

CMSC 436 Quiz #9

April 18, 2013

Name: _____

Directory ID: _____

Problem 1

Why should we always externalize resources?[2pts]

Solution:

We should always externalize resources so that you can maintain them independently. Externalizing your resources also allows you to provide alternative resources that support specific device configurations such as different languages or screen sizes.

Problem 2

Imagine you have an application icon, icon.png, and need unique version of it for different locales, e.g., English-Canadian and French-Canadian. How would you do this without copying the image to each locale directory? [3pts]

Solution:

We can save the image that's used for both as icon_ca.png (any name other than icon.png) and put it in the default res/drawable/ directory. Then create an icon.xml file in res/drawable-en-rCA/ and res/drawable-fr-rCA/ that refers to the icon_ca.png resource using the <bitmap> element. This allows you to store just one version of the PNG file and two small XML files that point to it.

Problem 3

What is wrong with the names of following resources directories?[3pts]

res/drawable-hdpi-port/	The qualifiers has wrong order.
res/drawable/drawable-en/	Alternative resource directories cannot be nested.
res/drawable-rES-rFR/	Only one value for each qualifier type is supported.

Determine the correctness of following statements. [2pts]

✓	✗	Description
<input type="checkbox"/>	<input checked="" type="checkbox"/>	You can save resource files directly inside the res/ directory.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	When you create alternative resources in a new directory, Android will automatically use the resources no matter what the files are named.