# Elaboration I

## Georgia Rutherford

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## 1  Step by Step Problem

I recently started using hypothes.is for my note taking. While I find the note taking itself to be quicker and clearer than my previous methods, the process of saving and backing up my notes is far more complicated. The process involves:

1. Open document that needs annotating

2. Turn on hypothes.is browser extension

3. Highlight section of interesting text

4. Make a note as to why it is interesting in provided space

5. Tag annotations

6. Make more general notes in "Page Notes" section

7. Finish annotating document

8. Copy URL

9. Open https://jonudell.info/h/facet/?max=50

10. Paste URL in the space provided

11. Click Save document as HTML

12. Rename file from "hypothesis" to something more appropriate

13. Open GitHub

14. Open "Notes" repository

15. Click "Upload files"

16. Click "Choose your files"

17. Choose file to upload

18. Create commit name and description

## 2 Step by Step Solution

I want to create a tool that will make the saving and backing up process associated with note taking on hypothes.is to be as easy as it currently is for me with google docs. I would want this tool to do the following steps:

1. Allows for user input of URL

2. Allows for user input of file name

3. Allows for user input of description

4. Opens https://jonudell.info/h/facet/?max=50

5. Enters URL

6. Creates HTML file

7. Saves HTML file

8. Renames HTML file to previously inputted name

9. Saves file to output folder

10. Opens github

11. Opens "Notes" repository

12. Goes to "Upload files"

13. Goes to "Choose your files"

14. Choose file to upload

15. Names previously input file name

16. Creates description previously input

## 3 Technologies that Can Accomplish Steps

To create this tool there are a few different components I would need. First I would need the API of Hypothes.is , the API of the Facet tool, and the API of Github. I would need each of these API's so that my program can communicate with these websites. Next I would need a programming language like R to connect these different API's.

A programming language like R would be useful for allowing URL, file name and description (steps 1-3). Then I would need my program to communicate with the Facet API to create and download the HTML file (steps 4-7). Renaming and moving the file to another directory could be done with the mv command (steps 8-9). Next I would need my program to interact with the Github API in

order to upload my file (steps 10-16).

One risk for this project is that I would need to have access to the API. I have assumed at this stage that the Facet tool is the easiest way to export since it is developed by one of hypothes.is' developers. However if I can't get access to Facets API I may need to find an alternative route through using the API of hypothes.is itself. If this is the case I may need to change this project to include formatting the hypothes.is output in a readable way.