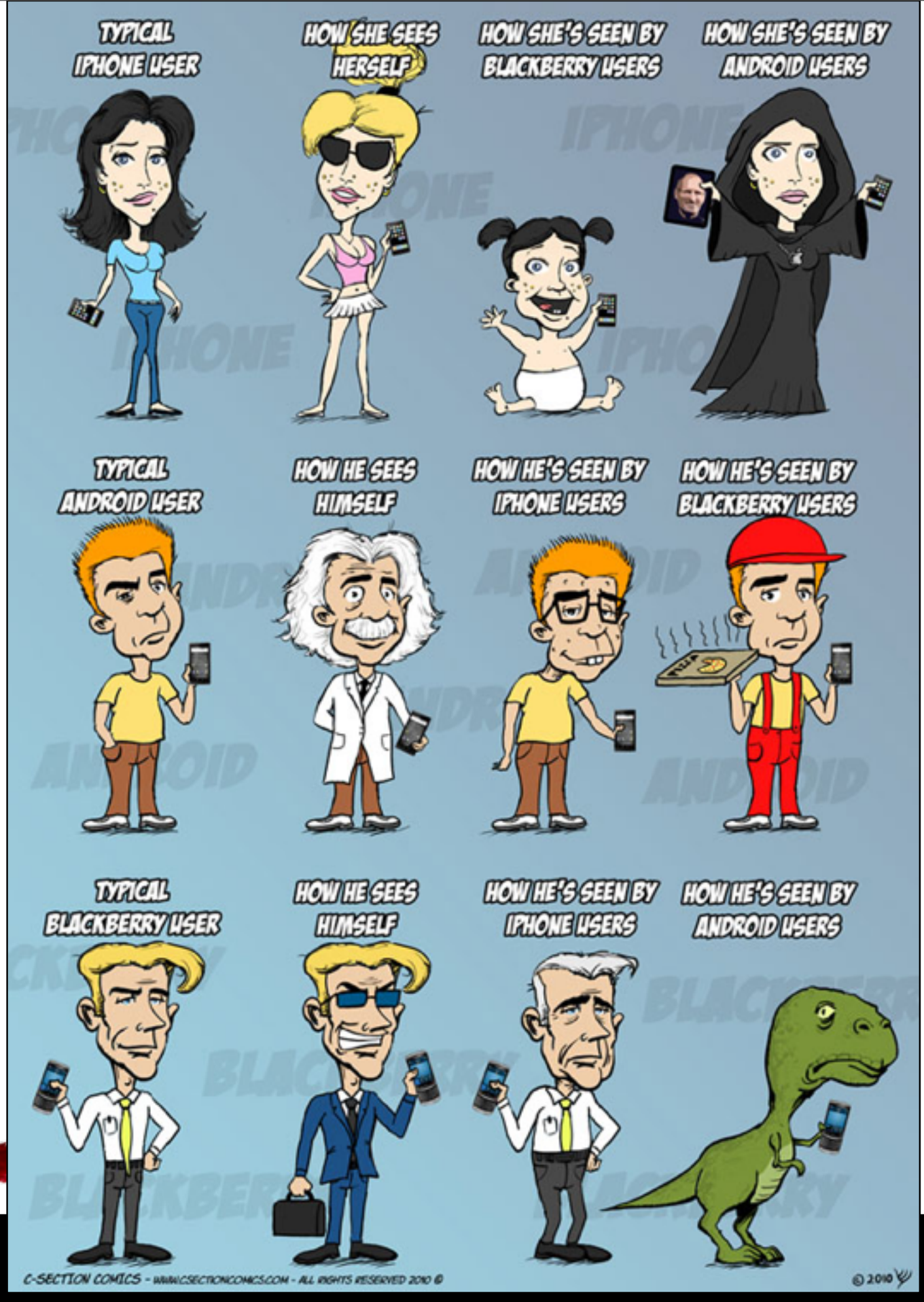
- Who I am
- Syllabus
- Schedule
- Mobility Mindmap
- Android History
- Sample Android Application
- IDE
- PragProg 3 Pillars
- Intro to Version Control

Mobility Overview

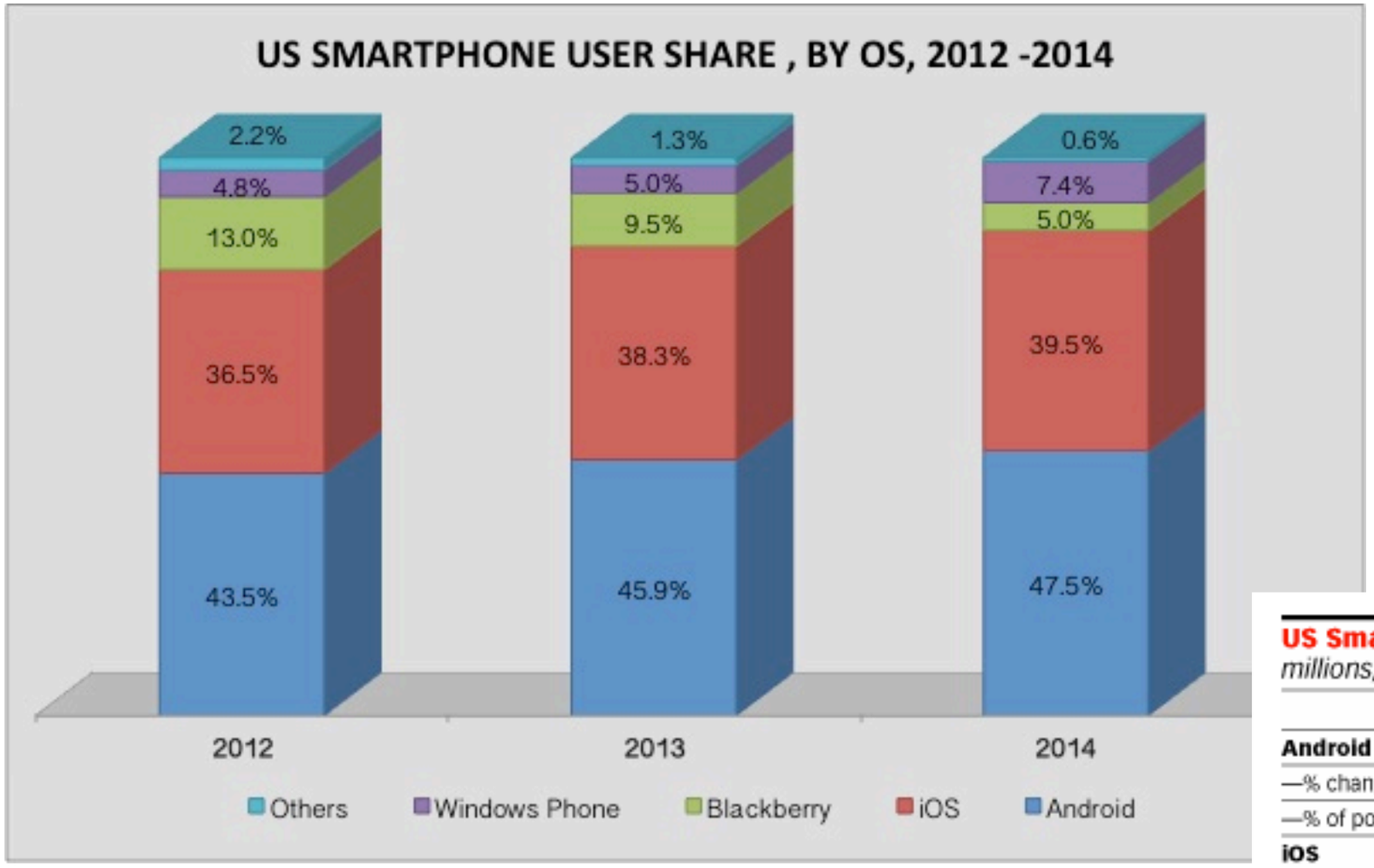
WESLEY REISZ

Mobility Mindmap

- Flavors of Java
  - Android vs JavaME
- Mobile Platform Wars
- Native vs HTML5
- Cross Compilation Tools
- Fragmentation vs Walled Garden



WESLEY REISZ



US Smartphone Users, by OS, 2011-2014
millions, % change and % of population

	2011	2012	2013	2014	CAGR
Android	**35.7**	**52.8**	**64.3**	**76.0**	**28.6%**
—% change	139.2%	47.8%	21.7%	18.2%	-
—% of population	11.5%	16.8%	20.3%	23.8%	-
iOS	**29.2**	**44.3**	**53.6**	**63.2**	**29.3%**
—% change	67.8%	51.5%	21.0%	17.8%	-
—% of population	9.4%	14.1%	16.9%	19.8%	-
BlackBerry	**18.6**	**15.8**	**13.3**	**11.8**	**-13.9%**
—% change	-0.6%	-15.0%	-15.7%	-11.1%	-
—% of population	6.0%	5.0%	4.2%	3.7%	-
Windows Mobile	**6.5**	**5.8**	**7.0**	**8.0**	**7.2%**
—% change	-5.1%	-10.3%	20.1%	14.2%	-
—% of population	2.1%	1.9%	2.2%	2.5%	-
Other	**2.8**	**2.7**	**1.8**	**1.0**	**-29.9%**
—% change	-36.1%	-4.1%	-31.9%	-47.3%	-
—% of population	0.9%	0.9%	0.6%	0.3%	-

Note: individuals of any age who own at least one smartphone and use the smartphone(s) at least once per month
Source: eMarketer, Aug 2013

161490 www.eMarketer.com

http://www.dazeinfo.com/2013/09/11/google-inc-us-smartphone-market-2013-2014-ios-android/

Android History

WESLEY REISZ

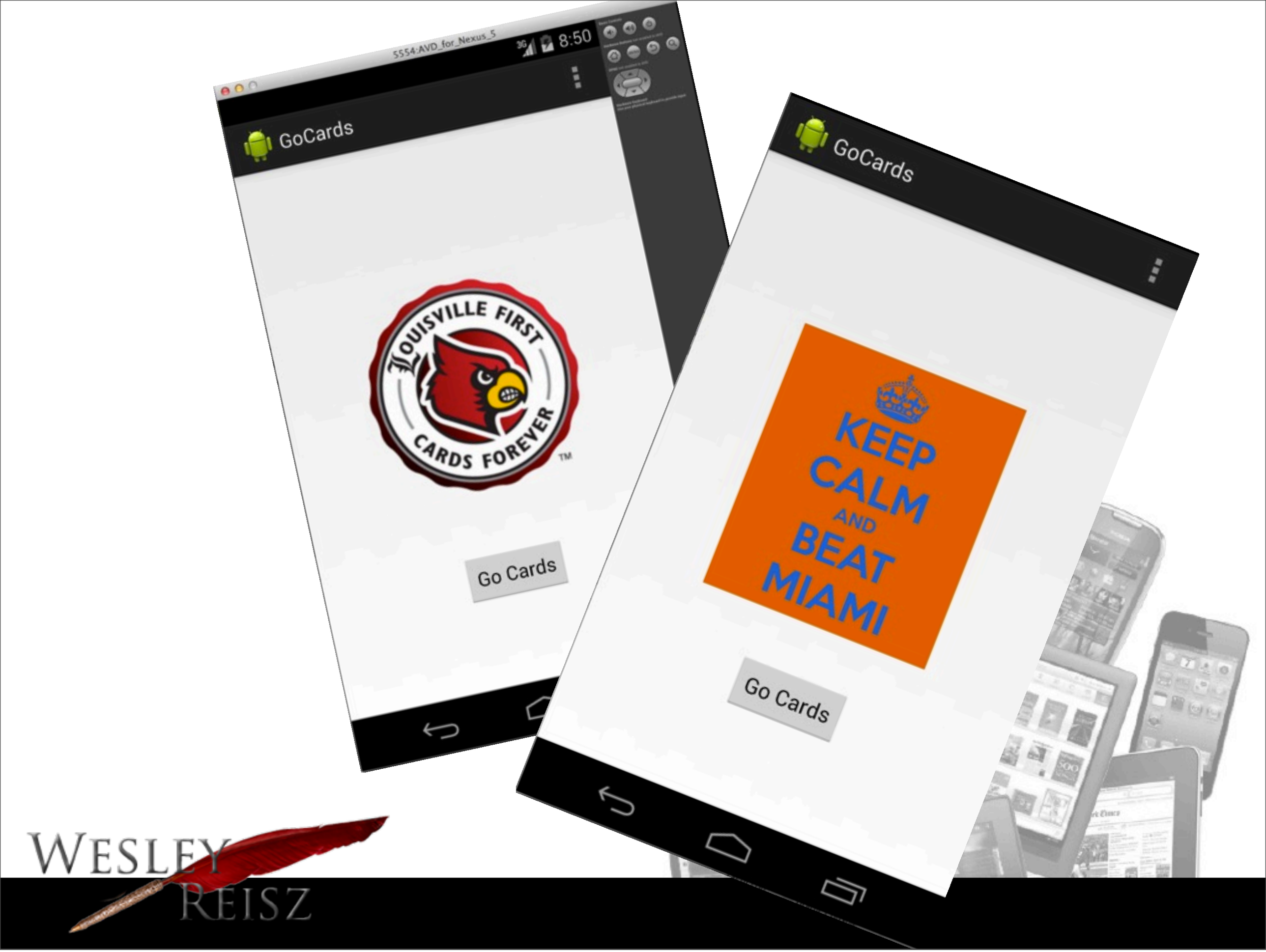
http://visual.ly/history-android

http://phandroid.com/2014/06/25/android-has-1-billion-active-users-in-the-past-30-days-and-other-interesting-numbers-from-io/

Sample Application

(Demo)

WESLEY REISZ



WESLEY REISZ

IDE

WESLEY REISZ

- Eclipse
  - Android Development Toolkit (ADT)
- IntellIJ
  - **Android Studio**

Few things to point out now:

- SDK Manager
- AVD Manager
- Running in an Emulator

Three Pillars

(Pragmatic Programmers)

WESLEY REISZ

- Version Control (Git / GitHub)
- Automation (Gradle)
- Unit Testing

Introduction to Version Control

Wesley Reisz

Introduction to Version Control

- Creating a GitHub Account
- Creating a GitHub Repository
- Connecting with Android Studio
- Uploading your Code
- GitHub for Windows and Commandline
- What to turn in

Agenda

- Who I am
- Syllabus
- Schedule
- Mobility Mindmap
- Android History
- Sample Android Application
- IDE
- PragProg 3 Pillars
- Intro to Version Control

Homework

WESLEY REISZ

- Read!!!
  - ***If you want to work through Java Samples, you'll need an IDE either Eclipse Luna or IntelliJ CE***
- Install Java SE
  - SDK, NOT JRE...
- Install Android Studio
- Install GitHub for Windows (or...)