

CSC 409
Special Topics in
Software Engineering:
Android Application Development
Winter 2010
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Welcome and Intro

- Privilege of teaching and taking this course
- Thanks to Google
- Android fever
 - Explosion of innovation in domain
 - Nexus One release 1/5/10
 - 21% of smartphone buyers plan to buy Android (up from 6%), iPhone 28% (down from 32%)
 - <http://247wallst.com/2010/01/04/google-android-starts-to-hurt-apple-iphone-share/>
 - Gartner predicts Android will be 2nd most popular in 2012
 - At least 40 new devices planned for 2010
 - http://www.computerworld.com/s/article/9139301/Symbian_Android_will_be_top_smartphone_OSes_in_12_Gartner_reiterates

A Super-Brief History of Mobile Phones

- 1908 first patent
- 1947 first base stations (no cells)
- 1979 first cell phone system in Japan
- 1984 first hand-offs between cells
- 1993 first data service and SMS text messages
- 1998 first ringtones sold
- 1996 Telecommunications Act
 - new spectrum, pole space, zoning board restrictions
- 1999 first internet on phone

<http://www.buzzle.com/articles/history-of-mobile-phones.html>

Course philosophy

- Student-focused, not instructor focused
- Assumptions:
 - 400-level competence
 - Java and Eclipse experience
 - SE experience (process, SCM)
- Entrepreneurial
- Transition to professional community
 - How-to's, blog
- Fun!

Approach

- Android
 - Breadth: labs, text, presentations
 - Depth: team project
- SE
 - Imposed process, practices
- Entrepreneurial
 - Evaluate other apps
 - Course project -> startup (Innovation Quest?)
 - Guest speakers

Syllabus

Assignments

- See Blackboard
- For Wednesday,
 - Read chapter 1 in text
 - Start on “Critical analysis of app”
 - Start on lab 1

Lab

- Check out G1's
- Setup G1's
 - Menu->Settings->SD card & phone storage -> Factory data reset
 - Google account
 - <https://sites.google.com/site/androidhowto/how-to-1/flash-dev-phone>
 - If not registered on Mustang Wireless, let me know
- Start Lab 1