

Deliverable #2

The Boyoz

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The Testing Process

Testing will be done with a script command which will:

- compile classes that will be used in testing
- read test case files and execute methods with specified input
- compare the method's result to the expected output
- log result in an html file

Tested Items

ContrastChecker.java

- distanceColor()
- computerContrast()

ColorConverter.java

- rgb2Hsl()
- hex2Rgb()

DistanceCalculator.java

- calculate()

Testing Schedule

09/22/2020-10/05/2020: Design a detailed test plan and develop test cases for multiple methods and classes.

10/13/2020: Finish test cases and update current plan

10/27/2020: Finish Automated Tests

Test Recording Procedures

Each test result will be parsed into an html file and upon completion the file will be displayed on the user's browser.

Hardware and Software Requirements

Hardware: Possessing a computer that can allocate enough space in memory to clone the open-source documents

Software: Utilising Git and GitHub, Java, OS Terminal

Constraints

Meetings with Team (connectivity, work conflicts, sickness, emergencies, etc.)

System Tests

Test Case 1:

```
ColorConverter  
rgb2Hsl(Color color)  
0,0,0  
hsl(0, 0%, 0%)
```

Test Case 2:

```
ColorConverter  
rgb2Hsl(Color color)  
255,255,255  
hsl(0, 0%, 100%)
```

Test Case 3:

```
ColorConverter  
rgb2Hsl(Color color)  
1,2,3  
hsl(210, 50%, .8%)
```

Test Case 4:

```
ColorConverter  
rgb2Hsl(Color color)  
0,0,123  
hsl(240, 100%, 24.1%)
```

Test Case 5:

```
ColorConverter  
rgb2Hsl(Color color)  
81,54,200  
hsl(292.2, 57.5%, 49.8%)
```