Lab *XX – Title*

Author: Jay Bhakta
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INTRODUCTION

In this lab, I will set up and use a more secure browser and search engine, search up a few interests on mine using Google hacking and generative AI, fake an identity and see if I can detect deep fakes, and filter publicly available web sites from Slack.

PROCESS

Step *X*: *Title*

Breakpoint 1:

- **I did not change lots of the default Firefox security settings; however, I turned off the setting which autofill's credit card information and suggestions from sponsors.**
- **I chose Google as my default search engine. I chose it because I am most comfortable on it due to having always used it before. I thing I will change is to take off some shortcuts like the amazon, eBay, etc. search engines. For me I value convenience and access highly, but I would also like to make sure that security and privacy is not an issue. Therefore, as long there is sufficient amounts of security and privacy, I am fine with however much convenience/access I have.**

Forms and Autofill

☑ Autofill addresses   Learn more   Saved Addresses...

☐ Autofill credit cards   Learn more   Saved Credit Cards...

Figure 1: Modified Firefox privacy and security settings.

Suggestions from sponsors

Support the development of Firefox with occasional sponsored suggestions.

Figure 2: Modified Firefox security and privacy settings.

Breakpoint 2:

- **I entered in < *intitle: "cyber security" in text: entry-level* >. I used intitle and in text because I was looking for cybersecurity entry-level job opportunities. I feel like using keyword/operator pairs can be really useful to help narrow down searches and I will definitely be using this in**

the future. Overall, the keyword/operator pairs can help you save time and narrow the scope of your search.

- **I don't really know the scope of what chat GPT answers so I entered a question as my prompt. The AI engine gave me answers that I would receive from a website if I asked the question on Google for example. I have heard that chat GPT is capable of writing essays also so I think there is many things the AI engine is capable of. Overall, I feel as ChatGPT is an innovative tool which can be used for many things.**
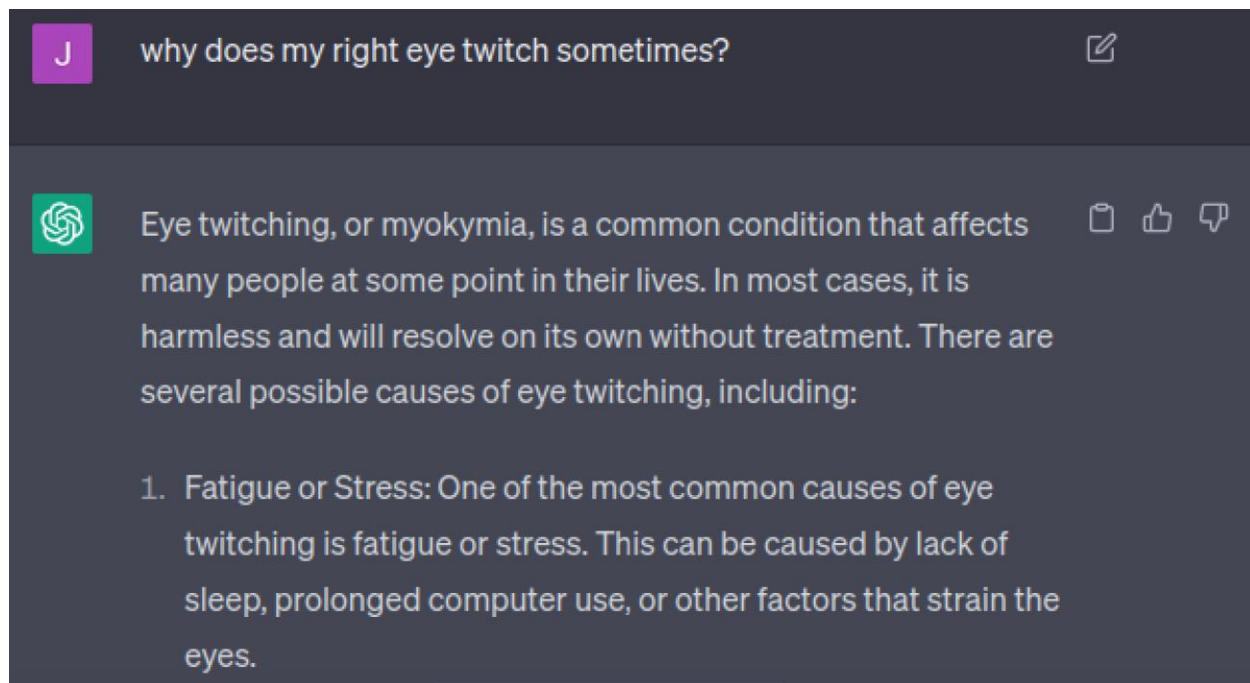

Figure 3: My work for Part 2 Step 1.
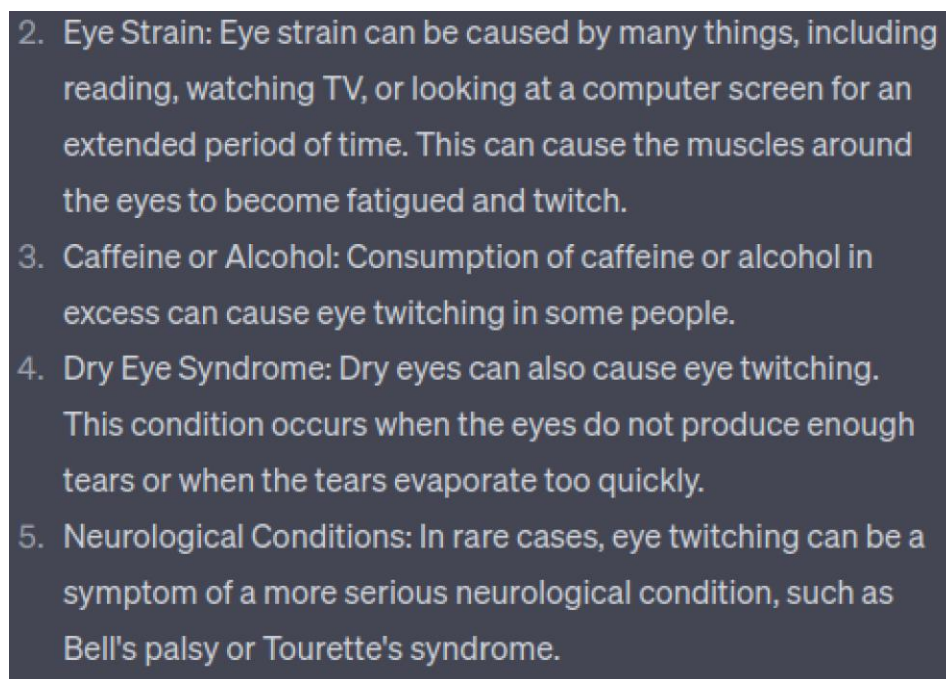
Figure 4: My work for Part 2 Step 2.

Figure 5: My work for Part 2 Step 2.

Breakpoint 3:

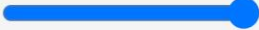- **This is Armando Pace Hafner, a 32-year-old male from Ecuador.**

Figure 6: My work for Part 3 Step 1.

Figure 7: My work for Part 3 Step 2.

Please play the video before submitting. You have rated 3 of 44 text, audio, and video items.

Figure 8: My work for Part 3 Step 2

Breakpoint 4:

- **Making a file in the lab-04 folder named links.sh and then making it executable.**

```
jay@jay-VirtualBox:~/Documents/lab-04$ touch links.sh
jay@jay-VirtualBox:~/Documents/lab-04$ chmod +x links.sh
```

Figure 9: Creating a file named links.sh in the lab-04 folder, then making it executable by using [chmod +x] command.

- Listing my lab-04 directory using [ls -al] command.

```
jay@jay-VirtualBox:~/Documents/lab-04$ ls -al
total 16
drwxrwxr-x  3 jay jay 4096 May  2 22:49 .
drwxr-xr-x  4 jay jay 4096 May  2 20:21 ..
drwxrwxr-x 22 jay jay 4096 May  2 20:31 IS-1003-Slack-Export
-rwxrwxr-x  1 jay jay   93 May  2 22:46 links.sh
```

Figure 10: Listing directory.

- I created this script in the links.sh file. I created the contents of this script by following the steps in the lab 04 pdf.

```bash
#!/bin/bash

find . -type f -name "*.json" -print0 |

{
 while read -d $'\0' file
 do
   grep '"url": "https:.*"' $file |
   grep -v -e 'slack.com' -e 'zoom.us' |
   sed -e 's/\\\//\//g' -e 's/,//g' |
   tr -d '"' |
   cut -b 38- >> links.txt
done

 sort -u links.txt -o links.txt
}
```

Figure 11: The link.sh file script.

- After executing the links.sh file, I was able to create a links.txt file. This file is the filtered version of the links.sh file. This is a partial output from my GUI view of the YouTube video link.


```
Open  ⌄  ⊡                          links.txt                          Save  ☰  –  ⊡  ✕
                              ~/Documents/lab-04

 83 https://underthewire.tech/
 84 https://www.howtogeek.com/691520/what-is-microsoft-editor-and-how-do-i-use-it/
 85 https://www.leveleffect.com/cyber-defense-quiz
 86 https://utsa.blackboard.com/webapps/blackboard/content/launchLink.jsp?course_id=_241524_1&content_id=_8533908_1&mode=view
 87 https://utsa.blackboard.com/webapps/blackboard/content/launchLink.jsp?course_id=_241522_1&content_id=_8390049_1&mode=cpview
 88          url: https://linuxrise.com/install-ubuntu-virtualbox
 89 https://linuxrise.com/install-ubuntu-virtualbox
 90 https://nolowiz.com/virtualbox-guest-additions-common-problems-and-solutions/
 91 https://www.google.com/search?
    q=failed+to+acquire+the+virtualbox+com+object+mac&sxsrf=AJOqlzVW0IkCwHs4TwHsYQI3xvYCpqyFTw%3A1677030822326&source=hp&ei=pnX1Y8yRE
    wiz#fpstate=ive&vld=cid:7b798300vid:ayb-PsrAy-M
 92          url: https://helpdeskgeek.com/help-desk/6-ways-to-fix-virtualbox-result-code-e_fail-0x80004005-error-in-windows/
    #:~:text=VirtualBox%20may%20also%20display%20the%20E_FAIL%20%280x80004005%29%20errorhas%20the%20same%20effect%20as%20shutting%20i
 93 https://www.youtube.com/watch?v=mVRN6vu12Cw
 94 https://www.youtube.com/watch?v=sB_5fqiysi4
 95 https://www.wintips.org/fix-virtualbox-document-is-empty/
 96          url: https://www.debugpoint.com/virtualbox-needs-microsoft-visual-c/
 97 https://www.pragmaticlinux.com/2022/04/install-the-virtualbox-guest-additions-in-ubuntu-22-04/
 98 https://www.youtube.com/watch?v=OijSqk8ONRA
 99 https://askubuntu.com/questions/90318/virtualbox-doesnt-have-devices-menu
100 https://swiftsilentdeadly.com/vms-part-2-installing-and-updating-ubuntu-in-virtualbox/
101 https://helpdeskgeek.com/help-desk/6-ways-to-fix-virtualbox-result-code-e_fail-0x80004005-error-in-windows/
    #:~:text=VirtualBox%20may%20also%20display%20the%20E_FAIL%20%280x80004005%29%20errorhas%20the%20same%20effect%20as%20shutting%20i
102 https://www.debugpoint.com/virtualbox-needs-microsoft-visual-c/
103 https://www.youtube.com/watch?v=KYFTqYA_A6k
104 https://www.youtube.com/watch?v=iXf0iHKR7sg
105 https://www.nakivo.com/blog/make-virtualbox-full-screen/
106 https://itsfoss.com/what-is-foss/
```

Figure 12: Partial output of the links.txt file.

LIMITATIONS/CONCLUSION

- I think I was able to complete everything in this lab. Al though this lab was very difficult, I think I was able to relatively understand the main aspects of the lab; however, I failed to answer the last question from breakpoint 4 because I don't understand what it is asking. Other than this the main limitation was being able to follow the lab instructions since it was very wordy.
- I think this lab will be very helpful in the future because I learned lots of new things including how to specify your web searches to save time. Also being able to create files and execute them is a good skill to gain for developing software, applications, and more.
- The skills gained from this lab are going to be very useful because this lab focuses on multiple things. These things I have been using for a long time but I learned stuff I still didn't know.

REFERENCES

- I used all the references from the instruction's pdf. And didn't use any outside source.

COLLABORATION

- I did not collaborate with anyone to complete this lab.