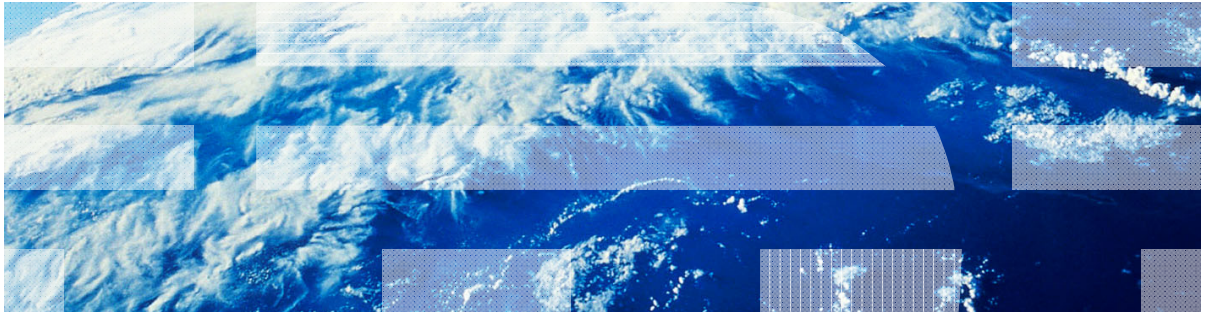


IBM Worklight V5.0.5 Getting Started

Module 60.1 – Running the Dojo-based sample



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Agenda

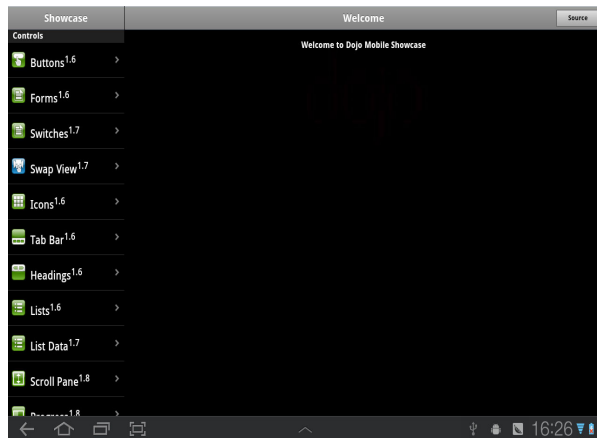
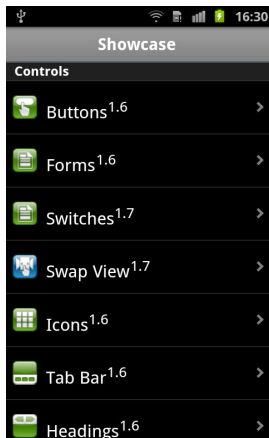
- General information
- Running the Dojo-based sample for Android
- Running the Dojo-based sample for iOS

About this task

- The Dojo Showcase is a hybrid mobile application designed for several mobile devices
- It features various Dojo mobile widgets and illustrates their function in web and hybrid applications for mobile platforms

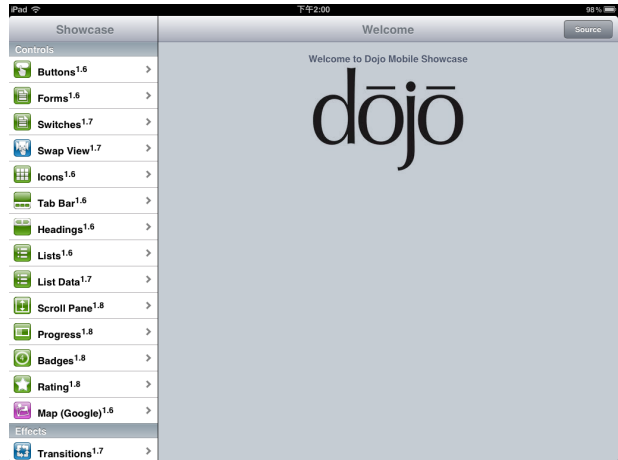
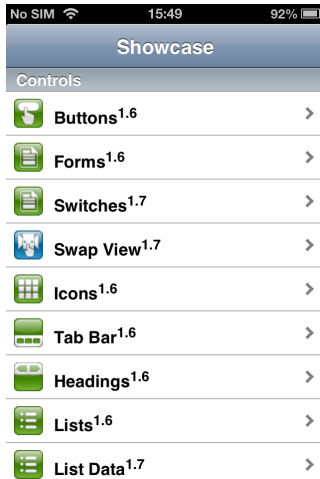
About this task

- The Dojo 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:

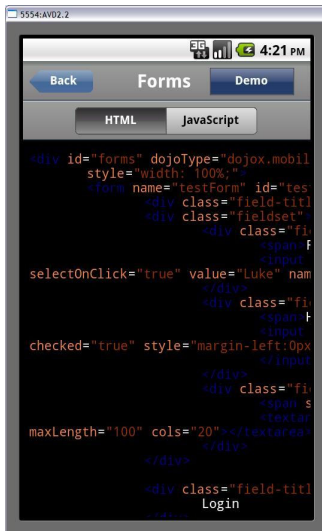


Generic workflow

- The Android and iOS versions of the Dojo Showcase have the same structure
- The following workflow is common to both versions when running the demo:
 - Load the Dojo Showcase
 - The demo menu is displayed, grouped into three sections: Controls, Effects, and Data
 - 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**

Generic workflow

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



```
<div id="forms" dojoType="dojox.mobil
style="width: 100%;"
  <form name="testForm" id="tes
    <div class="field-titl
    <div class="fieldset"
      <div class="fi
        <span f
          <span
            selectOnClick="true" value="Luke" nam
              <div
                <div class="fi
                  <span t
                    <input
                      checked="true" style="margin-left:0px
                        </div>
                          <div class="fi
                            <span s
                              <textar
                                maxLength="100" cols="20"></textarea>
                                  </div>
                                    <div class="field-titl
                                      Login
```



```
<div id="forms" dojoType="dojox.mobil
style="width: 100%;"
  <form name="testForm" id="tes
    <div class="field-titl
    <div class="fieldset"
      <div class="f
        <span
          <input
            selectOnClick="true" value="Luke" nam
              </div>
                <div class="f
                  <span
                    <input
                      checked="true" style="margin-left:0px
                        </inp
                          </div>
                            <div class="f
                              <span
                                <text
                                  height:16px;">Goals</span>
                                    <text
                                      maxLength="100" cols="20"></textarea>
```


Generic workflow

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

The screenshot shows a mobile application window with a title bar '5554AV02.2'. The main content area has a header with 'Back' and 'Forms' buttons, and a 'Demo' button. Below the header are two tabs: 'HTML' and 'JavaScript'. The 'JavaScript' tab is selected, displaying the following code:

```
define(["dojo/dom", "dojo/on", "dijit/r
    "dojox/mobile/TextBox"
template HTML
    "dojox/mobile/TextAre
    "dojox/mobile/CheckBo
    "dojox/mobile/RadioBu
    "dojox/mobile/Slider"]
return {
  init: function(){
    registry.byId(
      on(registry.by
        // roll
        dom.byI
        registr
        registr
        registr
        registr
      });
  }
};
```

The screenshot shows a mobile application window with a title bar 'No SIM' and '3:48 PM'. The main content area has a header with 'Back' and 'Forms' buttons, and a 'Demo' button. Below the header are two tabs: 'HTML' and 'JavaScript'. The 'HTML' tab is selected, displaying the following code:

```
define(["dojo/dom", "dojo/on", "dijit/r
    "dojox/mobile/TextBo
template HTML
    "dojox/mobile/TextAre
    "dojox/mobile/CheckBo
    "dojox/mobile/RadioBu
    "dojox/mobile/Slider"
return {
  init: function(){
    registry.byId
      on(registry.b
        // ro
        dom.b
        regis
        regis
        regis
        regis
      });
  }
};
```

Generic workflow

- 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 Dojo-based sample for Android
- Running the Dojo-based sample for iOS

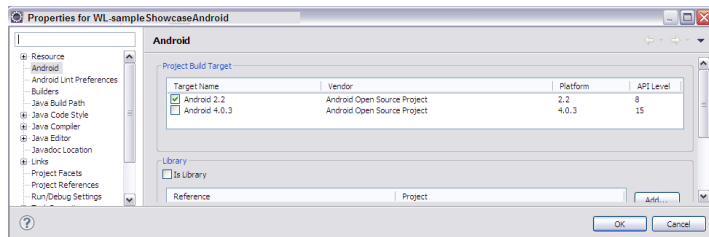
Before you begin

- See the following modules for how to build and deploy the Showcase:
 - Module 2 Setting Up Your Development Environment
 - Module 2.2 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:

<code><uses-permission android:name="android.permission.ACCESS_COARSE_LOCATION" /></code>	Allows access to a coarse location such as Cell-ID or WiFi
<code><uses-permission android:name="android.permission.ACCESS_FINE_LOCATION" /></code>	Allows access to a fine location such as GPS

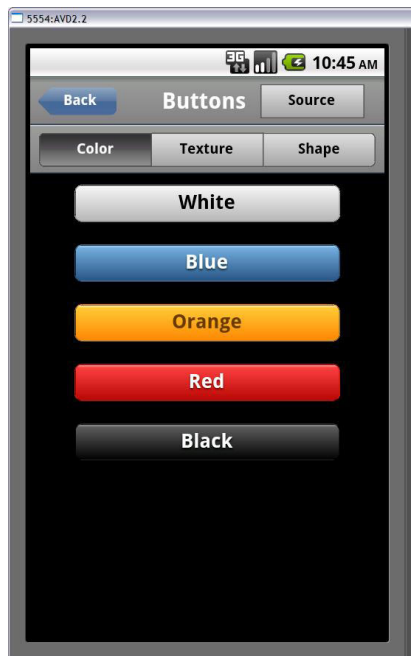
- Please also check the product Release Notes for information about known defects

Explore the demos

- Run a demo by selecting any entry in the demo menu

Explore the demos

- Buttons
 - Check that the colors, textures, and shapes are correct



Explore the demos

- Forms
 - Check that the input operations on all controls work correctly
 - Click **Reset Form** to reset fields to their default values

Alerts

Issue alerts for:

All messages

Urgent messages only

Audible alerts: OFF

Alert volume

Reset Form

5554:AVD2.2

3G 10:46 AM

Back Forms Source

Personal Data

Full name

Hide birthdate

Goals

Login

User name*

Password*

Alerts

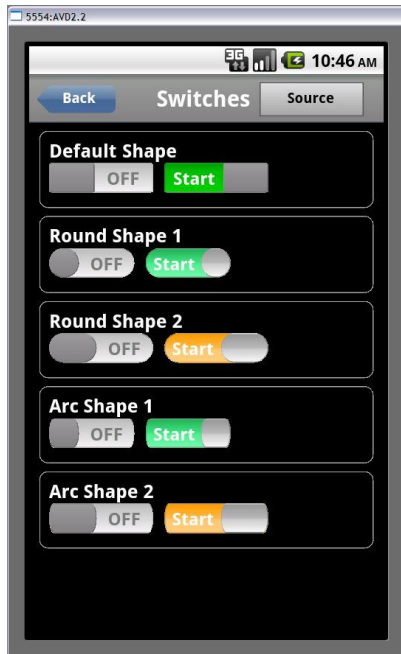
Issue alerts for:

All messages

Urgent messages only

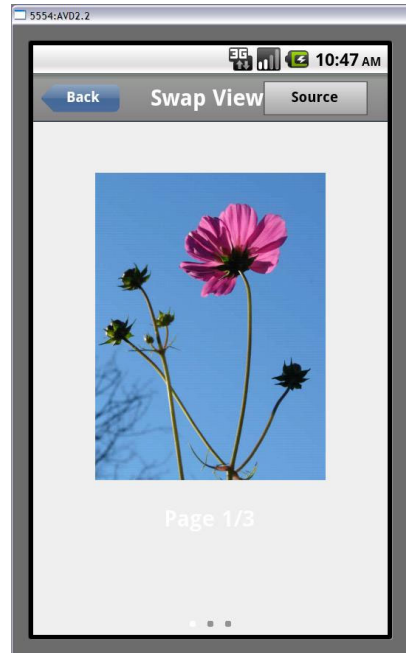
Explore the demos

- Switches
 - Check that the styles and operations work correctly




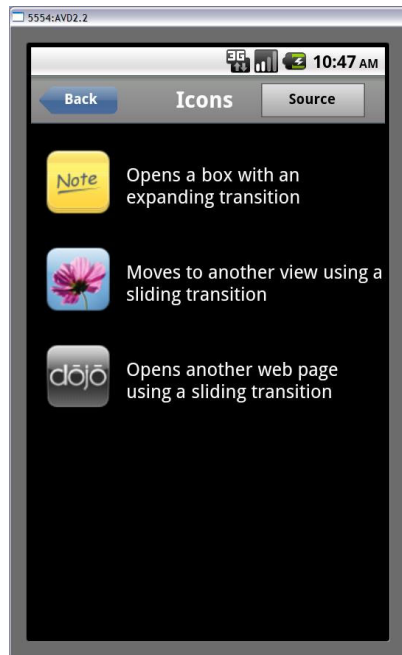
Explore the demos

- Swap View
 - Swipe left and right to swap views
 - Note that if the swipe offset is not large enough, the view bounces back



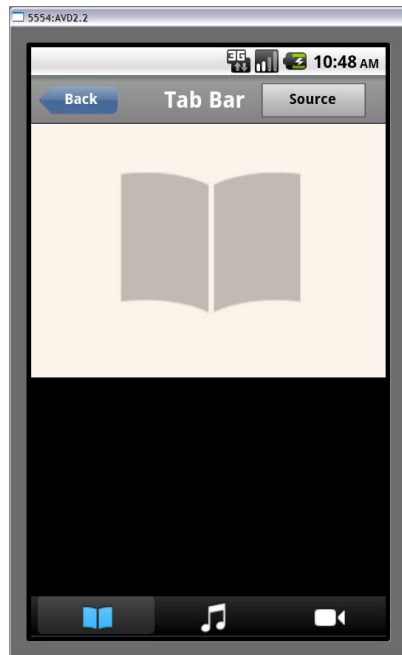
Explore the demos

- Icons
 - Note: Opens a note book box
 - Click  to close it
 - Flower: Changes to another view with a sliding transition
 - Dojo: Opens a web page with a sliding transition



Explore the demos

- Tab Bar
 - Click each icon on the tab bar to switch the view above



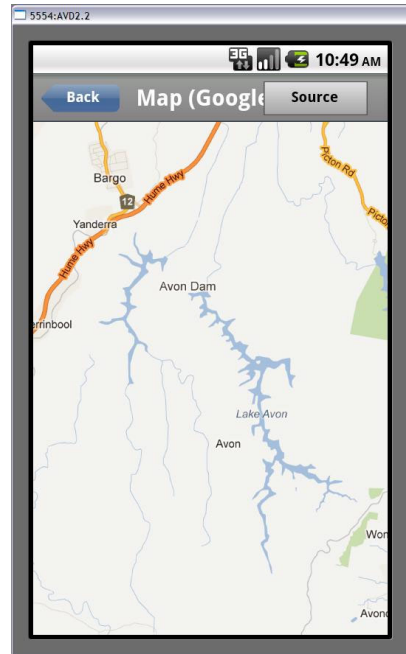
Explore the demos

- Headings
 - Check that the styles are correct
 - Check that each button click is reflected in the text below



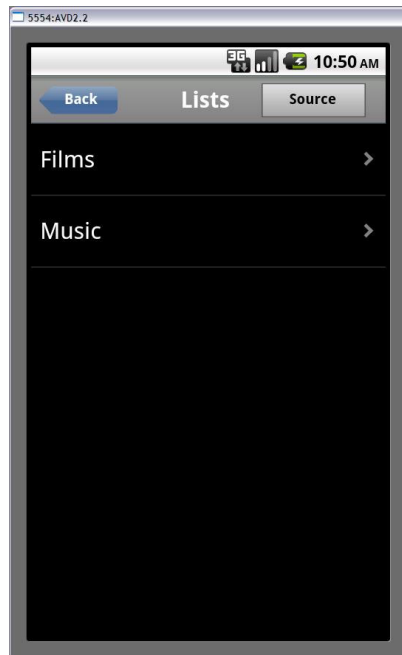
Explore the demos

- Map (Google)
 - Check that Google Maps works correctly
 - If Geolocation is enabled, by default the current position is located and marked on the map



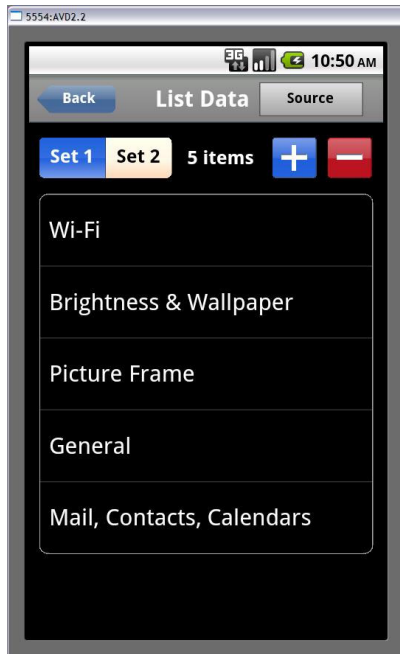
Explore the demos

- Lists
 - Check that navigation between lists works correctly



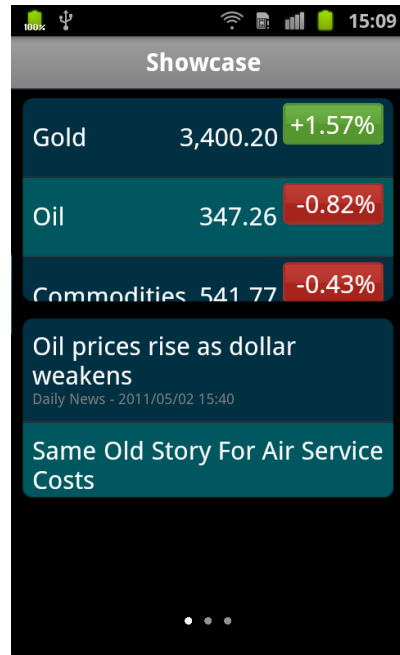
Explore the demos

- List Data
 - Click + and - to add or remove current list items
 - Click **Set 1** and **Set 2** to toggle between two lists



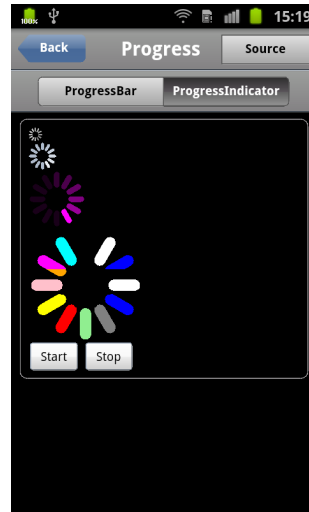
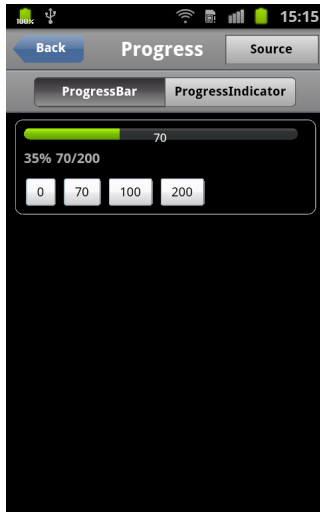
Explore the demos

- Scroll Pane
 - Check that the top table is vertically scrollable
 - Check that the bottom table is horizontally scrollable



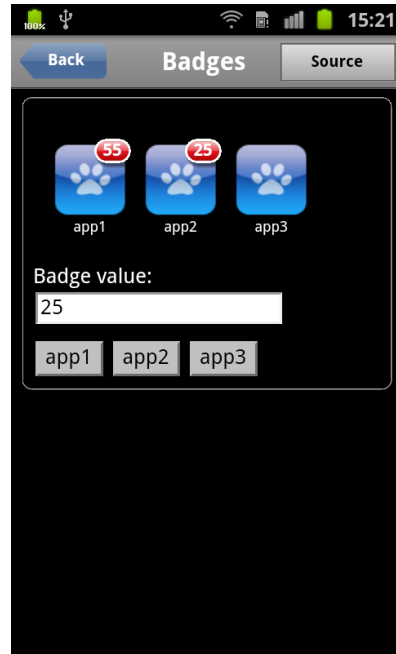
Explore the demos

- Progress
 - ProgressBar: Click **0**, **70**, **100**, and **200** to control the progress bar
 - ProgressIndicator: Click **Start** and **Stop** to control the progress indicator



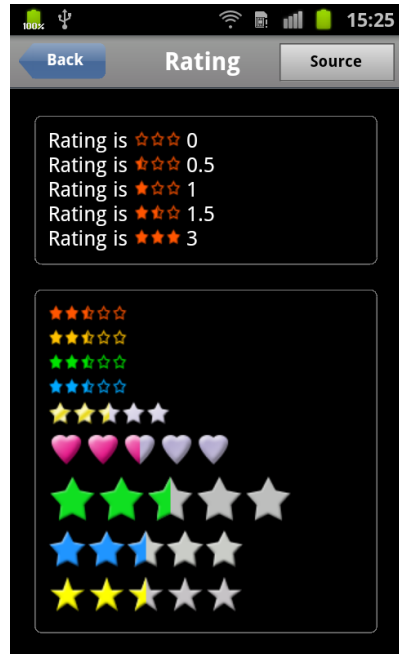
Explore the demos

- Badges
 - Enter a numeric value in the **Badge value** field – *badge_value*
 - Click **app1**, **app2**, and **app3** to display *badge_value* on the respective icon



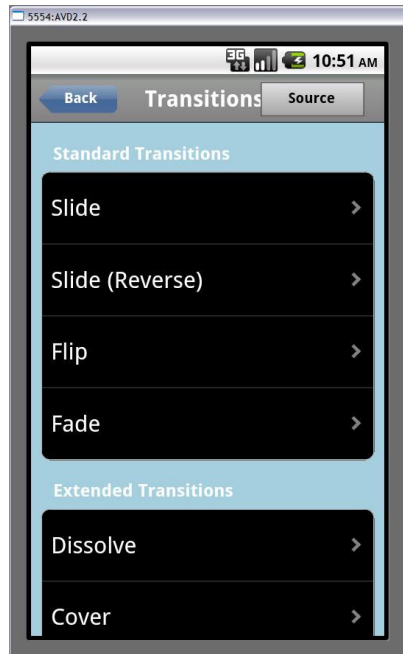
Explore the demos

- Rating
 - Shows the different rating styles that are supported by Dojo



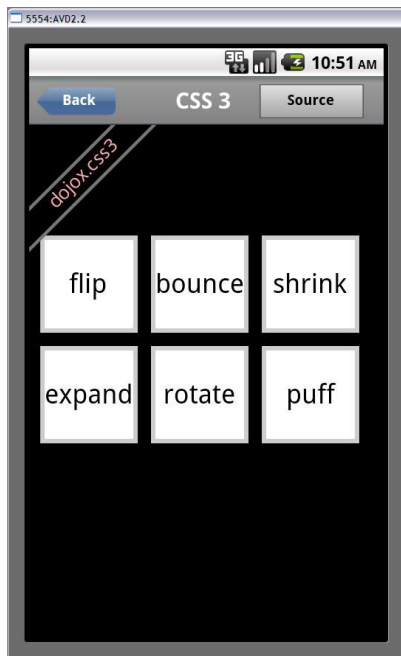
Explore the demos

- Transitions
 - Check that each animation effect works correctly
 - Note:
 - On mobile devices, only Safari mobile on iOS correctly supports all animation effects
 - On desktops, Chrome and Safari correctly support all animation effects



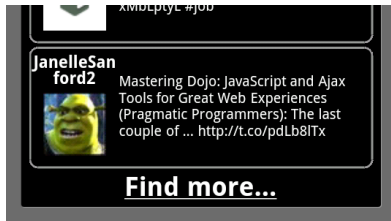
Explore the demos

- CSS 3
 - Check that each CSS 3 animation effect works correctly



Explore the demos

- JSON P
 - Check that Twitter search results are displayed
 - Progressive loading of more search results is supported by clicking the link at the bottom



Explore the demos

- AJAX
 - Click **Load using AJAX** to load the following content:
 - Text string "I'm using Dojo."
 - Dojo icon
 - Link to Dojo Toolkit website



Explore the demos

- HTML5
 - Click **Show Map** to see your location marked on Google Maps
 - If Geolocation is enabled, the current position is located and marked on the map
 - Enter travel log details in the input area
 - Travel log details are automatically saved every 30 seconds
 - Click **New** to delete the current travel log and create a new one



Related information

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

Agenda

- General information
- Running the Dojo-based sample for Android
- Running the Dojo-based sample for iOS

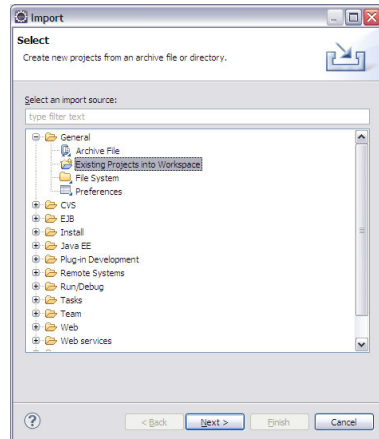
Before you begin

- See the following modules for how to build and deploy the Showcase:
 - Module 2 Setting Up Your Development Environment
 - Module 2.1 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);
}
```

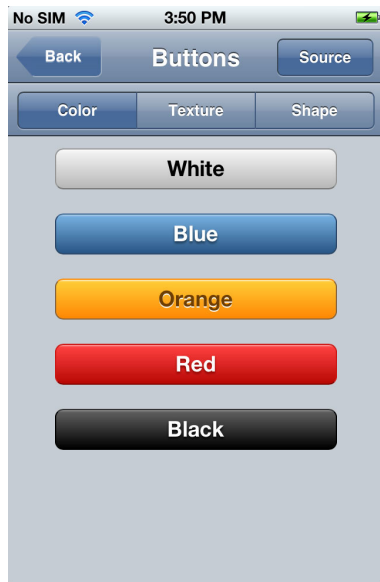
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Explore the demos

- Run a demo by selecting any entry in the demo menu

Explore the demos

- Buttons
 - Check that the colors, textures, and shapes are correct



Explore the demos

- Forms
 - Check that the input operations on all controls work correctly
 - Click **Reset Form** to reset fields to their default values

Alerts

Issue alerts for:

All messages

Urgent messages only

Audible alerts: OFF

Alert volume

Reset Form

No SIM 3:53 PM

Back Forms Source

Personal Data

Full name

Hide birthdate

Goals

Login

User name*

Password*

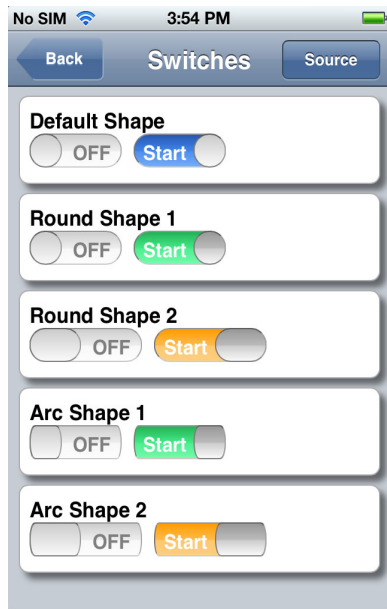
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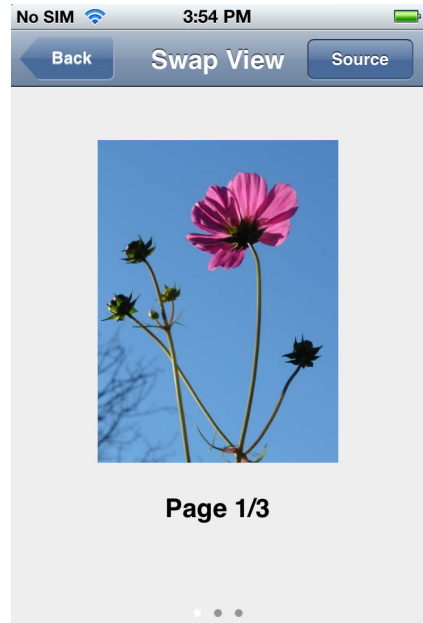
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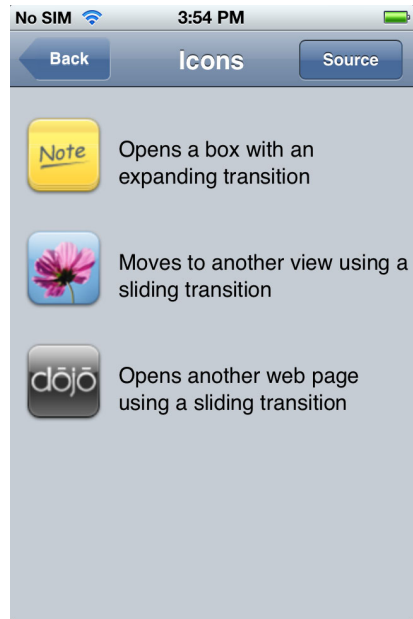
Explore the demos

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 - Swipe left and right to swap views
 - Note that if the swipe offset is not large enough, the view bounces back



Explore the demos

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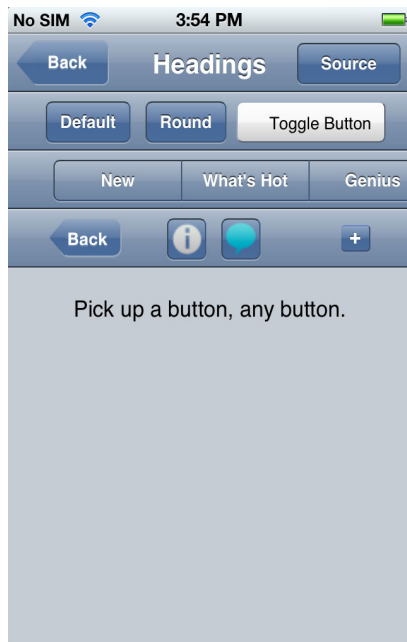
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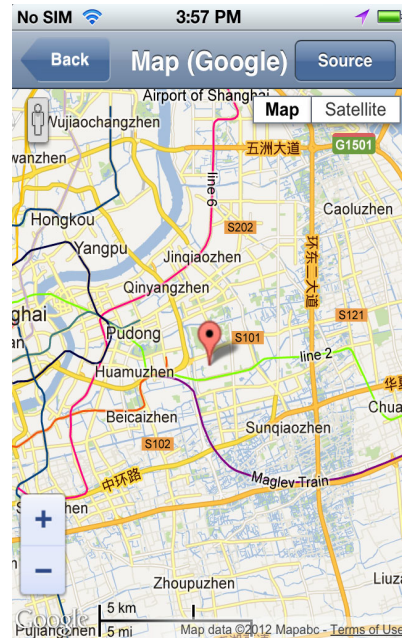
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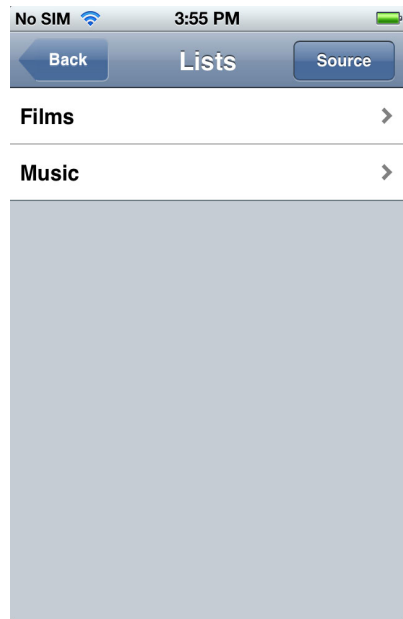
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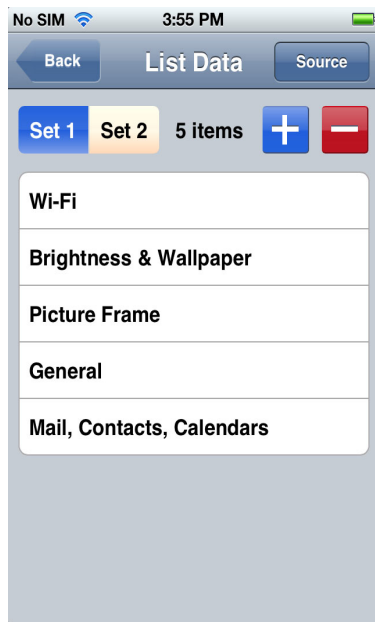
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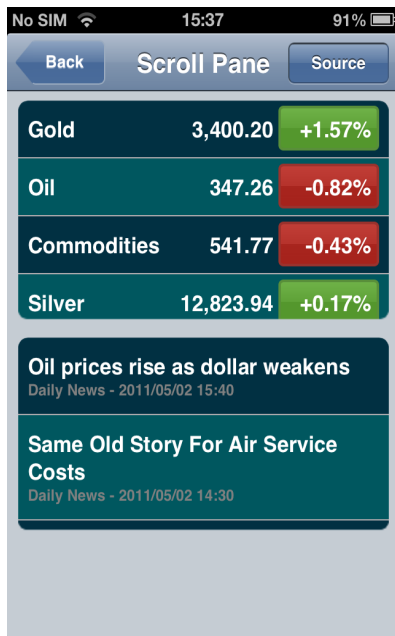
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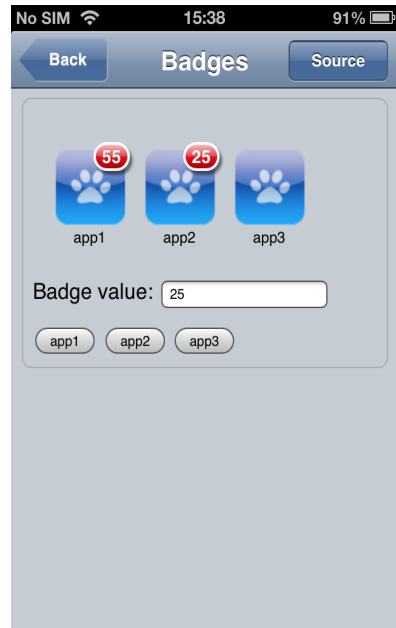
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Explore the demos

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 - Shows the different rating styles that are supported by Dojo



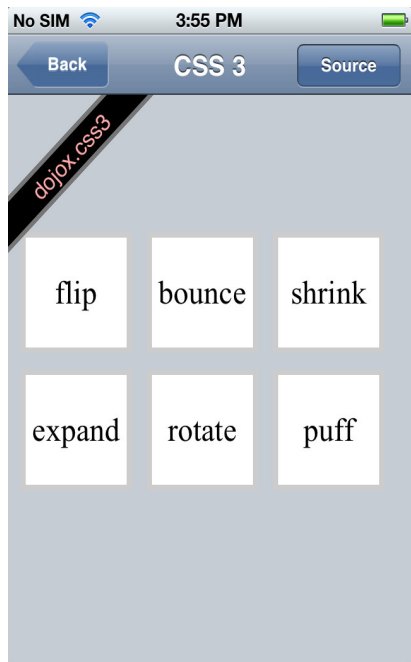
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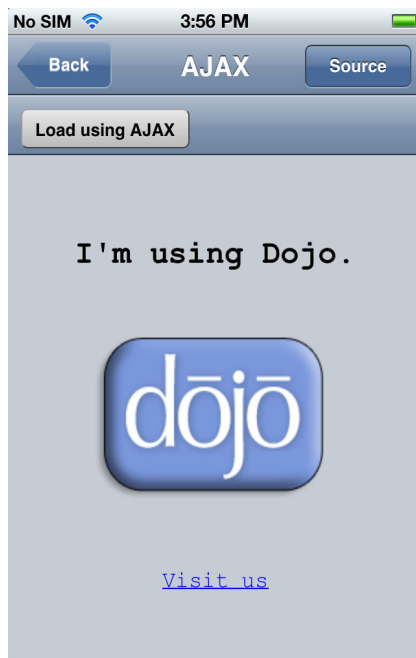
Explore the demos

- CSS 3
 - Check that each CSS 3 animation effect works correctly



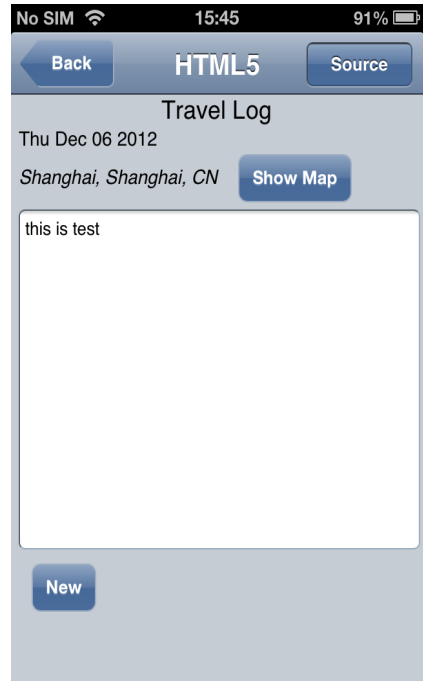
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Related information

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