Netscapes report

Gintare, Stephanie, Chris

**Tuesday 23rd January 2018, by 15:00**

A zip file that includes:  A ~1000-word report (.docx)

Introduction

Introduction (general overview of this project, hypothesis or questions that were created at the beginning of the project – Why is this work important? What are you trying to achieve? Aims and objectives). [100 - 150 words]

The aim of the project was to externalise, through simple data visualisation, an individual users personality using the five factor model of personality traits .This would be interactive and immersive, allowing an individual user to input their own data and effect the outcome of the live visualisation. We wanted to offer an artistic representation of the data as well as using different methods of realizations.

Background

Background (all related references that have inspired this work, or any philosophical, theoretical, or practical context that this development is based on. Include at least 5 references here) [300 words]

For based our projection on a Five Factor model of personality (also known as Big 5).

We were inspired by ….. Jellyfish animation (REFERENCE) … personality/fish thing (REFERENCE)

PUT ALL RESEARCH HERE

Methodology

Methodology (the development practice and structure that was followed to make this project. Any specific techniques or technologies used should be mentioned here). [300 words]

The origin of our project was to explore the idea of personality and how that could be represented using technology and software, after dropping the idea of robots chose to work with a visual media.

Head And Base (Chris)

HC-05 Bluetooth Module married to Arduino Uno that drove the Adafruit 24 RGB Neopixel LED Ring to offer colour changes inside the head. A light diffuser was designed and drawn via CAD and 3D printed to diffuse the intense lights inside the glass head.

The Interface base (head mount) was designed on  CAD and laser cut from 3mm & 6mm Mediate board,assembled with wood glues and painted.

Back End (Steph)

Creating slider interface in HTML/CSS .etc

Setting up mongodb

Using Raspberry Pi, touchscreen for serial connection to arduino with LED, then modifying to use bluetooth instead

...We decided to switch from MongoDB to mySQL because of difficulties connecting app .etc

We will project this in the IVT dome… as it fills your vision much like how your personality effects how you see the world around you.

Animation (Gintare)

For animation we used p5.js. It is a JavaScript library which is very similar to Processing the main difference between the two is that p5.js works on the website instead of just in a software. I had some previous experience working with Processing since they both work on the same principles it was not that hard to learn a new library. As for the animation itself I took some code from the codepen.io and done some tweaking in order to get the desired result. We wanted to create organic shapes that would be altered with range sliders.

Why p5.js… what code… why

Analysis/Discussion of Results

Analysis / Discussion of Results (provide a critical analysis of your work, so as to explain what works and what doesn’t, what needs to be adjusted or needs to be done in a future update. [200 words]

Conclusion

Conclusion (Recap all previous content, summarize, explain what is the main outcome of this work, and close the report) [100 - 150 words]

References

References section (include all references here – 10 to 20)

**Code**

Neo Pixel reference code

Created April 22, 2015

Hammad Tariq, Incubator (Pakistan)

<https://codepen.io/seanstopnik/pen/CeLqA>

<https://codepen.io/p5art/pen/PqpwgO>

**Books and Online**

Annotated Bibliography

Annotated Bibliography section (all books you have reviewed for this project)

Appendix

Appendix section – here you are asked to provide the following:

1.     Project development related content, such as time- planning, budget analysis, description of resources used

2.     Photo documentation of your projects

3.     Break down of duties and responsibilities amongst team members (if this is an individual project, then there is no need)

### Project Breakdown of responsibilities

#### Research Background

Chris - The duties included researching how a persona might be used to generate data to use form the project and the background research for the project

#### System diagrams and design

Steph’ and Chris – Shared diagram generations and negotiations such as Mongo DB document systems and working systems diagrams

#### Animation systems

Chris – Duties included designing an working through the theoretical sysems on how animations may work

#### Animations

Gintare and Chris – duties including working together to design visualisations of data, Gintare coding in p5.js

#### Animation Codes

Gintare – duties included writing the code and testing within the dome.

#### Data Base and Back end

Steph’- enable entire read write to and from database, enable data entry to write the the animations code (with Gintare).

#### User Interfacing

Design – Chris, Code Gintare, Data Steph’.

#### Physical interface build and Design

Chris/ Steph’- CAD, laser cutting, physical build and finishing, LED ring code and build Steph.­

4.     Any additional related links for your work (final website, blog links, GitHub links, etc)

**Also include**

b.     A folder with digital photos of your sketches and designs that demonstrate your development process (minimum of 10 photos, in high-quality JPEG format, 72dpi, resolution of 1280x720px or 720x1280px)

c. A folder with digital photos and screenshots that display your final work/installation/system (minimum of 10 photos, in high quality

JPEG format, 120 dpi, resolution of 1920x1080px or

1080x1920px)

d.     A folder that contains all related code used for this work, including dependencies, libraries, media files, and so on. Make sure that you include instructions to explain functionality (README file), and that all code has been documented thoroughly.

2) All code files that you have used for this project (i.e. HTML, CSS, Javascript, and so on), have to be submitted in addition as individual text files. Thus, for example if there is any code written in a JS file, you need to submit a TXT file version and submit it individually on DLE. Repeat for all files that include code that you have developed for this work.

3) If there are any outputs related to large media content (i.e. video or sound work), you will have to copy them in a USB stick and submit them to the Students Office (RLB109) before the deadline.

4) All projects need to have their individual GitHub link. All team members need to demonstrate that they have participated in the development of the GitHub project, either by coding, upload of media and design content, documentation, and so on. Optionally, you may have a project website as well. Project links need to be submitted here as an individual TXT file.