Edinburgh Napier UNIVERSITY

Coursework Report

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Abstract

Text encoder website that that converts simple text into multiple styles. It includes a classic Caesar Cipher, Leet Speak, Bubble Text, Reverse Text and Base26.

Keywords – Cypher, website, Caesar cypher, bubble text, leet, leet speak, reverse, base26

1 Introduction

The website has a simple design, just a few buttons on the home page, one for each cipher, and a home button for each cipher page, and it's really easy to understand and use. It's designed purpose is to encode text in various styles.

2 Software Design

My approach for this task is creating various HTML files, one common StyleSheet and a JavaScript fine that should include every cipher used. The colours used will bring but appealing to the eye, text large enough with no fancy colouring, the text boxes big and centered so they're easy to reach and all these designed in the CSS StyleSheet. Research regarding the classic Caesar cipher will have to be done in advance. In order to make the website more appealing to the eye, it will be "branded" under the name "enCode", which will have a little epsilon Greek letter as it's "logo".

3 Implementation

The approach can be seen even from the directory. There is one StyleSheet that is applied to each HTML page to help out simplifying the design and it's consistency. There is a JavaScript file which contains all the ciphers, and several HTML pages, and index one and one for each cipher used.

3.1 HTML Head Section

Everything essential for this website will be referenced right from the beginning. That includes the CSS and the JavaScript files. In order to improve consistency, every web page will have the very same heading, but also the footer.

Listing 1: CSS and JavaScript referencing

```
1        <head>
2            <script src="scripts/cyphers.js"></script>
3            <link rel="stylesheet" href="styles/style.css" type="text/css" />
4            <title> enCode </title>
5            <link rel="shortcut icon" href="images/Icon.ico" />
6        </head>
7
```

3.2 Footer

As mentioned earlier, every page will have the same footer. This helps out the consistency, and should make a user less disoriented on browsing the website.

Listing 2: Footing

```
1            <footer>
2                <div align="center">
3                    <p> &#169 2018 Cristian Anastasiu</p>
4                </div>
5            </footer>
6
```

4 Critical Evaluation

The website does most of what the document requested. It does have a JavaScript file in the "scripts" directory, a CSS file in the "styles" one, a few images in "images", and a set of HTML files for ciphers and an index page.

4.1 Possible Improvements

The website as it is, is far from perfect. Some easy to add features that would substantially improve it could be a decoder added onto every cipher page. Another one could be adding buttons to the home page that will replace the dull plain text. Perhaps a small table which would show the user what every letter will be converted in could be the simplest, yet most recognizable addition to the website. Of course we could hop up a league and let users sign up, and come up with their own ideas for ciphers that can be shared with others, or selecting a few favourite ones. There are infinite ways you can improve a product, but I feel it's substantial as it is right now.

5 Personal Evaluation

Throughout this coursework I haven't face any critical challenge. Most of the tasks were straight forward, and easy

to understand. Although I have gained valuable experience regarding organizing web requested files in directories, organizing elements in a web page and using GitHub. Finding information regarding the Caesar Cipher was rather easy, and coming up with my own ones was rather an imagination challenge.

References

1. The logo: www.logocrisp.com
2. Layout inspiration: www.lingojam.com/VaporwaveTextGenerator
3. Copyright sign code: www.unicode-table.com