



# Accelerating Information Technology Innovation

<http://aiti.mit.edu>

India Summer 2012  
Review Session – Android and Web



# Working with Views

# Working with Views

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*Create a new Android project.  
The app name should be “My Review App”.*

# Working with Views

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*Add a button to your starter activity which has the name “Alert Me!” as a string resource*

# Working with Views

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*Make the button you created show a Toast notification.  
When it is clicked it should say “Hello!”  
 (“Hello!” should come from a string resource)*

# Working with Views

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*Add an EditText widget below the button with the placeholder text “Type some text” (from a string resource)*

*Add a TextView with the default text “0” (“0” should be a string resource)*

*The TextView should be to the right of the EditText*

# Working with Views

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*Change the button so that it divides 5 by the number in the EditText and saves the value in the TextView.*

*If the EditText value is not a number, the Toast should appear and say “Not a number”*

*If we find out that we are dividing by zero, the Toast should appear and say “Cannot divide by 0!”  
(Use an Exception to do this last bit)*

# Working with Views

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*Add a spinner and populate it with the string values from 1 to 10.*

*Populate it using an Adapter when the activity starts.*



# Working with Views

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*Change the button so that it divides the number in the spinner rather than 5.*

**Break!**

# Navigation

# Navigation

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*Add an item to the main activity's menu that says "List"  
("List" should come from a string resource)*

*Make it work in an Action Bar.*

# Navigation

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*Make the “List” menu item give a Toast notification that says “List” when it is clicked.  
(This can use the same string resource)*

# Navigation

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*Create a new activity named “ListActivity”.*

*Add a ListView to it.*

# Navigation

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*Change the “List” menu item so that it starts the ListActivity.*

# Navigation

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*Populate the ListView with the same numbers 1 through 10 that we used with the spinner.*



# Navigation

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*Make the ListView give a Toast notification containing the number clicked when a row in the ListView is clicked.*

**Break!**

# Accessing the Web

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*Open an `HttpURLConnection` to*  
*<`http://pipian.com/ip.php`>*

# Accessing the Web

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*Read in characters from the connection.  
Write them to a `StringBuffer`.*

*Close the connection.*

# Accessing the Web

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*Convert the `StringBuffer` to a `String` and print it.*