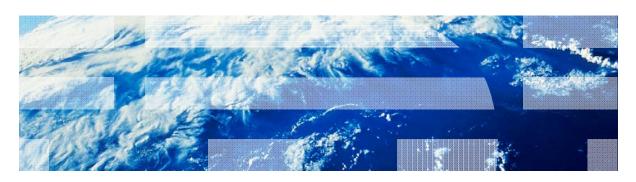


# IBM Worklight V6.0.0 Getting Started

#### Running Dojo Mobile-based Apache Cordova sample





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# Agenda

- General information
- Running the Apache Cordova Showcase sample for Android
- Running the Apache Cordova Showcase sample for iOS



#### About this task

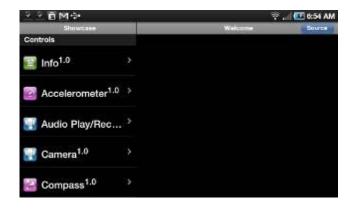
- The Apache Cordova Showcase delivers a sample that demonstrates how the Cordova APIs are used and how Cordova can be combined with Dojo to produce effective applications
- It is similar to the test application that is shipped as part of Cordova, but includes an improved look and feel which uses Dojo Mobile, resulting in an application with a layout similar to the Dojo Showcase
- The code is available within this release as an Eclipse project for Android and as an Xcode project for iOS



#### About this task

- The Apache Cordova Showcase works in two modes:
  - Single-column for devices with small screens
  - Two-column for devices with relatively large screens
- For Android:



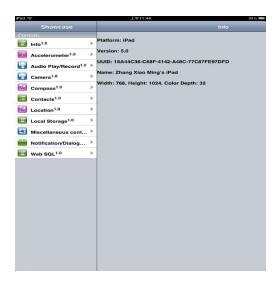




#### About this task

#### For iOS:







- The Android and iOS versions of the Apache Cordova Showcase have the same structure
- The following workflow is common to both versions when running the demo:
  - Load the Apache Cordova Showcase
    - The scrollable demo menu is displayed
      - Switched to the demo view in single-column mode
      - Displayed in the right column in two-column mode
  - Scroll the demo menu and click the demo item
    - The demo is loaded
  - Run the demo
    - Follow the instructions that are provided in Explore the demos



- Click Source to display the source view
  - Click the HTML tab to see the HTML template of the demo







- Click the JavaScript tab to see the corresponding JavaScript code for the demo
  - Note that not all demos have JavaScript code







- Click **Demo** to return to the demo view
  - In single-column mode, you can also click Back
- Select another demo from the demo menu
  - In single-column mode, click **Back** to return to the demo menu and pick other demos
  - In two-column mode, you can directly click items in the demo menu to jump to different demos



# Agenda

- General information
- Running the Apache Cordova Showcase sample for Android
- Running the Apache Cordova Showcase sample for iOS



## Before you begin

- See the following modules for how to build and deploy the Showcase:
  - Setting up your Worklight development environment
  - Setting up your Android development environment



#### Known limitations

There are some known limitations in this Showcase. The following instructions describe how to implement workarounds to these limitations:

- Zooming on Android tablets
  - On Android 3.0+ tablets, the Showcase is automatically zoomed which gives a poor user experience
  - To disable zooming, perform the following steps to set the SDK version to 11 or above:
    - Right-click the generated Android project and then Properties



- Click Android in the properties list
- Change Project Build Target to Android 3.0 or above and click OK
- Edit AndroidManifest.xml in the root of the generated project
  - Set android:minSdkVersion to the API level of the Project Build Target

```
</application>
<uses-sdk android:minSdkVersion="15" />
</manifest>
```



#### Known limitations

- Enable Showcase features
  - Edit AndroidManifest.xml in the root of the generated project
    - Add the following permission elements:

g r g r	
<pre><uses-permission android:name="android.permission.CAMERA"></uses-permission></pre>	Allows access to the camera device
<pre><uses-permission android:name="android.permission.VIBRATE"></uses-permission></pre>	Allows access to the device vibrator
<pre><uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION"></uses-permission></pre>	Allows access to a coarse location such as Cell-ID or WiFi
<pre><uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"></uses-permission></pre>	Allows access to a fine location such as GPS
<pre><uses-permission android:name="android.permission.ACCESS_LOCATION_EXTRA_COMMANDS"></uses-permission></pre>	Allows access to extra location provider commands
<pre><uses-permission android:name="android.permission.READ_PHONE_STATE"></uses-permission></pre>	Allows read only access to phone state
<pre><uses-permission android:name="android.permission.INTERNET"></uses-permission></pre>	Allows network sockets to be opened
<uses-permission android:name="android.permission.RECEIVE_SMS"></uses-permission>	Allows incoming SMS messages to be monitored, recorded, or processed
<uses-permission android:name="android.permission.RECORD_AUDIO"></uses-permission>	Allows audio to be recorded
<pre><uses-permission android:name="android.permission.MODIFY_AUDIO_SETTINGS"></uses-permission></pre>	Allows global audio settings to be modified
<pre><uses-permission android:name="android.permission.READ_CONTACTS"></uses-permission></pre>	Allows user's contacts data to be read
<uses-permission android:name="android.permission.WRITE_CONTACTS"></uses-permission>	Allows user's contacts data to be written (but not read)
<pre><uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE"></uses-permission></pre>	Allows external storage to be written to
<pre><uses-permission android:name="android.permission.ACCESS_NETWORK_STATE"></uses-permission></pre>	Allows access to network information
<pre><uses-permission android:name="android.permission.ACCESS_WIFI_STATE"></uses-permission></pre>	Allows access to Wi-Fi network information

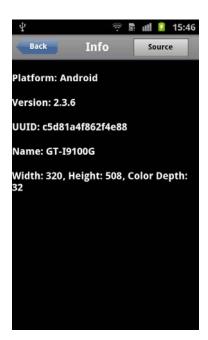
Please also check the product Release Notes for information about known defects



Run a demo by selecting any entry in the demo menu



- Info
  - Check that the information displayed is similar to what is shown on the right





- Accelerometer
  - Click **Get Acceleration** to populate the X, Y, and Z attributes
    - Actual values depend on whether the device was moving when the button was pressed
  - Click Start Watching Accelerometer
    - Status set to Running
    - X, Y, and Z values continuously update
  - Click Stop Watching Accelerometer
    - Status set to Stopped
    - X, Y, and Z values stop updating





- Audio Play/Record
  - Internet Audio
    - Click Play/Unpause Internet Audio to hear music play\*
    - Click Pause Playing Audio to pause the music
    - Click Play/Unpause Internet Audio again to resume play\*
    - Click Stop Playing Audio to stop play
  - Local Audio
    - Click Play/Unpause Local Audio to hear speech play
    - Click Pause Playing Audio to pause the speech
    - Click Play/Unpause Local Audio again to resume play
    - Click Stop Playing Audio to stop play

<sup>15:48</sup> Audio Back Source Audio Status: **Duration:** Position: Action Play/Unpause Internet Audio Play/Unpause Local Audio **Pause Playing Audio** Stop Playing Audio

<sup>\*</sup> Assumes a working network connection



- Audio Play/Record
  - Recorded Audio
    - Click Record Audio for 10 seconds to start recording
      - Notification beep may be heard
      - Status set to Running
    - Talk into the microphone for 10 seconds
      - Notification beep sounds again
      - Status set to Stopped
    - Click Play/Unpause Recorded Audio to play back recorded audio
    - Click Pause Playing Audio to pause playback
    - Click Play/Unpause Local Audio again to resume play





- Camera
  - Click **Take Picture** to switch to your camera application
  - Take and save a picture
    - Control returns to the demo
    - Picture image is displayed
    - Status set to Success
  - Click Select Image from Library to switch to your image library application
  - Select an image
    - Control returns to the demo
    - Selected image is displayed
    - Status set to Success

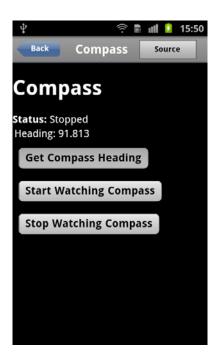




Compass

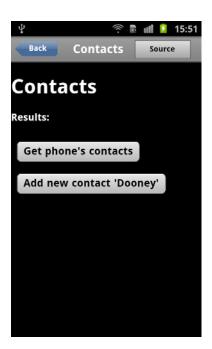
21

- Click Get Compass Heading to populate Heading attribute with current compass heading
- Click Start Watching Compass
  - Status set to Watching
  - Heading value continuously updates as device changes direction
- Click Stop Watching Compass
  - Status set to Stopped
  - Heading value stops updating



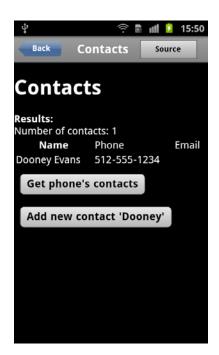


- Contacts
  - Click Get phone's contacts to display a list of contacts in your device



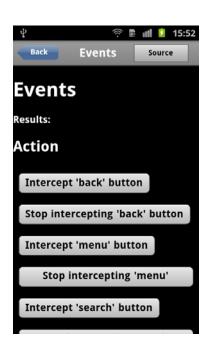


- Contacts
  - Click Add new contact 'Dooney' to add a contact to your device
    - An error message is displayed if contact exists
  - Click Get phone's contacts again to verify that the list of contacts now includes the new entry for Dooney





- Events
  - Click Intercept 'back' button to intercept Back button clicks, then click Back on your device
    - Message 'Back button intercepted' is displayed
  - Click Stop intercepting 'back' button to switch intercept off
  - Click Intercept 'menu' button to intercept Menu button clicks, then click Menu on your device
    - Message 'Menu button intercepted' is displayed
  - Click Stop intercepting 'menu' to switch intercept off





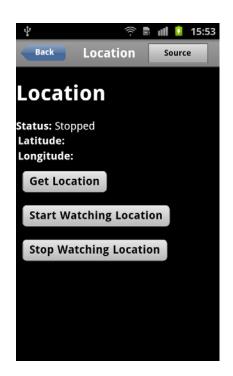
- Events
  - Click Intercept 'search' button to intercept Search button clicks, then click Search on your device
    - Message 'Search button intercepted' is displayed
  - Click Stop intercepting 'search' to switch intercept off





- Location\*
  - Click Get Location to populate Latitude and Longitude attributes with current location
  - Click Start Watching Location
    - Status set to Watching
    - Latitude and Longitude values continuously update as device moves
  - Click Stop Watching Location
    - Status set to Stopped
    - Latitude and Longitude values stop updating

\* Assumes a working GPS or wirelessbased location





- Local Storage
  - Note the value of the counter that is displayed in the message
  - Exit the Showcase, restart it, and reselect Local Storage
  - Check that the counter is incremented by one
    - The counter does not increment simply by leaving this view and coming back; you must exit the Showcase



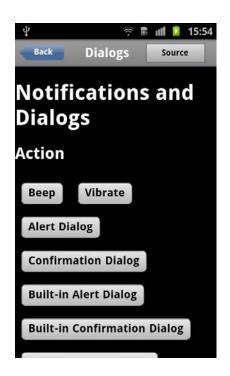


- Miscellaneous content
  - Click Call 911 to initiate a call to 911 (emergency assistance in the US and Canada)
    - If your device is not call-enabled, an error message is displayed
  - Click Send Mail to switch to your mail application
    - To:, Subject:, and Body fields are pre-populated with test data
  - Click Send SMS to switch to your SMS application
  - Click Load Web Page to switch to your browser application
  - Click Map IBM HQ to switch to Google Maps and locate IBM HQ
  - Click Search Android Market to switch to the Android Market application
  - Click View Image App to switch to your image viewing and manipulation application
    - Note: This feature is not supported on Android 3.x devices





- Notification/Dialogs
  - Click Beep to cause your device to beep
  - Click Vibrate to cause your device to vibrate, if the device is capable
  - Click Alert Dialog
    - An alert window with Continue pops up
  - Click Confirmation Dialog
    - A confirmation window with Yes, No, and, Maybe pops up
      - Click one of those buttons to pop up another alert indicating which button was pressed
  - Click Built-in Alert Dialog
    - An alert window with **OK** pops up
  - Click Built-in Confirmation Dialog
    - A confirmation window with **OK** and **Cancel** pops up



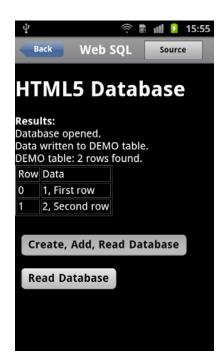


- Notification/Dialogs
  - Click Built-in Prompt Dialog
    - A prompt window with an input field and OK and Cancel pops up
    - Click in the input field to get a keyboard widget
    - Change the text and click either button





- Web SQL
  - Click Create, Add, Read Database
    - Results show:
      - Database opened
      - Data written to DEMO table
      - SQL search results





- Web SQL
  - Click Read Database
    - Results show a different SQL search result set

#### Note

- If the database has not been created since your last install of the Showcase, clicking Read Database before Create, Add, Read Database displays an error message
- The database persists until the Showcase is reinstalled





#### Related information

 For more information about Dojo Mobile widgets, including views, see the following link: <a href="http://docs.dojocampus.org/dojox/mobile">http://docs.dojocampus.org/dojox/mobile</a>



# Agenda

- General information
- Running the Apache Cordova Showcase sample for Android
- Running the Apache Cordova Showcase sample for iOS



## Before you begin

- See the following modules for how to build and deploy the Showcase:
  - Setting up your Worklight development environment
  - Setting up your iOS development environment



#### Known limitations

There are some known limitations in this Showcase. The following instructions describe how to implement workarounds to these limitations:

- Importing a Worklight® project
  - The import window does not close when importing an existing project into the workspace for the first time
  - This behavior is a known Eclipse defect
    - https://bugs.eclipse.org/bugs/show\_bug.cgi?id=337913
  - To resolve this situation, perform the following steps:
    - Exit the Worklight Studio
      - Right-click the Eclipse icon and then Close
    - · Restart the Worklight Studio
    - Delete the partially imported project from the workspace
    - Import the project again
      - The project is successfully imported





#### Known limitations

- Screen rotation
  - Apache Cordova disables screen rotation by default
  - To enable free rotation, perform the following step:
    - Edit CDVMainViewController.m
      - Update method shouldAutorotateToInterfaceOrientation to always return YES in the generated native Xcode project

```
- (BOOL) shouldAutorotateToInterfaceOrientation: (UIInterfaceOrientation) interfaceOrientation
{
    // Return YES for supported orientations
    return (interfaceOrientation == YES);
}
```

Please also check the product Release Notes for information about known defects



Run a demo by selecting any entry in the demo menu

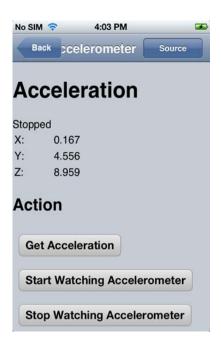


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- Accelerometer
  - Click **Get Acceleration** to populate the X, Y, and Z attributes
    - Actual values depend on whether the device was moving when the button was pressed
  - Click Start Watching Accelerometer
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  - Click Stop Watching Accelerometer
    - Status set to Stopped
    - X, Y, and Z values stop updating





94%

Source

## Explore the demos

- Audio Play/Record
  - Internet Audio
    - Click Play/Unpause Internet Audio to hear music play\*
    - Click Pause Playing Audio to pause the music

No SIM 奈

Back

Audio

11:45

Audio

Status: **Duration:** Click Play/Unpause Internet Audio Position: again to resume play\* Click Stop Playing Audio to stop play Action Local Audio Click Play/Unpause Local Audio to Play/Unpause Internet Audio hear speech play Click Pause Playing Audio to pause Play/Unpause Local Audio the speech Click Play/Unpause Local Audio again Pause Playing Audio to resume play Click **Stop Playing Audio** to stop play

Assumes a working network connection



- Audio Play/Record
  - Recorded Audio
    - Click Record Audio for 10 seconds to start recording
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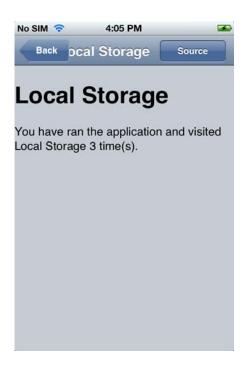
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 Assumes a working GPS or wirelessbased location





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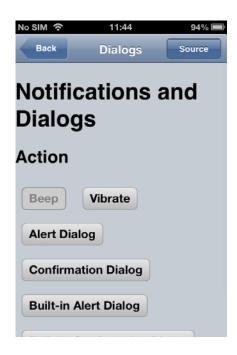


- Miscellaneous content
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- Notification/Dialogs
  - Beep is not supported on iOS devices
  - Click Vibrate to cause your device to vibrate, if the device is capable
    - Note: This feature is not supported on iOS 6 devices
  - Click Alert Dialog
    - An alert window with Continue pops up
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