Welcome, स्वागताह

AITI IIT Bombay Class 2013
Lecture 2
Make a Nexus S AVD (this should load faster)
Start your AVD (These take a while, *sigh*)
Internet Access

• Please see the printouts for each OS
Agenda

• Activities
• Buttons
• Events
• Sharing data between activities
GUI’s Galore!!

• Activities, buttons and events help create a richer, more intuitive, less error-prone experience for the user. (and a faster experience if you do it right)
Activities

- Activities are different screens that represent “activities” for the user to complete
- Activities can contain buttons, strings, etc
- Graphical Layout data: activity_name.xml
- Behavior Programing: activity_name.java (source folder)
- Must be listed on the Android Manifest to show up in your app!!
Buttons

• Buttons are used by the user to perform a specific action
• Buttons respond to events, have event listeners
Events

• Events occur when the user interacts with the phone and its sensors in the physical world

• The operating systems translates this into “events” that you can use to create behavior

• Buttons and activities have events, and event listeners with associated functions that determine your app’s response / behavior.
The Old Days: Type Interfaces

• What are you supposed to do next???
• Need to know the commands ahead of time
• Doesn’t work with typos.
• Requires lots of effort on the part of the user!

• <headache>
GUI’s Galore!!

• Pick up and go!!
• No manual required!! Don’t make your users memorize anything
• Keep it simple -> Keep your users happy -> keep making $$!!
Fun with Calendar

• Open the calendar app on your AVD
Fun with Calendar

- Hover over one of the days and click the when you see the plus button to add an event
- Or, click the + button next to "Today"
Adding a new event

• We get a new screen to add a new event

• Uh oh, we don’t have an account, click the back button
What was required for this sequence?

How many, Activities, Buttons, Events, were used?
What was required for this sequence?

- 2 Activities

Activity 1

Activity 2
What was required for this sequence?

- 3 Events
What was required for this sequence?

- 2 Buttons
Complete the Android Tutorials

Building a Simple user interface
• http://developer.android.com/training/basics/firstapp/building-ui.html

Starting another activity
• http://developer.android.com/training/basics/firstapp/starting-activity.html