

Advanced Programming Language (630501) Fall 2011/2012 – Lecture Notes # 5

Hyperlinking

Outline of the Lecture

- Characterizing the Element with Attributes
- ➢ Linking
 - The <a> Element
 - The <anchor> Element

Characterizing the Element with Attributes

• Further information about the element's characteristics is provided by adding attributes to the element, as necessary. Thus, if you want to right-align a paragraph, the attribute would read as follows:

Right-aligned text

• All attributes must be enclosed in quotation marks (either single or double)

Linking

Hyperlinking

- o Internal Linking
- External Linking

The <a> Element

- The **<a>** element is an abbreviated form of the **<anchor>** element. Text within the **<a>** element forms a hyperlink to another card or deck.
- It is preferable to use <a> instead of <anchor> wherever possible.
- An example of the syntax for the <a> element:

```
<a href="deck2.wml">A Link to Deck 2</a>
```

• The **href** attribute is required

Example 5.1

```
<?xml version = "1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN"
"http://www.wapforum.org/DTD/wml12.dtd">
<!-- Using local icons -->
<wml>
<card id = "index" title = "Icons">
Local Icons<br />
<!-- link to second card -->
```

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```
<a href = "#card2">
<img src = "" alt = "Link" localsrc = "link" />
</a>Link<br />
<!-- link to third card -->
<a href = "#card3">
<img src = "" alt = "Wrench" localsrc = "wrench" />
</a>Wrench<br />
<!--link to external card -->
<a href = "52.wml#card4">
<img src = "" alt = "Football" localsrc = "football" />
</a>Football<br />
<a href = "52.wml#card5">
<img src = "" alt = "Boat" localsrc = "boat" />
</a>Boat <math>
</card>
<!-- card named card2 -->
<card id = "card2" title = "Icons">
You choose the link!</card>
<!-- card named card3 -->
<card id = "card3" title = "Wrench Link">
You choose the wrench!</card>
</wml>
```

Example 5.2

```
<?xml version = "1.0"?>
<!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN"
"http://www.wapforum.org/DTD/wml12.dtd">
<!-- Linking to an external card -->
<wml>
<card id = "card4" title = "Football Link">
You chose the football!</card>
<card id = "card5" title = "Boat Link">
You chose the boat!</card>
```

The <anchor> Element

• The **<anchor>** element anchors a task to a string of formatted text, often called a link. You can specify a link within any formatted **text** or **image**. When a user selects the link and presses ACCEPT, the device executes the task.

```
Syntax
```

<anchor title="label">task text</anchor>

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| | The task represents the action to perform when the user activates the link The text is the text the device will display to represent the link: | |
|------|--|------|
| task | You must anchor <i>one</i> of the following task elements to a link: | |
| | • <go></go> | |
| | • <prev></prev> | |
| | <refresh></refresh> | |
| | • <noop></noop> | |
| text | Devices typically set this text off from surrounding text, for instance, | |
| | by enclosing it in square brackets or underlining it if the device can | |
| | display bitmap images. | |
| | • The following is an example of the syntax for the <anchor> element:</anchor> | |
| | (an shows) light to Dest 2 (and head use the shows) (an shows | |
| | <pre><anchor>A link to Deck 2 <go href="deck2.wml"></go></anchor></pre> | |
| | | |
| | Example 5.3 | |
| | <pre>Example 5.3 <?xml version = "1.0"?></pre> | |
| | <pre><?xml version = "1.0"?> <!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN"</pre> </pre> | |
| | <pre><?xml version = "1.0"?> <!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN" "http://www.wapforum.org/DTD/wml12.dtd"> </pre> | |
| | <pre><?xml version = "1.0"?> <!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN" "http://www.wapforum.org/DTD/wml12.dtd"> <wml></wml></pre> | |
| | <pre><?xml version = "1.0"?> <!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN" "http://www.wapforum.org/DTD/wml12.dtd"> <wml> <card></card></wml></pre> | |
| | <pre><?xml version = "1.0"?> <!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN" "http://www.wapforum.org/DTD/wml12.dtd"> <wml></wml></pre> | |
| | <pre><?xml version = "1.0"?> <!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN" "http://www.wapforum.org/DTD/wml12.dtd"> <wml> <card> Some links: <</card></wml></pre> | |
| | xml version = "1.0"? wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN"<br "http://www.wapforum.org/DTD/wml12.dtd"> <wml> <card> Some links: <anchor title="Link1"> <anchor title="Link1"> <go href="d1.wml"></go>News</anchor> <anchor title="Link2"></anchor></anchor></card></wml> | |
| | xml version = "1.0"? wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN"<br "http://www.wapforum.org/DTD/wml12.dtd"> <wml> <card> Some links: <anchor title="Link1"> <go href="d1.wml"></go>News</anchor> <anchor title="Link2"> <anchor title="Link2"> <go href="d2.wml"></go>Sports</anchor></anchor></card></wml> | |
| | xml version = "1.0"? wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN"<br "http://www.wapforum.org/DTD/wml12.dtd"> <wml> <card> Some links: <anchor title="Link1"> <anchor title="Link1"> <go href="d1.wml"></go>News</anchor> <anchor title="Link2"></anchor></anchor></card></wml> | |
| Spec | <pre><?xml version = "1.0"?> <!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN" "http://www.wapforum.org/DTD/wml12.dtd"> <wml> <card> Some links: <anchor title="Link1"> <go href="d1.wml"></go>News</anchor> <anchor title="Link2"> <go href="d2.wml"></go>Sports</anchor><</card></wml></pre> | |
| Spec | <pre><?xml version = "1.0"?> <!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN" "http://www.wapforum.org/DTD/wml12.dtd"> <wml> <card> Some links: <anchor title="Link1"> <go href="d1.wml"></go>News</anchor> <anchor title="Link2"> <go href="d1.wml"></go>Sports</anchor> </card></wml></pre> | /een |
| Spec | <pre><?xml version = "1.0"?> <!DOCTYPE wml PUBLIC "-//WAPFORUM//DTD WML 1.2//EN" "http://www.wapforum.org/DTD/wml12.dtd"> <wml> <card> Some links: <anchor title="Link1"> <go href="d1.wml"></go>News</anchor> <anchor title="Link2"> <go href="d2.wml"></go>Sports</anchor><</card></wml></pre> | /een |

- To navigate to a particular card, specify a URL with the following syntax:
 - deck_URL#card_id
- If you do not specify a card, the device automatically displays the first card in the deck.