# VOYANT AND THE DATA LIFE CYCLE (BY JOHN HUNDLEY):

- This project has tracked the creation of data in Voyant Tools and how this data relates to the data life cycle and whether this data can be classified as FAIR data.

- Why? Interested in the data life cycle and if something I created could be classed as FAIR data. Voyant is an easy to use web-based server. There are a number of ways one can create data through Voyant. Primarily, it is a textual analysis tool. The engine searches documents that are uploaded and collates the data into a number of exportable graphs, tables, and visual representations.

- In the end, I discovered that only two of the four letters of the FAIR acronym (Fair, Accessible, Interoperable, Reusable) applied the data that was created: interoperable and reusable.

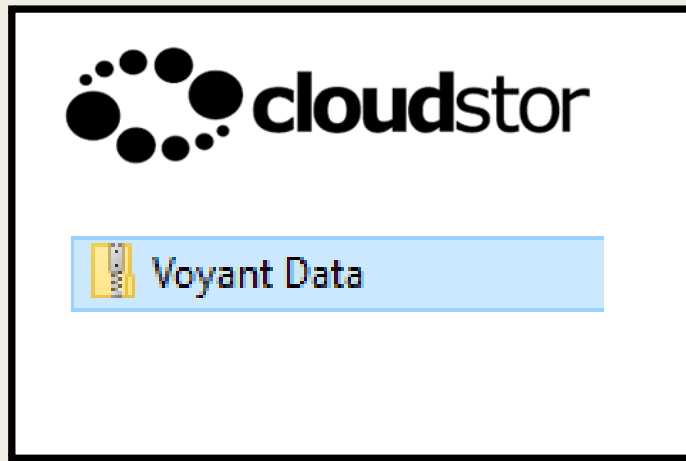- So what is the data life cycle in relation to Voyant?:
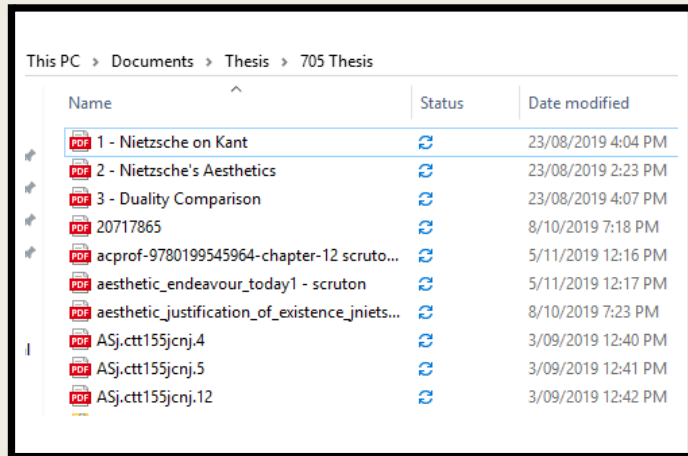
1. Creation and Capture
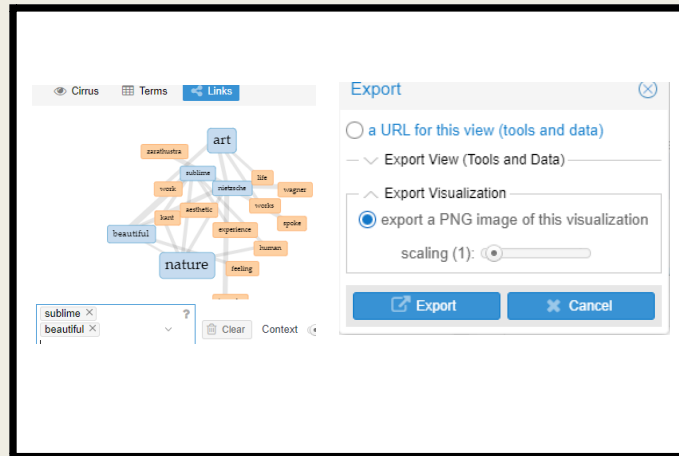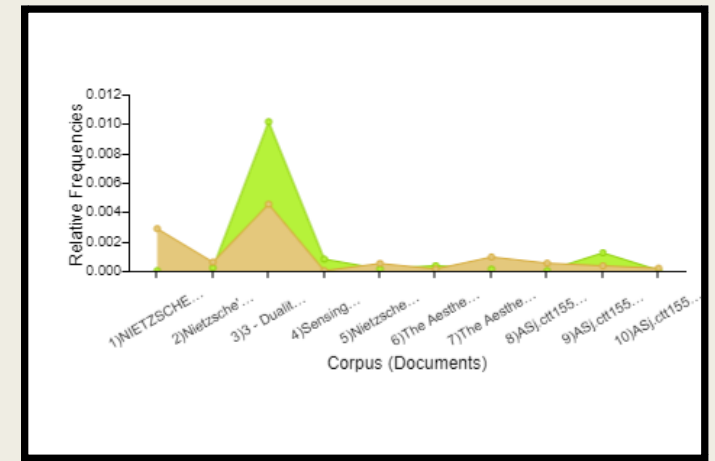

2. Synthesis and Aggregation

3. Storage and Security

4. Archive and Purge

5. Access and Analyse

6. Share

- **1. Create and Capture:** I used the MQ Library system to find required sources and stored them in one folder on my desktop titled THESIS. I then opened Voyant on my web browser and chose all the files in the folder to open up as a CORPUS in Voyant.

- **2. Synthesis and Aggregation:** This stage involved the use of three tools in Voyant: CIRRUS, TRENDS, and LINKS. With each tool, I entered in my key phrase: beautiful and sublime, and see where the connections, links, frequencies, and distribution across the files I uploaded.

- **3. Storage and Security:** To adequately store and back up the data, I used Cloudstor. I created a file on Cloudstor and placed the three graphs inside and locked the file so that only I am able to use it.

- **4. Archive and Purge:** I downloaded Duplicati and went through the installation process and then backed up my hard-drive.

- **5. Access and Analyse:** The three graphs were avaliable on both my hard-drive and on Cloudstor. The scope of this data

meant that I did not need to create multiple copies of it so as to never change the master copy. Secondly, in terms of analysing it, this can simply be done from my laptop from viewing the graphs. This takes place through the Windows Photo Viewer. All images are saved as PNG files.

- **6. Share:** Sharing this data means several different things. One, I could work to publish this data in a journal article. Two, I could share it through the Presentations in Week 14. Or, three, I could use it as part of my research. The data is reusable as if someone was to use the exact same sources I have done, and key in the very same search terms, they would achieve the same results.

- This version of the data life cycle was taken from: https://www.axian.com/2016/08/30/the-data-lifecycle-enabling-business-growth/