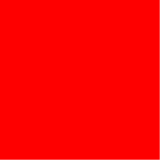
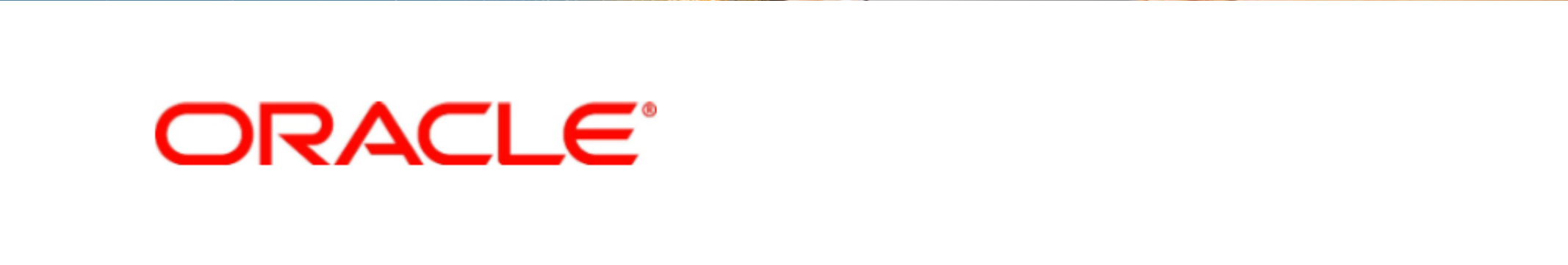


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Writing Stunning Cross-Platform Applications Using LWUIT

Ariel Levin & Chen Fishbein



JavaOne and Oracle Develop

Latin America 2010

December 7–9, 2010



JavaOne and Oracle Develop

Beijing 2010

December 13–16, 2010

Agenda

- What's new in LWUIT 1.4?
- HTML component
- HTML Demo
- LWUIT Answers Demo
- Time Line Animation
- Virtual Keyboard
- Cross platforms
- Demo on Devices
- Power of the Theme Creator
- Q & A
- More Information



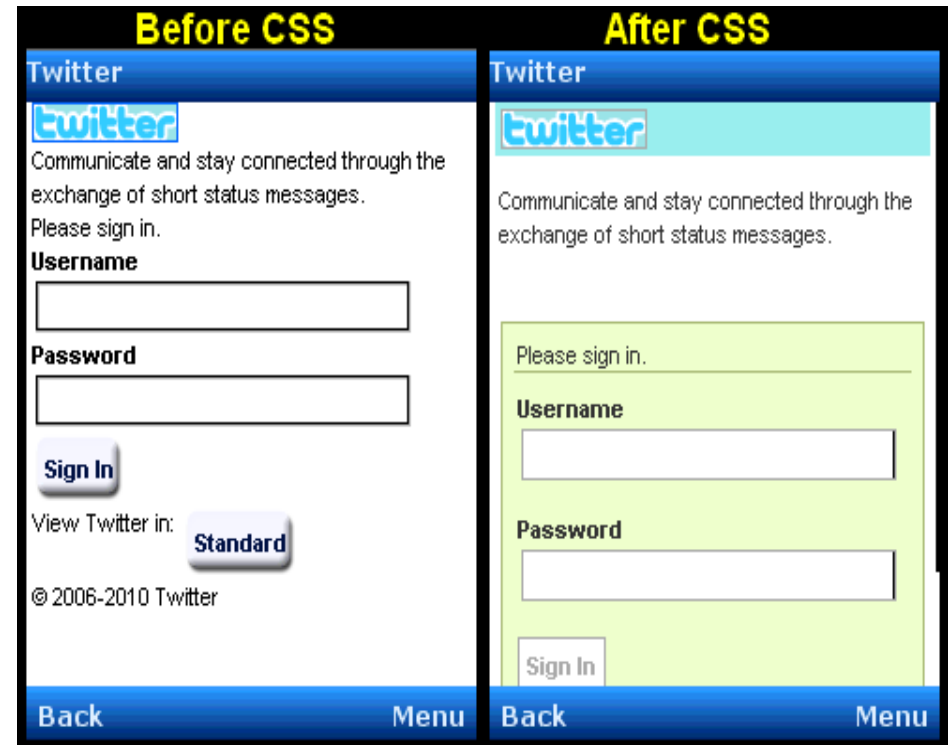
What's new in LWUIT 1.4?

New Features

- Released in August 2010
- Marks The Stability & Maturity Of LWUIT
- Key features
 - HTML Component
 - Multi-line text field
 - Easier Blackberry Development
 - Improved Animations
 - Deeper Virtual Keyboard Customizability

HTML Component

- Rich Text Component
- XHTML MP 1.0
- CSS support

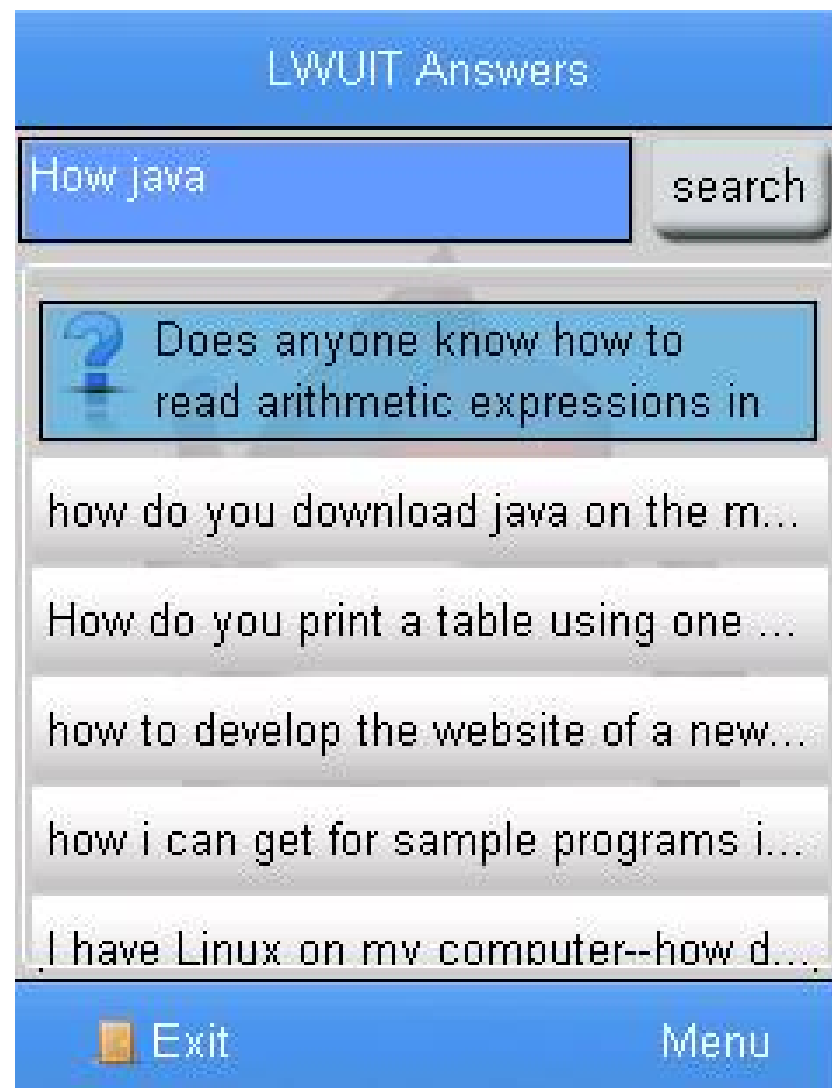


```
HTMLComponent htmlC = new HTMLComponent(handler);  
htmlC.setBodyText("Testing HTML 123 <a href=\"test\">Test  
link</a><hr>");
```


HTML Component Demo

Before CSS	After CSS
<div>Twitter</div> <div>twitter</div> <p>Communicate and stay connected through the exchange of short status messages. Please sign in.</p> <p>Username</p> <input type="text"/> <p>Password</p> <input type="password"/> <p>Sign In</p> <p>View Twitter in: Standard</p> <p>© 2006-2010 Twitter</p> <div>BackMenu</div>	<div>Twitter</div> <div>twitter</div> <p>Communicate and stay connected through the exchange of short status messages.</p> <p>Please sign in.</p> <p>Username</p> <input type="text"/> <p>Password</p> <input type="password"/> <p>Sign In</p> <div>BackMenu</div>

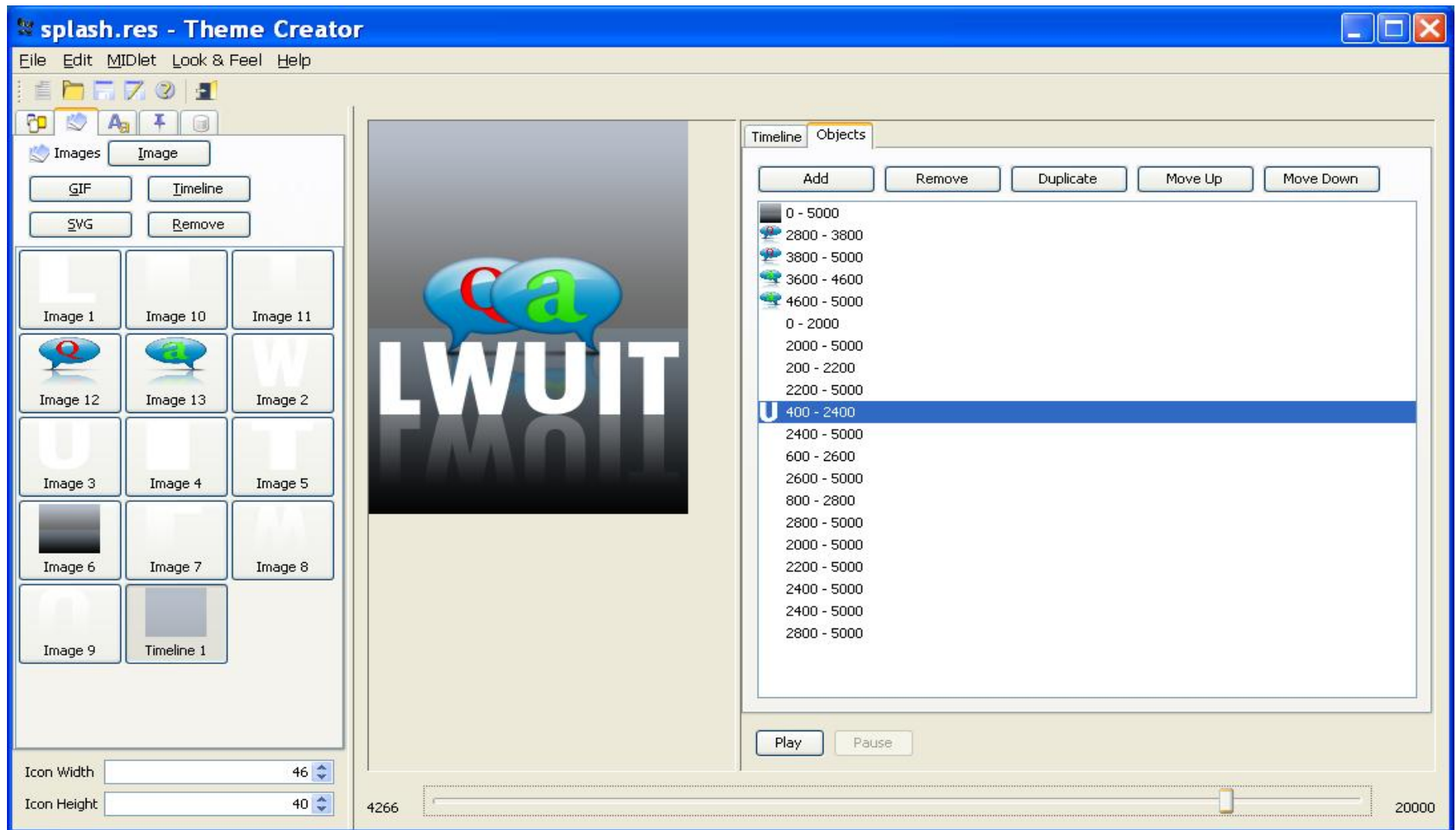
LWUIT Answers Demo



Timeline Animation

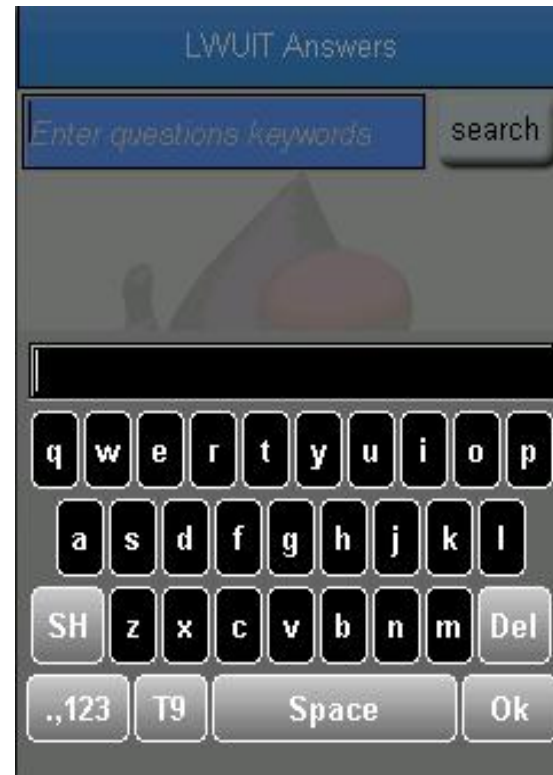
- Simple animations
 - moves images
 - transform them
 - Frames animations
- Low end devices
- Declared with the Resource Editor

Timeline Animation



Virtual Keyboard

- bound automatically to every TextField
 - VKBImplementationFactory.init();
- Custom VirtualKeyboard



Virtual Keyboard

```
String[][] SEARCH = new String[][]{
    {"Which", "Whom", "Whose", "Why", "How"},
    {"What", "Where", "Who", "When", "$Delete$"},
    {"$Mode$", "$Space$", "$OK$"}
};

search = new TextField();

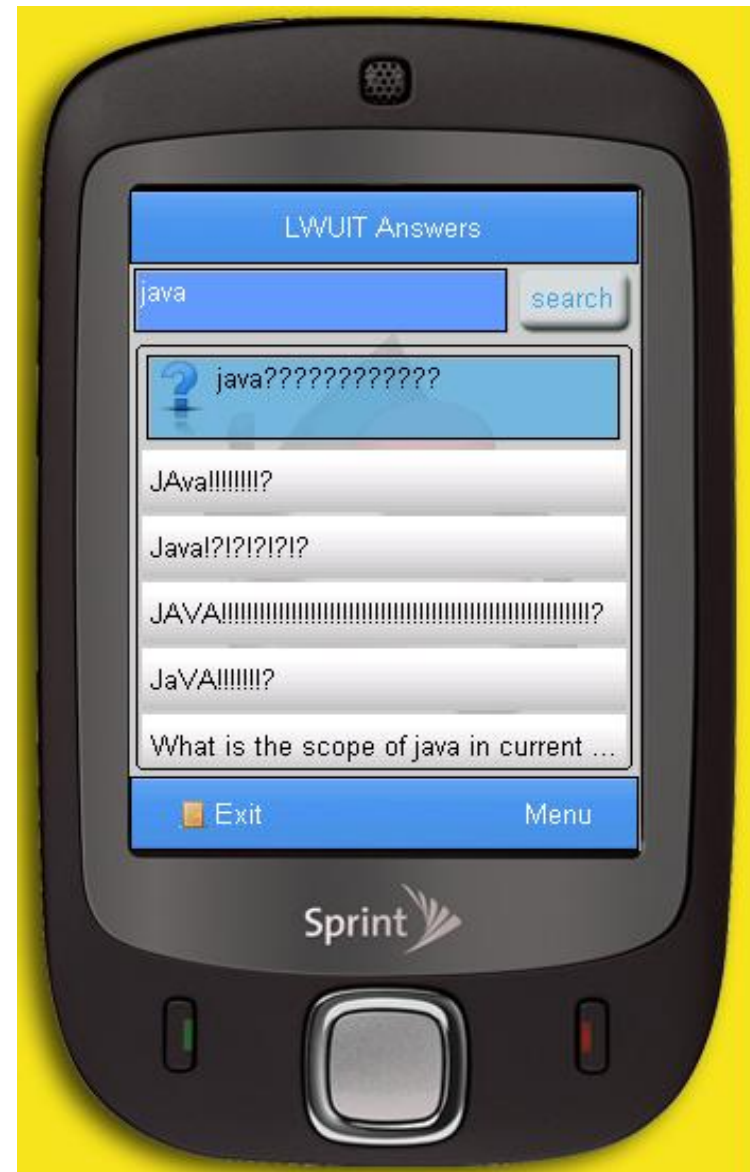
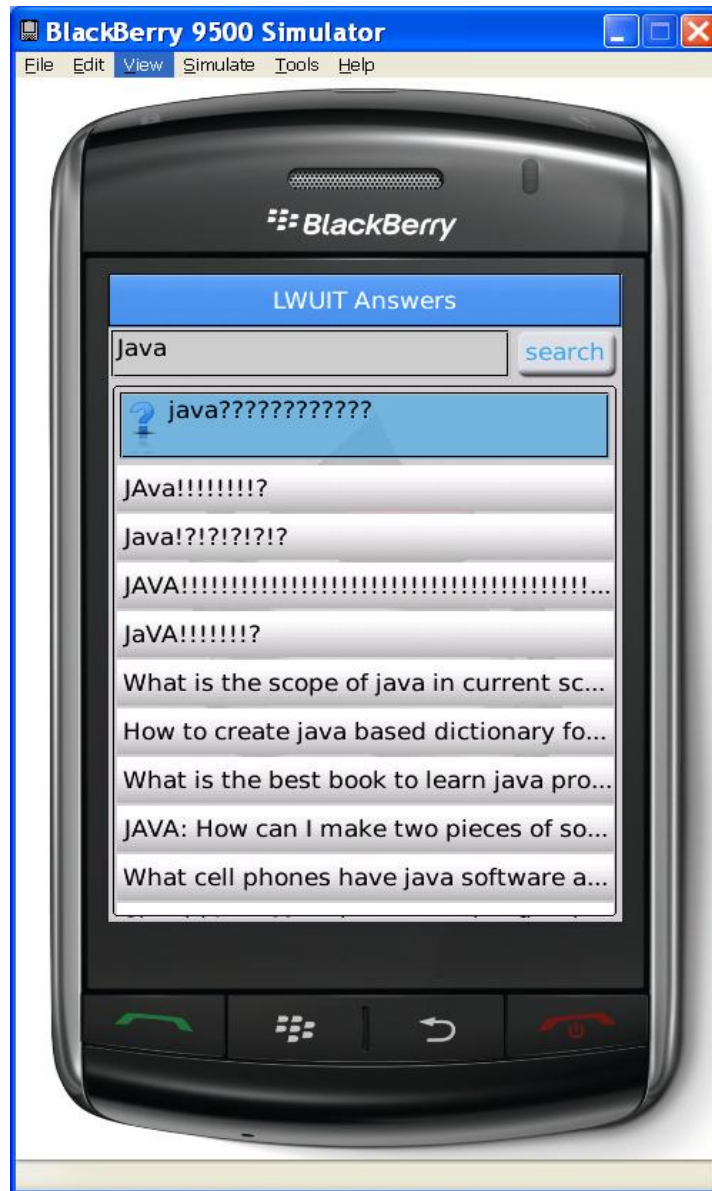
VirtualKeyboard vkb = new VirtualKeyboard();
vkb.addInputMode("Quest", SEARCH);
vkb.setInputModeOrder(new String[]{"Quest", VirtualKeyboard.
QWERTY_MODE, VirtualKeyboard.NUMBERS_SYMBOLS_MODE});

VirtualKeyboard.bindVirtualKeyboard((TextField)search, vkb);
```

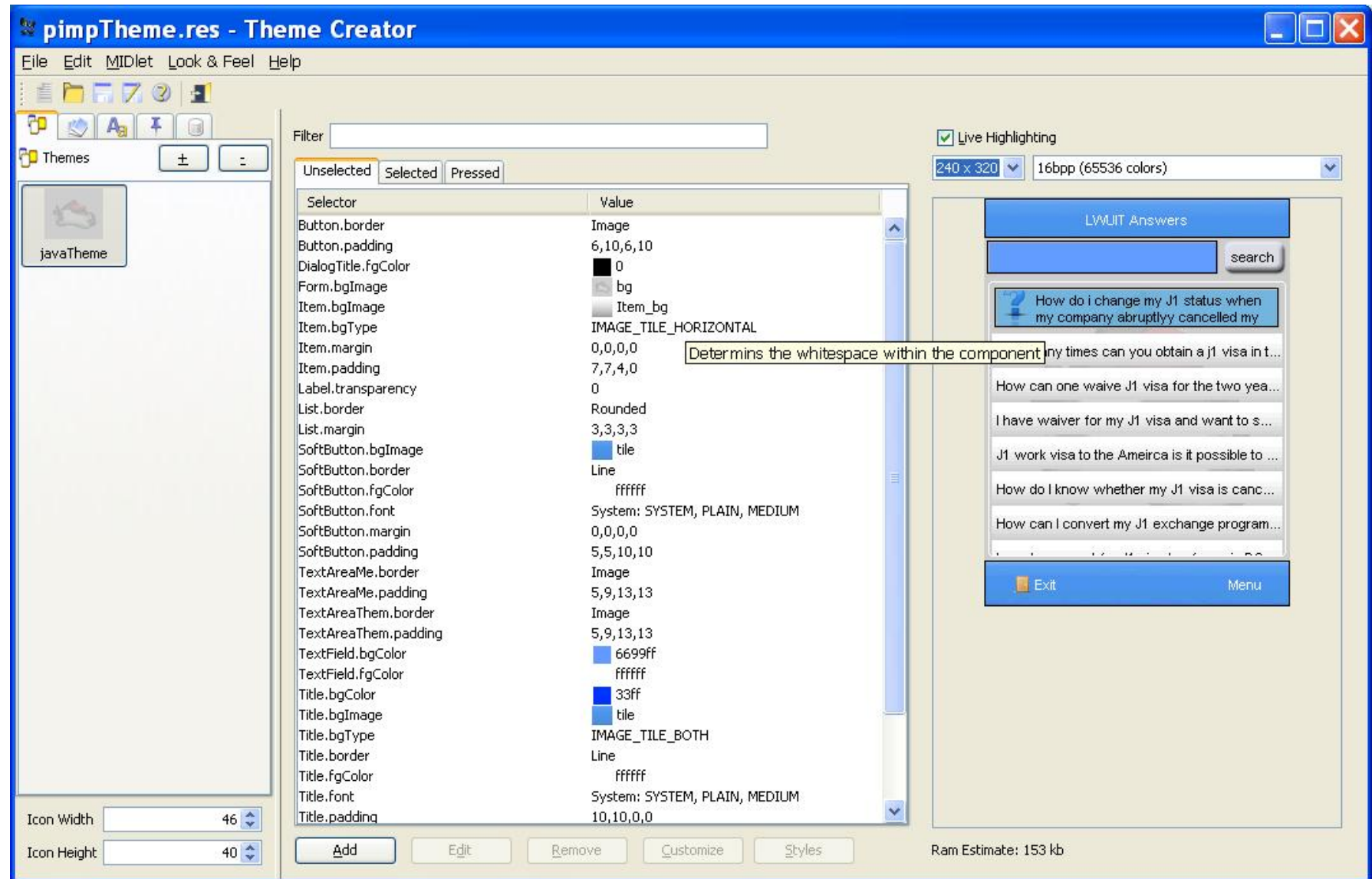
Cross Platform

- One source code, many platforms
- Not the lowest common denominator
- A platform needs to mean something visually or to have underlying capabilities
 - Touch Devices
 - Normal/Qwerty keypad
 - Devices with no softkeys
 - BlackBerry
 - AWT
 - ...

Demo



Power of the Theme Creator



Q & A

For more information

- Download LWUIT 1.4 -
 - <http://www.oracle.com/technetwork/java/javame/tech/lwuit-141954.html>
- LWUIT Blog -
 - <http://lwuit.blogspot.com/>
- LWUIT Forum -
 - <http://forums.java.net/jive/forum.jspa?forumID=139>
- Open Source location -
 - <https://lwuit.dev.java.net/>

Related sessions

- Beyond Smartphones: Rich Applications and Services for the Mobile Masses
 - Monday 1:30AM -12:30PM
- Developing Java TV Applications with LWUIT for DTVi-J (Ginga-J) Brazil
 - Monday 04:00PM -05:00PM
- LWUIT Cheat Sheet: How to Optimize Your LWUIT-Based Java ME Applications
 - Tuesday 08:00PM -08:45PM
- Introducing Java TV Widget Development
 - Wednesday 11:30AM -12:30PM

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