Android Dev, Part 3 of 3: Graphics, Bluetooth, and Tablets

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Meet the expert: Robert McHale has over 17 years of experience developing online systems and consulting in the computer, financial, and non-profit industries. He enjoys simplifying complex features of mobile platforms. He has developed training courses for both Android and iOS and has participated in Connections conferences since April 2000.

Prerequisites: This course assumes you have a basic understanding of how to use Eclipse and write Java code.

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Course description: The Advanced Android Development using Eclipse course will take a deeper look into developing applications for the Android OS. The course will start with Android XML HTTP then continue on to XML-RPC Service and more. Android graphics for simple 2D graphics are explained. Then the course will cover Bluetooth from accessing the hardware to creating web services and finishing up with Fragments, Adapters, List Views, and Arrays.

Course outline:

Android XML HTTP
- Introduction
- Android XMLHTTP Response
- Android Contacts via XMLHTTP
- Demo: XMLHTTP
- Summary

Android XML HTTP 2
- Introduction
- Android SDCard via XMLHTTP
- Demo: SDCard via XMLHTTP
- Summary

Web Server Authentication
- Introduction
- Web Server Authentication
- Demo: Web Server Authentication
- Summary

Android 2D Graphics Rectangles
- Introduction
- Android 2D Graphics
- Rectangles
- Demo: Rectangles
- Summary

Android 2D Graphics Circles
- Introduction
- Android 2D Graphics
- Circles
- Demo: Circles
- Summary

Android 2D Graphics Lines
- Introduction
- Android 2D Graphics
- Lines
- Demo: Lines
- Summary

Bluetooth Discovery
- Introduction
- Android Bluetooth Discovery
- registerReceiver()
- onReceive()
- Broadcast Receiver Extras
- Demo: Bluetooth Discovery
- Summary

Bluetooth Discovery Example
- Introduction
- Demo: Bluetooth Discovery Build Example
- Demo: Test the App
- Summary

Bluetooth Web Browser
- Introduction
- Bluetooth Web Browser
- Android Device #1
- Android Device #2
- BluetoothDevice
- BluetoothSocket
- Demo: Bluetooth Web Browser
- My Bluetooth Address
- Demo: My Bluetooth Address
- Summary

Bluetooth Web Browser Example
- Introduction
- Demo: Bluetooth Web Browser Build Example
- Demo: Send to Tablet
- Summary

Bluetooth Web Server
- Introduction
- Bluetooth Web Server
- Android Device #1
- Android Device #2
- BluetoothAdapter
- Bluetooth Socket
- Demo: Bluetooth Web Server
- Summary

Bluetooth Web Server Example
- Introduction
- Demo: Bluetooth Web Server Build Example
- Demo: Start the Project
- Summary

Fragments
- Introduction
- Fragments
- Demo: Fragments
- Summary

Fragments 2
- Introduction
- Demo: Fragments Build Example
- Demo: Rotate
- Summary

Adapters, Listviews, & Arrays
- Introduction
- Adapters, ListViews & Arrays
- Demo: Adapters, ListViews & Arrays
- Summary

Adapters, Listviews, Arrays 2
- Introduction
- Demo: Adapters, Listviews, Arrays Build Example
- Demo: Run the App
- Summary

Intents, Activities, & Extras
- Introduction
- Intents, Activities & Extras
- Intent
- Extras & Activity B
- Demo: Intents, Activities & Extras
- Summary

Intents, Activities, Extras 2
- Introduction
- Demo: Intents, Activities & Extras Build Example
- Demo: Run the App
- Summary