

Website Design Ranker

Using Machine Learning

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Problem Statement

- Our project is aimed at ranking websites in terms of its design which is evaluated based on certain parameters.
- Since a perfect model for website ranking is not in practice this follows ranking according to submissions by critics.

Scope and Challenges

- There was no existing methodology for manual for analyzing and evaluating websites.
- The method which followed until this time was based on submissions by the critics.
- Our main problem in evaluate website designs was that each websites were of different layout sizes so it was hard to compare.
- Visibility, clarity and duplicate content also affected.

Proposed System

- Website Design Ranker will rank set of input websites based on certain parameters.
- The parameters we are focussing on are color and grid .
- Then we move on for public review.
- This will be helpful to finding the best website among list of websites.
- We can compare our website design with other competing websites.
- We can see how a website's design may improve in an area.

Explanation

- It is an objective analysis of website designs by ranking them based on a parameter.
- The website's CSS file is scrapped via a web scrapper and then read through.
- The file is then parsed to find hex codes based on a regular expression.
- Once the codes are found, they are counted and printed using a variable.

Methodology used

- Using the basis of colour theory, we count the number of colours to determine the ranking of the website.
- Too few colours, then the website is extremely simple and too boring.
- Too many colours, then the website is over-designed and busy.

Algorithm

- 1 Start
- 2 Using a website scraper to accept the various website addresses
- 3 Scraping through the source code of each website via CSS files
- 4 Find the hex codes of all elements of the website and count them with a count variable
- 5 If count == 0
- (4.1) Give mark as 0
- 6 else if count > 5
- (5.1) Give mark as 0
- 7 else if count <= 5
- (6.1) Give mark as 1
- 8 Stop

Current Status

- The website for public ranking of website designs is 90 percent complete.
- Main colour code segment is working and needs to be unified under one file.

Project Completion Time

- 22nd November, 2019

Experimental result

- An example 'style.css' from a website template was downloaded and parsed through to test the colour code program. The number of colour codes were found and printed.
- A number of websites' front page's screenshots were taken using the website screenshot program.

Social and ethical relevance

- Eliminates subjectivity and unfair competitions based on peoples' biases.
- Shows how to improve user experience of a website by showing the problems of the website.

Conclusion

- Here we can see the logical differences in the approaches that our algorithm takes versus any existing methods.
- Our method relies on an objective and automated method that is consistent in nature as opposed to the subjective methods of the existing methods.