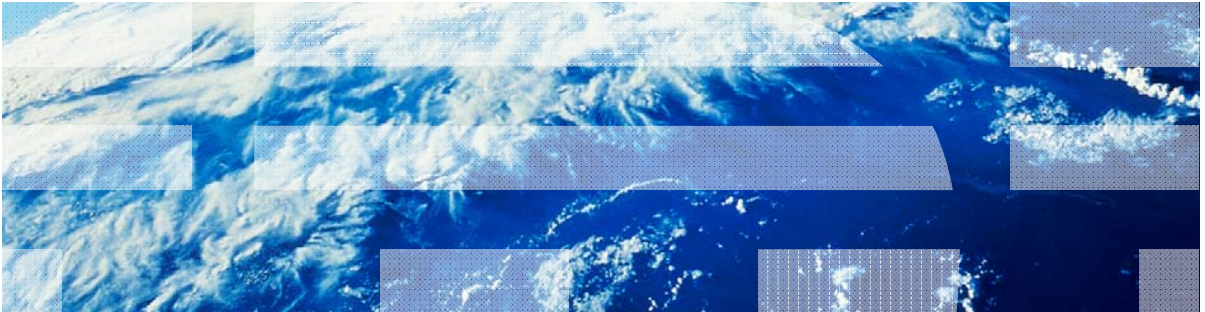


# ***IBM Worklight V6.0.0 Getting Started***

## **Common UI controls**



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- See <http://www.ibm.com/ibm/us/en/>

# Agenda

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

## ***What is a common control?***

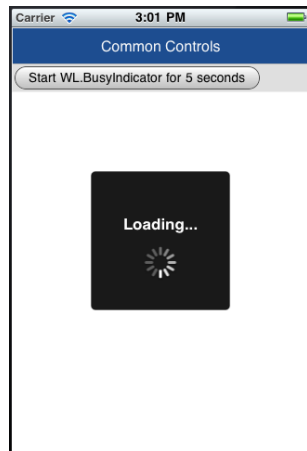
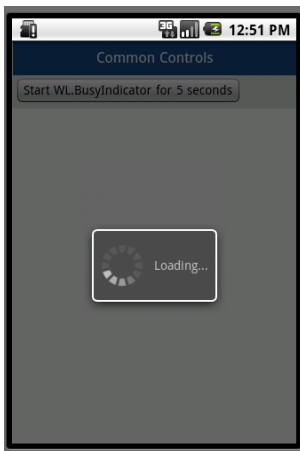
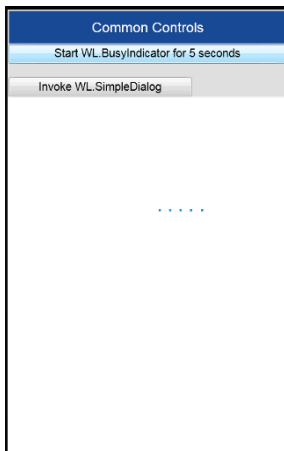
- Some controls are common to most environments, such as modal pop-up windows, loading screens, and tab bars.
- With IBM Worklight®, you can use a JavaScript™ API to invoke these controls regardless of the environment. This API automatically renders these controls in a native way for each mobile platform.

# Agenda

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

## WL.BusyIndicator

- WL.BusyIndicator implements a common API to display a modal activity indicator
- Uses native implementation on Android, iPhone, and Windows Phone platforms



## *WL.BusyIndicator*

- Must be initialized before use

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

Parent element ID (web only)



Options



- 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 user documentation.

## ***WL.BusyIndicator***

- 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 busy indicator is currently visible

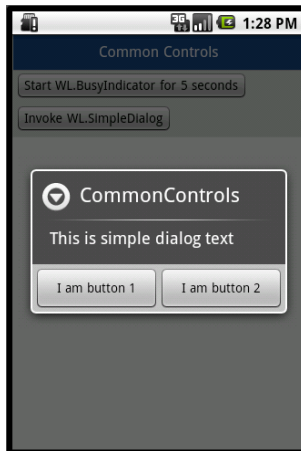
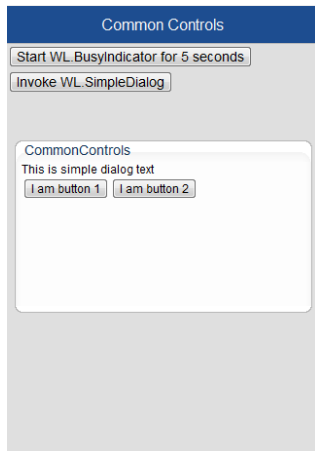


# Agenda

- Common controls
  - What is a common control
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- Sample

## WL.SimpleDialog

- The WL.SimpleDialog implements a common API for showing a modal dialog window with buttons
- Uses native implementation on mobile platforms



## ***WL.SimpleDialog***

- 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

- 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***

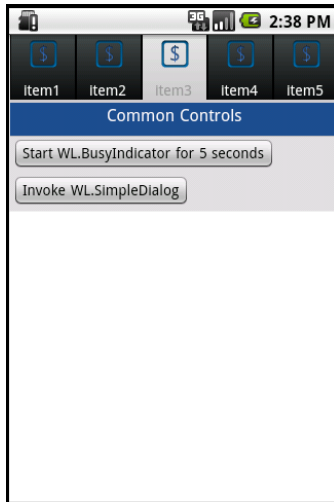
- When using **WL.SimpleDialog in Windows 8** there are two limitations:
  - You can use three buttons at maximum in each WL.SimpleDialog.
  - A WL.SimpleDialog cannot be called from another WL.SimpleDialog.
- When using **WL.SimpleDialog in Android**
  - You can use three buttons at maximum in each WL.SimpleDialog.

# Agenda

- Common controls
  - What is a common control
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## WL.TabBar

- Both Android and iOS environments support tabbed application navigation with a tab bar component.

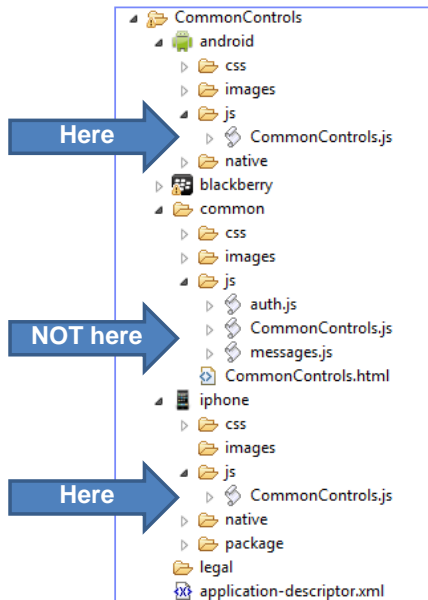


## WL.TabBar

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

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

- Initialize WL.TabBar in a designated JavaScript file





## *WL.TabBar*

- 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 platforms, see next slide

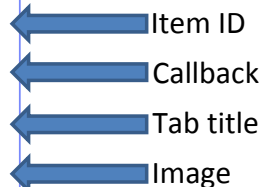
## ***WL.TabBar***

- 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

## WL.TabBar

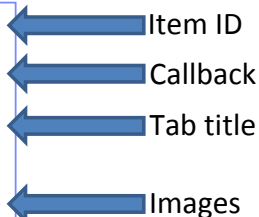
- iOS addTab invocation example:

```
WL.TabBar.addItem( "item1",  
    function(){ alert("item 1 pressed"); },  
    "item 1 title",  
    { image : "tabButton:Search" }  
);
```



- Android addTab invocation example:

```
WL.TabBar.addItem( "item1",  
    function(){ alert("item 1 pressed"); },  
    "item1 title",  
    {  
        image: "images/tabicon.png",  
        imageSelected : "images/tabicon.png"  
    }  
);
```



## ***WL.TabBar***

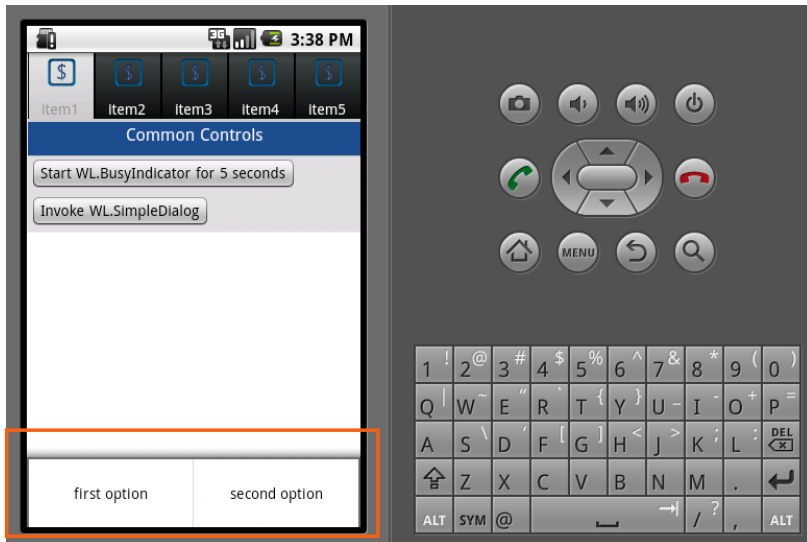
- WL.TabBar API
  - WL.TabBar.init()
  - WL.TabBar.addItem (returns WL.TabBarItem)
  - WL.TabBar.removeAllItems (iOS only)
  - WL.TabBar.setParentDivId (Android only)
  - WL.TabBar.setVisible(true/false)
  - WL.TabBar.setSelectedItem(itemId)
  - WL.TabBar.setEnabled (true/false)
  - WL.TabBarItem.setEnabled(true/false)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

# Agenda

- Common controls
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## WL.OptionsMenu

- Android and Windows Phone environments can display a menu of options

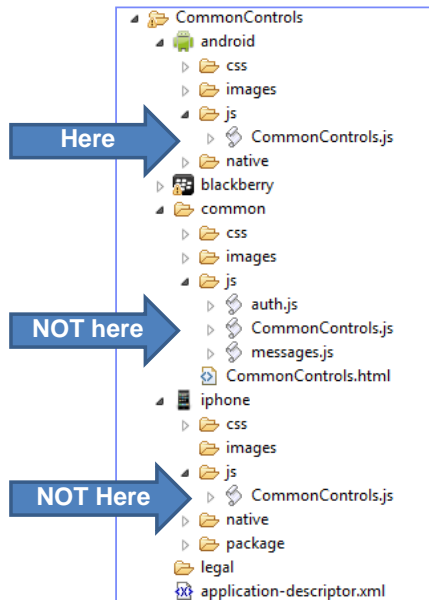


## WL.OptionsMenu

- 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 the tab bar with some minor changes



## *WL.OptionsMenu*

- 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. 48x48 px black and white .png file
  - **enabled** – Boolean stating if the item is enabled or disabled



## WL.OptionsMenu

- WL.OptionsMenu.addTab example

```
WL.OptionsMenu.addItem( "first",  
    function() {alert("option 1 selected"); },  
    "first option",  
    {  
        image: "images/tabicon.png",  
        enabled: true  
    }  
);
```

 Item ID Callback Tab title Images

## ***WL.OptionsMenu***

- 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 ()

# Agenda

- Common controls
  - What is a common control
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- Sample

## Sample

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

## 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 group of elements is controlled
  - A common control is an emulation of a device 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
  - Windows Phone, BlackBerry, iOS
  - iOS, Android, BlackBerry, Windows Phone
- Which mobile environments support TabBar control?
  - Android, BlackBerry, Windows Phone
  - Android, iOS, Windows Phone
  - iOS, Android, BlackBerry
  - iOS, Android

## Check yourself questions

- What is a common control?
  - A common control is a user interface element that is common to most environments
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- Which mobile environments support TabBar control?
  - Android, BlackBerry, Windows Phone
  - Android, iOS, Windows Phone
  - iOS, Android, BlackBerry
  - iOS, Android

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