

CIS 3515 Assignment 6

Instructions: Extend your previous application by using string resources and adding a localization for the French language for any region. You will first update the application you worked on in the last lab to ensure that text labels and all string literals are replaced with strings from a resource file. You will then provide a translation for a second language.

1. Create a new branch of your previous assignment and use it as a starting point.

If your previous application was incomplete, email the instructor. Create a **Fork** of the version provided by the instructor for your starting point.

As a reminder, please perform commits relatively frequently with descriptive commit messages.

2. Place a label (TextView) above the RecyclerView in your MainActivity, giving instructions about how to use your app. Something like “*Click an image below to view*” will suffice.
3. Add string resources to your application to provide the text necessary for the label you just added, as well as every displayed text value in your application, including the name/descriptions associated with the images your application displays. While your initial intuition might be to use individual String resource elements for your descriptions, we’ll employ a slightly more elegant approach and use a String-array resource:
<https://developer.android.com/guide/topics/resources/string-resource.html>

IMPORTANT: Once completed, no strings that are ever **visible** to the user should be “hard-coded” in your app. That is, if the user can see it, then it must be coming from a string resource and **not** be a string literal written directly into your code or a resource file (other than the strings.xml file of course). Otherwise Android would not be able to translate the string.

4. When modifying your application code to use string resources to display the labels in your view, you can retrieve a string-array resource as follows:

```
val myArray = [context.]resources.getStringArray(R.array.my_array)
```

5. Create a new **strings.xml** file for your French translations

1. Ways to get translations (if you don’t know the language)

A) Good → Google translate

B) Better → Spend a semester abroad, but it’s kinda late for that plan right now

C) Best → Pay a translation service. Not practical for a college course, so let’s try Plan A

6. Test your application by changing the Language of your virtual device from English to French. You will find the Language configuration under Device Settings. Verify that your string labels are properly updated when your application language is switched.

Rubric

Application based on git branch of previous lab	20
Application uses string resources in place of all hard-coded strings and arrays	40
Application provides French translation for all string resource elements	40