Creative Coding 2 – Final Assignment Report

Application Name & Description: **TwitterTranslated**
- Translated Twitter Feed Database: Application

How does it work?
- The JSON library searches through Twitter feeds containing a specific word/ phrase in realtime and imports them into Python. Python separates each Twitter feed into certain attributes which are stored into a database created through SQlite3. The database stores each tweet's ID, username, content and translation.

  If the content is in a foreign language then the Bing Translator API will detect and translate the language into English and store the value into the 'translation' field of each tweet or leave "null" if content is originally English.

  Processing is then used to help give the code a more visually appealing, dynamic interface through the use of a SQlite3 Java driver to help transfer data from Python & SQlite3 to Processing.

What Languages & Applications are used and why?
- **Python** – to perform main Technical functions of the code e.g. importing libraries required and allowing manipulation of the data within the database.
- **SQlite3** – to work as a database; storing & displaying the Twitter feed data.
- **Processing** – to give a more visually appealing display of the Python code & Sqlite3 database.

Why have I chosen to make this Project?
- I personally feel that translation services within social networking sites has seen limited growth overall since their creation. Even with the addition of Google or Bing Translate it remains not entirely simple and quick to use or foolproof in working.

- It would be of great benefit to me personally to use this app as I subscribe & follow to quite a lot of people, pages & accounts that post/have posted in a foreign language and it's been troublesome gaining a translation easily for myself.

I decided to use use shades of blue alongside it's invert; yellow/gold & white as its colour scheme. I tried to keep colours to a minimum.

I devised a grid system to simplify the

visual layout of the database & incorporated a
previous, next & home button to help scroll
through tweets. Instruction notes are also
included due to consider issues the user would experience while using (i.e. UXD).

Error(s)/Issue(s):
Numerous issues were faced during creation of the application but all bar one have been fixed due to research & debugging of the application. The remaining temporary issue is:

- When loading the Python file there is a slightly rare chance (5%) that the application will experience an "Utf-8"error due to Sqlite3 receiving a unknown character as part of a Tweet's content (e.g. Japanese characters). Eventually through multiple re-runs. Python/SQlite3 resolves the issues. I've only experienced this once however and don't feel my application is broken due to it.

Note: *For a more detailed explanation of Technical & Design creation please look through my commented code within both the Python & Processing files.*

Conclusion:
- Overall, I am very satisfied with my project for being able to complete it to the best of my ability. I now also know that my overall knowledge of coding has improved which has given me more confidence within this field which I hope to develop next year technically through "Web Design" & theoretically through "Multimedia Authorising" if these two options are available for next year's C.T. Modules. My application remains very practical for myself which has made completing it a real personal benefit for myself within online journalism.