



# MIT

## Global Startup Labs

<http://aiti.mit.edu>

Indonesia Summer 2013  
Meetup 01 – Introduction



# Introduction

Markus von Rudno

- Born in Germany
- Currently Master's student at Cambridge University
- Part of CME program 2012
- Now Technical Lead of AITI Indonesia 2013
- Anything else you want to know?

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Me Barbecuing

# Today's Meetup

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- Introduction
- Typical Class Structure
- Technical Curriculum
- Expectations
- Mobile Development
- Today's Assignment

# Typical Class Structure

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- Meetup at 1pm
  - Go over lab of day before – questions?
  - Introduce new concepts, set assignment
- Lab time (main part)
  - Learning by doing
  - Collaboration encouraged!
  - I will assist with assignments, answer questions

# Technical Curriculum

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- Week 1: Android Basics – Calculator
- Week 2: Advanced Android - Fakebook
- Week 3: Python and Django
  - Prototype to be delivered by end of week
- Week 4: More advanced project related topics
- Week 5 & 6: Code, code, code...

# Week 1 – Android Basics

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- Introductory Lecture
- Getting used to Android: „Hello World“
- Interface Design with XML
- (Java revision)
- Building your first Calculator app!

# Expectations

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What do you expect from this project?

# My Expectations

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- Be on time
- Participate! Share your knowledge
- Give me feedback!
- Help each other (and me)
- Hand in labs in time
- Enjoy the course!



# What if I'm stuck...??

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- Ask me!
- Ask in class! Good chance somebody already had that problem
- Piazza
  - Network of all AITI classes + instructors

# Question time! (My turn)

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- Do you have a smart phone?
- Do you have an Android phone?
- Do you own a laptop that you intend to use for this project?
- Are you familiar with Java, do you use Eclipse?
- Are you familiar with Python?
- Do you have a background in mobile development?

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# Mobile Development

# Mobile Development – Overview

	SMS/USSD Application	Mobile Web	Local Application
Installed Base	Everyone	Mostly Everyone	Many and growing
Portability	Best	Different Flavors (Browsers)	Phone Specific /Platform specific
Bandwidth Req.	Low	High (nothing local)	Variable (local interaction /cache locally)
User Interface / User Experience	Simple	Adequate	Rich & Responsive
Advanced Features	None	Few	Yes! (GPS, orientation, local networking)
Deployment	VASP	Web	App Store

# SMS & USSD Services

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- SMS (Short Message Service)
- USSD (Unstructured Supplementary Services Data)
- Both use GSM Protocol for information exchange

## Examples:

balance check (\*255#)

ringtones

weather given zipcode

twitter

# Mobile Web

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- Different Browsers (Safari/ Chrome/ ...)
- Examples:
  - Pretty much every webpage
  - [mobileawesomeness.com](http://mobileawesomeness.com)
- Use Django (Platform based on Python)

# Apps

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- Iphone/ Android/ Windows
- Smartphone components: Touch Screen (gestures), GPS, WiFi, Camera, Audio/Video recording + playback, sensors
- Use Android SDK platform for frontend app (Java + XML)
- Use Python or Ruby for backend

# Today's Assignment

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## Skills Assessment Test – Java

- Please do not collaborate
- If you cannot solve a problem, skip it
- See me for hints if you're stuck

**Let's get started!**