

CS 696 Emerging Web and Mobile Technologies  
Spring Semester, 2011  
Doc 16 Titanium Appcelerator  
Mar 17, 2011

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## References

Appcelerator Development Center API Documentation, <http://developer.appcelerator.com/apidoc/mobile/latest>

Appcelerator Kitchen Sink Application, part of Appcelerator Download

# Titanium Appcelerator

<http://www.appcelerator.com/>

Develop using JavaScript

Uses native UI widgets

iPhone, iPad, Android

Use your Editor

Appcelerator tool compiles application

Need

iPhone SDK for iPhone apps

Android SDK for Android apps

# Supports

Standard UI components

Geolocation

Accelerometer

Sounds

Contacts

Camera

Music

Proximity Events

Push Notifications

Network sockets

XmlHttpRequest

Database

RSS

JSON

Bonjour

SOAP

Facebook

Twitter

Yahoo Query Language

# Kitchen Sink Demo

Following examples are from the kitchen sink application

# First Example

```
Titanium.UI.setBackgroundColor('#000');

var mainWindow = Titanium.UI.createWindow({
  backgroundColor:'#fff'
});

var label1 = Titanium.UI.createLabel({
  color:'#999',
  text:'I am a Window',
  font:{fontSize:20,fontFamily:'Helvetica Neue'},
  textAlign:'center',
  width:'auto'
});

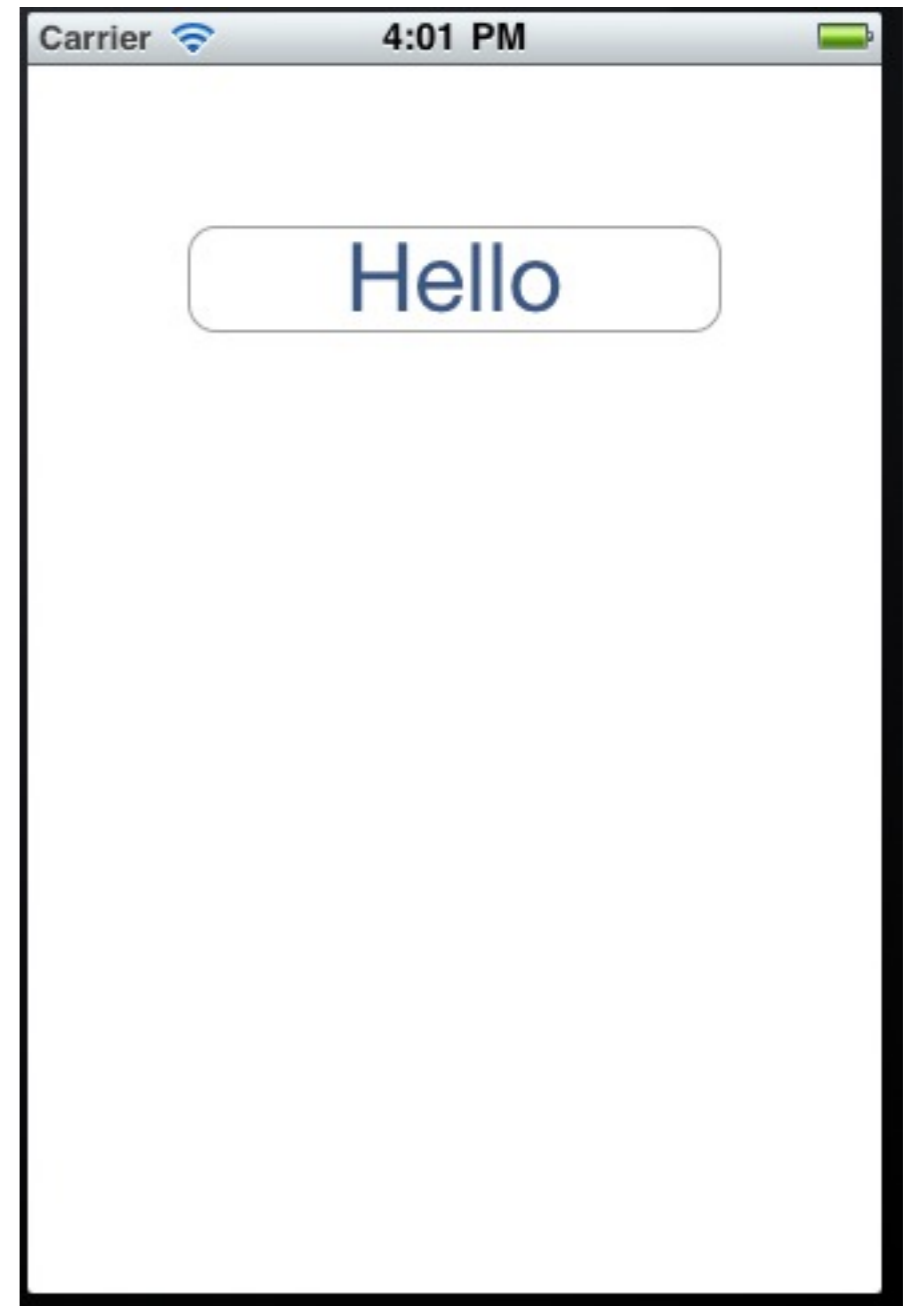
mainWindow.add(label1);
mainWindow.open();
```



# Button

```
var mainWindow = Titanium.UI.createWindow({
  backgroundColor:'#fff'
});

var hello = Titanium.UI.createButton({
  title: 'Hello',
  font:{fontSize:36,fontFamily:'Helvetica Neue'},
  width:200,
  height:40,
  top:60
});
mainWindow.add(hello);
mainWindow.open();
```

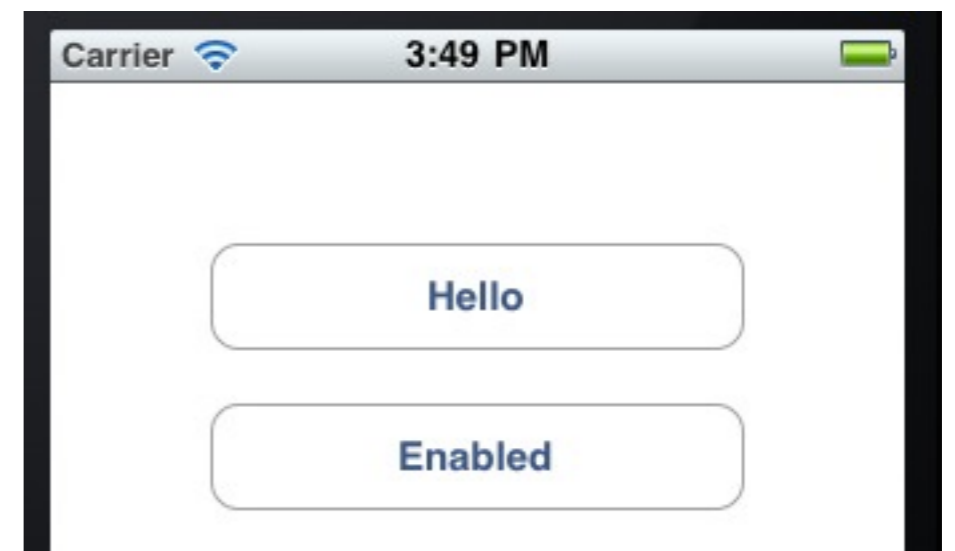


# Button With handler

```
var mainWindow = Titanium.UI.createWindow({  
  backgroundColor:'#fff'});
```

```
var hello = Titanium.UI.createButton({  
  title: 'Hello',  
  width:200,  
  height:40,  
  top:60  
});
```

```
var toggle = Titanium.UI.createButton({  
  title: 'Enabled',  
  width:200,  
  height:40,  
  top:120,  
  visible: true  
});
```



```
hello.addEventListener('click', function()  
{  
  if (toggle.visible)  
    toggle.hide();  
  else  
    toggle.show();  
});  
  
mainWindow.add(hello);  
mainWindow.add(toggle);  
mainWindow.open();
```



# Slider

```
var mainWindow = Titanium.UI.createWindow({ backgroundColor:'#fff' });
```

```
var basicSliderLabel = Titanium.UI.createLabel({  
  text:'Basic Slider - value = 0' ,textAlign:'center',  
  top:10, width:300, height:'auto'  
});
```

```
var basicSlider = Titanium.UI.createSlider({  
  min:0, max:10, value:5,  
  width:100, height:'auto', top:35  
});
```

```
basicSlider.addEventListener('change',function(e)  
{
```

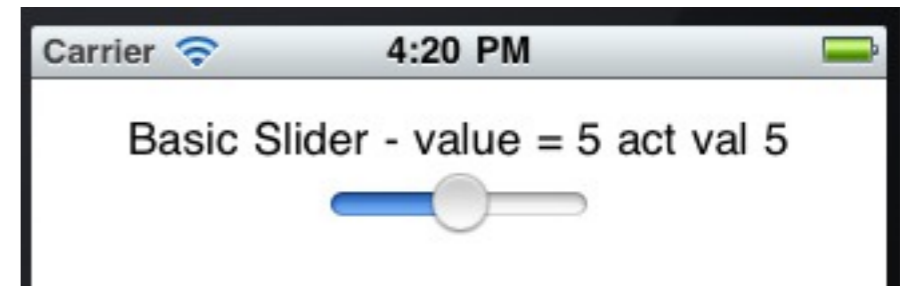
```
  basicSliderLabel.text = 'Basic Slider - value = ' + Math.round(e.value) + ' act val ' +  
    Math.round(basicSlider.value);
```

```
});
```

```
mainWindow.add(basicSliderLabel);
```

```
mainWindow.add(basicSlider);
```

```
mainWindow.open();
```



# Tab Bar



# Tab Bar Code

```
var tabGroup = Titanium.UI.createTabGroup();

var window1 = Titanium.UI.createWindow({
  backgroundColor:'#fff'
});
var tab1 = Titanium.UI.createTab({
  icon:'KS_nav_views.png',
  title:'Tab 1',
  window:window1
});

var label1 = Titanium.UI.createLabel({
  text:'I am Window 1',
  font:{fontSize:20,fontFamily:'Helvetica
Neue'},
  textAlign:'center',
  width:'auto'
});

window1.add(label1);
```

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```
var window2 = Titanium.UI.createWindow({
  backgroundColor:'#aaa'
});
var tab2 = Titanium.UI.createTab({
  icon:'KS_nav_ui.png',
  title:'Tab 2',
  window:window2
});

var label2 = Titanium.UI.createLabel({
  text:'I am Window 2',
  font:{fontSize:20,fontFamily:'Helvetica Ne
ue'},
  textAlign:'center',
  width:'auto'
});

window2.add(label2);
```

# Tab Bar Code

```
tabGroup.addTab(tab1);  
tabGroup.addTab(tab2);
```

```
tabGroup.open();
```

# Alerts

```
var mainWindow = Titanium.UI.createWindow({
  backgroundColor:'#fff'
});
```

```
var showAlert = Titanium.UI.createButton({
  title:'Show Alert',
  height:40,
  width:200,
  top:10
});
```

```
showAlert.addEventListener('click', function() {
var a = Titanium.UI.createAlertDialog({title:'Alert Test',});
  a.message = 'Two Buttons';
  a.buttonNames = ['OK','Cancel'];
  a.cancel = 1;
  a.show();
  a.addEventListener('click',alertButtonSelected);
});
```



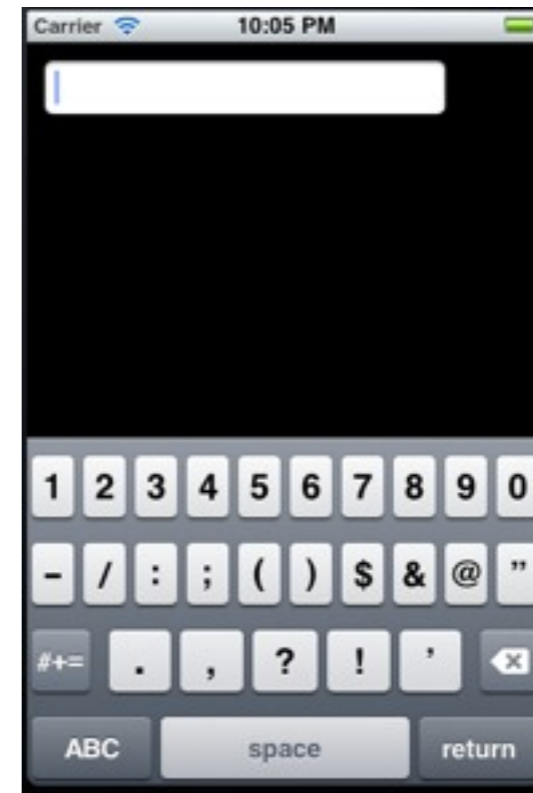
```
function alertButtonSelected(event) {
  alert(event.index);
}
mainWindow.add(showAlert);
//mainWindow.add(toggle);
mainWindow.open();
```

# TextFields

```
var win = Titanium.UI.createWindow();
var textField = Titanium.UI.createTextField({
    color:'#336699',
    height:35,
    top:10,
    left:10,
    width:250,
    keyboardType:Titanium.UI.KEYBOARD_NUMBERS_PUNCTUATION,
    returnKeyType:Titanium.UI.RETURNKEY_DEFAULT,
    borderStyle:Titanium.UI.INPUT_BORDERSTYLE_ROUNDED
});

textField.addEventListener('return',function(e) {
    alert('return received, val = ' + e.value);
    textField.blur();
});

win.add(textField);
win.open();
```



# Scrolling & Orientation

```
var win = Titanium.UI.createWindow();
win.backgroundColor = '#fff';
win.orientationModes = [
    Titanium.UI.PORTRAIT,
    Titanium.UI.LANDSCAPE_LEFT
];

var scrolly = Titanium.UI.createScrollView({
    contentHeight:'auto',
    top: 0,
    showVerticalScrollIndicator:true}
);
win.add(scrolly);
```

```
var a = Titanium.UI.createButton({
    top:350,
    title:'A'
});
scrolly.add(a);

win.add(scrolly);
win.open();
```

# Database Access

```
Titanium.UI.createWindow().open();
var db = Titanium.Database.open('mydb');

db.execute('CREATE TABLE IF NOT EXISTS Expenses(id INTEGER PRIMARY KEY, Name VARCHAR(30),
Amount DECIMAL(5,2), Category INTEGER NOT NULL, Date DATE)');

db.execute('INSERT INTO Expenses (Name, Amount, Category, Date) VALUES(?,?,?,?)','test', 1234 ,1,
'2011-12-12');

Titanium.API.info('JUST INSERTED, rowsAffected = ' + db.rowsAffected);

var rows = db.execute('SELECT * FROM Expenses');
Titanium.API.info('ROW COUNT = ' + rows.getRowCount());

while (rows.isValidRow())
{
    Titanium.API.info('ID: ' + rows.field(0) + ' NAME: ' + rows.fieldByName('name') + ' COLUMN NAME ' +
rows.fieldName(0));
    rows.next();
}
rows.close();
db.close();
```