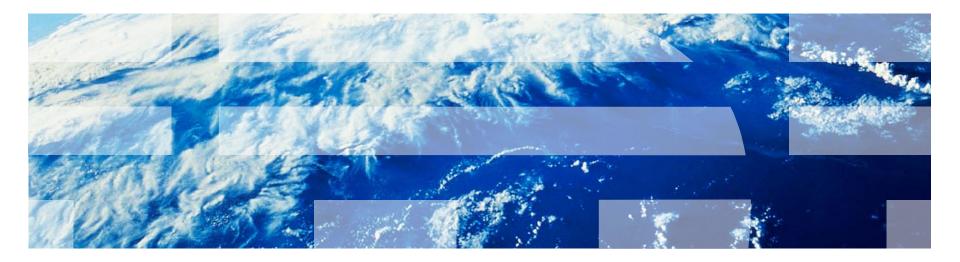


IBM Worklight V6.1.0 Getting Started

Common UI controls





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Agenda

- Common controls
 - What is a common control?
 - Busy indicator
 - Simple dialog
 - Tab bar
 - Options menu
- Sample



What is a common control?

- Some controls are common to most environments, such as modal pop-up windows, loading screens, and tab bars.
- With IBM Worklight®, you can use a JavaScript[™] API to invoke these controls regardless of the environment. This API automatically renders these controls in a native way for each mobile platform.



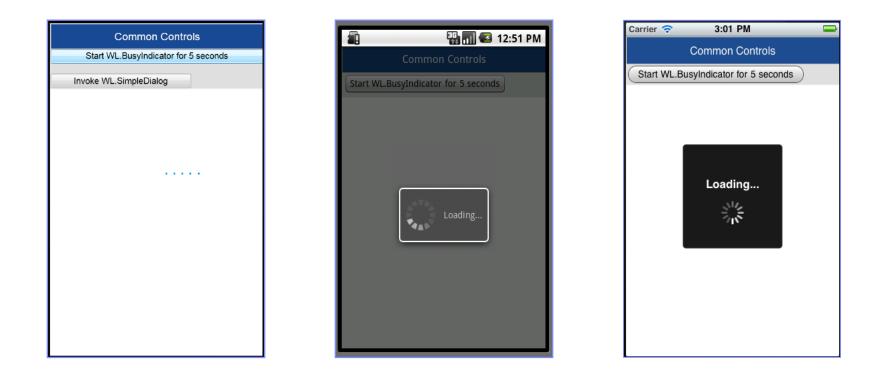
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WL.BusyIndicator

- WL.BusyIndicator implements a common API to display a modal activity indicator.
- It uses native implementation on the following platforms: Android, iOS, and Windows Phone 8 and BlackBerry 10.





WL.BusyIndicator – continued

It must be initialized before use.



- The parent element ID for WL.BusyIndicator is ignored in iOS, Android, Windows Phone and BlackBerry environments.
- Available options are:
 - text set the modal text.
 - color set the text color.
 - *fullScreen* should modal message be displayed full screen (iOS only).
 - For additional options, see the *IBM Worklight documentation*.



WL.BusyIndicator - continued

- WL.BusyIndicator provides the following API:
 - Initialization

```
this.myBusyIndicator = new WL.BusyIndicator('content', {text : "Loading..."});
```

- void myBusyIndicator.show() displays busy indicator
- void myBusyIndicator.hide() hides busy indicator
- boolean myBusyIndicator.isVisible() returns whether the busy indicator is currently visible



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I am button 2

WL.SimpleDialog

- The WL.SimpleDialog implements a common API for showing a modal dialog window with buttons
- Uses native implementation on the following platforms: Android, iOS, and Windows Phone 8 and BlackBerry 10.

Common Controls		🏭 📶 🕑 1:28 Pl	м	Carrier 🗢	3:43 PM
Start WL.BusyIndicator for 5 seconds		Common Controls			Common Controls
Invoke WL.SimpleDialog	Start WL.Busy	yIndicator for 5 seconds			yIndicator for 5 second
	Invoke WL.Sir	mpleDialog		Invoke WL.Si	mpleDialog
CommonControls					
This is simple dialog text I am button 1 I am button 2		ommonControls simple dialog text utton 1 I am button 2		This	ommonControls is simple dialog tex tton 1 I am but



WL.SimpleDialog – continued

The invocation syntax is:

```
WL.SimpleDialog.show(title, text, buttons);
```

- Parameters are title, text, and buttons as an array of button objects.
- The dialog is closed when any of the buttons is pressed.



WL.SimpleDialog – continue

- Each button object has two properties:
 - text the text that displayed on the button
 - handler the function to invoke if the button is pressed

```
var dialogTitle = "CommonControls";
var dialogText = "This is simple dialog text";
WL.SimpleDialog.show(dialogTitle, dialogText, [{
    text: 'I am button 1',
    handler: function() { alert('button 1 pressed'); }
},
{
    text: 'I am button 2',
    handler: function() { alert('button 2 pressed'); }
}
]);
```



WL.SimpleDialog - continued

The following limitations exist:

- When you use WL.SimpleDialog in Windows Phone 8, you can use at most four buttons in each instance of WL.SimpleDialog.
- When you use WL.SimpleDialog in Android, you can use at most three buttons in each instance of WL.SimpleDialog.



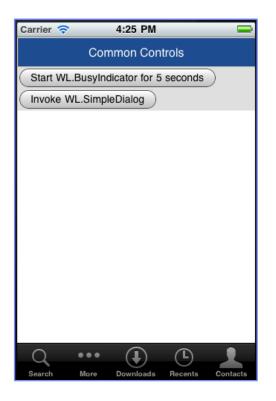
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WL.TabBar

 The mobile environments Android, iOS, Windows Phone 8 and Windows 8 support tabbed application navigation with a tab bar component.



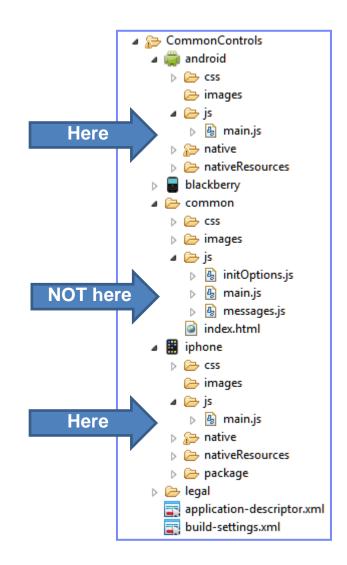




- The iOS implementation uses a native component, but Android uses an HTML-generated tab bar.
- The syntax is similar, though with some minor differences.
- Note that WL.TabBar must be initialized before it can be used.

```
WL.TabBar.init();
```

 Initialize WL. TabBar in the designated JavaScript file.





Use the following syntax to add a tab bar item:

WL.TabBar.addItem(itemID, callback, title, options);

- itemID Internal reference for this tab
- callback JavaScript function to run when a tab item is pressed
- title The text to display on the tab bar item
- options Varies between iOS and Android, see next slide



iOS options

- badge string to display on the badge of the item
- image file name of an image to use or native iOS button identifier:
 - tabButton:More
 - tabButton:Favorites
 - tabButton:Featured
 - tabButton:TopRated
 - tabButton:Recents
 - tabButton:Contacts
 - tabButton:History
 - tabButton:Bookmarks
 - tabButton:Search
 - tabButton:Downloads
 - tabButton:MostRecent
 - tabButton:MostViewed

Android options

- image file name of an image to use for an unselected state
- imageSelected file name of an image to use for a selected state



• iOS WL.TabBar.addItem example:



- When specifying an image file, there are two paths that can be used:
 - Using an internal image provided by the OS
 - Specifying a path to the folder in which the image resides



- Android WL.TabBar.addItem example:
- When specifying an image file, you need to specify the path to the folder in which the image resides.
- For more information, read about WL.TabBar in the IBM Worklight user documentation.



WL.TabBar

- WL.TabBar API
 - WL.TabBar.init()
 - WL.TabBar.addItem (returns WL.TabBarltem)
 - WL.TabBar.removeAllItems (iOS only)
 - WL.TabBar.setParentDivId (Android only)
 - WL.TabBar.setVisible(true/false)
 - WL.TabBar.setSelectedItem(itemID)
 - WL.TabBar.setEnabled (true/false)
 - WL.TabBarItem.setEnabled(true/false)
 - WL.TabBarItem.updateBadge(string) (iOS only)

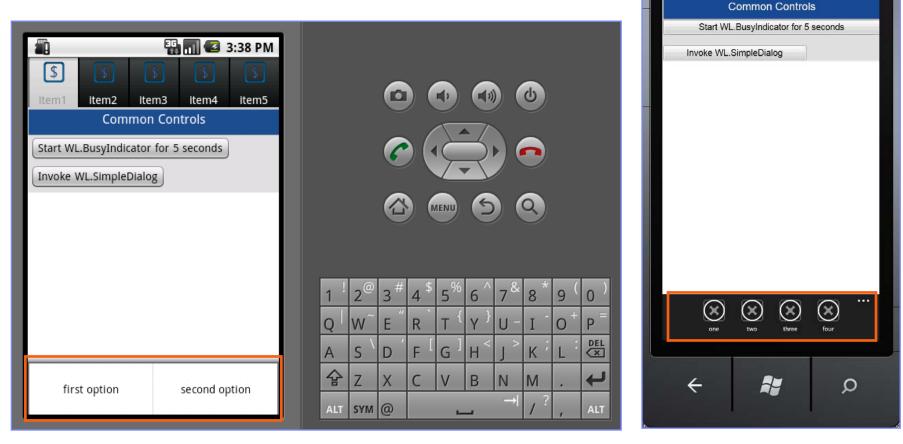


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- Supported environments: Android, Windows Phone 8, Windows 8.
- Can display a menu of options



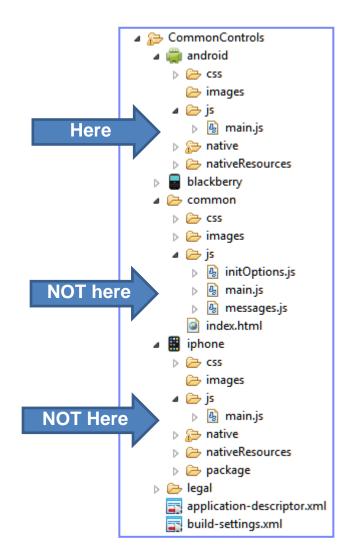


WL.OptionsMenu – continued

 WL.OptionsMenu must be initialized before use

WL.OptionsMenu.init();

- Initialize WL.OptionsMenu in the designated JavaScript file
- The syntax is similar to that of
 WL.TabBar with some minor changes





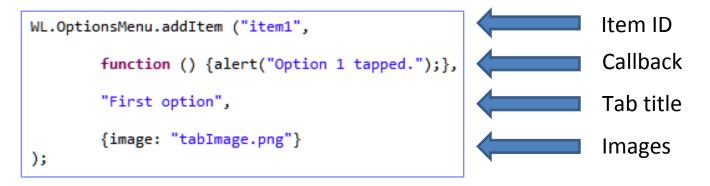
Use the following syntax to add an option of a menu:

WL.OptionsMenu.addItem(itemID, callback, title, options);

- itemID Internal reference for this menu option
- callback JavaScript function to run when the menu option is pressed
- title The text of the menu item
- options An options object with the following properties:
 - image A path to a designated image, relative to resource root directory.
 - enabled Boolean stating if the item is enabled or disabled



WL.OptionsMenu.addItem example:



- Paths to image files should not be given; instead, the files should be placed at the following locations:
 - Android: nativeResouces\drawable-*
 - Windows 8: Resources\applicationBar
 - Windows Phone 8: nativeResources\applicationBar
- For more information, read about WL.OptionsMenu in the IBM Worklight user documentation.



- WL.OptionsMenu API
 - WL.OptionsMenu.init()
 - WL.OptionsMenu.addItem (return reference to a new options item)
 - WL.OptionsMenu.getItem(itemID)
 - WL.OptionsMenu.getItem(itemID).setEnabled (true /
 false)
 - WL.OptionsMenu.setVisible (true / false)
 - WL.OptionsMenu.setEnabled (true / false)
 - WL.OptionsMenu.removeItem (itemID)
 - WL.OptionsMenu.removeItems ()



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Sample

 The sample for this training module can be found in the Getting Started page of the IBM Worklight documentation website at <u>http://www.ibm.com/mobile-docs</u>



Check yourself questions

- What is a common control?
 - A common control is a user interface element that is common to most environments
 - A common control is a way to specify how groups of elements are controlled
 - A common control is an emulation of a device's native controls by using various technologies
 - A common control is a native interface element that cannot be controlled by a web means such as JavaScript
- Which mobile environments use native implementation of a busy indicator?
 - iOS, Android, BlackBerry
 - iOS, Android, Windows Phone 8
 - Windows Phone 8, BlackBerry, iOS
 - iOS, Android, BlackBerry, Windows Phone
- Which mobile environments support TabBar control?
 - Android, BlackBerry, Windows Phone 8
 - Android, iOS, Windows Phone 8
 - iOS, Android, BlackBerry
 - iOS, Android



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