CSCI 2120: Software Design & Development II

UNIT4: UI management

GUI framework

JavaFX Text Attribute: Font

Overview

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Introduction

- The JavaFX Font class, javafx.scene.text.Font, enables you to load different Fonts for use in your JavaFX applications.
- A font is a text style. All text rendered with the same font will look similar.
- In this JavaFX Font lecture you will learn how to load and set fonts in JavaFX.

Create Font Instance

To use fonts in JavaFX you must create a JavaFX Font instance. The easiest way to create a JavaFX Font instance is to use the static factory methods in the Font class.

The following example shows how to create JavaFX Font instances using the many variations of the Font class static factory methods:

As you can see, the Font factory methods enable you to create Font instances representing different font families, font sizes, font weights and font postures.

Using the Font Instance

Once you have created a JavaFX Font instance you use it by setting it on whatever JavaFX component capable of using a Font. For instance, you can set it on a **JavaFX Text** control.

Here is an example of setting a Font instance on a Text element:

```
Font font = Font.font("Arial");
Text text = new Text("This is the text");
text.setFont(font);
```

Precisely how a Font object is applied to a given JavaFX element depends on the specific JavaFX element. In the JavaFX Text example the Font object is applied via the Text setFont() method, as shown above.

List Installed Font Families and Names

The JavaFX Font class provides two static methods that can list the font families and font names installed on the system. These methods are the getFamilies() and getFontNames() methods.

Here are some examples of calling these methods:

```
List<String> fontFamilies = Font.getFamilies();
List<String> fontNames = Font.getFontNames();
```

Both font family names and font names can be used when creating a Font instance. Provide either the font family name or font name in the Font factory method fontFamily parameter.

To see the actual names, loop through the lists above and print out their names, like this:

```
for(String item : fontFamilies) {
   System.out.println(item);
}

for(String item : fontNames) {
   System.out.println(item);
}
```

END