CSCI 77800: Ethics and Computer Science

ASYNC/HW for Week #5 – 9/26/2024

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ASYNC

1. ASYNC 5 is EthiCS video 3. Please see Blackboard and the associated spreadsheet for more information. The reading below may help your understanding of the topics this week.

HW – Read/Watch

1. As usual, it is to your benefit to review all of the content from the SYNC session. This includes optional readings and resources that you find. Be sure that you truly understand the topic. Don't hesitate to send questions or terms to be reviewed to Edgar et3076@hunter.cuny.edu.

2. Reminder from the CS Content examination:

   "demonstrates knowledge of rules, laws, and regulations related to the development and use of computing technologies and digital information (e.g., with respect to privacy, intellectual property rights, licensing, or hacking), including those that apply in educational settings (e.g., CIPA, COPPA, FERPA), and their impact on various stakeholders"

   "New York State Teacher Certification Examinations, Field 194: Computer Science Test Design and Framework"
   https://www.nystce.nesinc.com/content/docs/NY194_OBJ_FINAL.pdf

3. Read about the Digital Millenium Copyright Act (**DMCA**) and section 512, the Online Copyright Infringement Liability Limitation Act (**OCILLA**).
   a. "The Digital Millennium Copyright Act". United States Copyright Office. https://www.copyright.gov/dmca/.
      i. Be sure to read the additional section primers: Section 512, Section 1201, Section 1202.
   b. "Online Copyright Infringement Liability Limitation Act". Wikipedia. https://en.wikipedia.org/wiki/Online_Copyright_Infringement_Liability_Limitation_Act. Read Opening through the Overview. Everything past "Safe harbor provision for online storage" is optional.
   c. **Optional reading: More history about the DMCA:** https://en.wikipedia.org/wiki/Digital_Millennium_Copyright_Act.

4. Read about ***common carrier status*** and the famous "section 230" law.
   a. "Section 230" Wikipedia. https://en.wikipedia.org/wiki/Section_230. Read the opening, Application and Limits, and Subsequent History.
   b. Villasenor, J (2022). "Social media companies and common carrier status: a primer". Brookings Institution. October 27, 2022. https://www.brookings.edu/articles/social-media-companies-and-common-carrier-status-a-primer/.
   c. **Optional additional reading, the actual law:** "47 U.S. Code § 230 – Protection for private blocking and screening of offensive material". https://www.law.cornell.edu/uscode/text/47/230

5. Read about the Children's Online Privacy and Protection Act aka **COPPA**.
    a. Cozen O'Connor (2019). "Privacy Primer: The Children's Online Privacy Protection Act (COPPA)". Cyber Law Monitor. https://www.cyberlawmonitor.com/2019/02/04/privacy-primer-the-childrens-online-privacy-protection-act-coppa/
    b. **Optional additional reading, the actual rule derived from COPPA:** 16 CFR Part 312: "PART 312—CHILDREN'S ONLINE PRIVACY PROTECTION RULE" https://www.ecfr.gov/current/title-16/chapter-I/subchapter-C/part-312.

6. Read about the Children's Internet Protection Act (**CIPA**).
    a. "Children's Internet Protection Act (CIPA)". Federal Communications Commission. Updated July 5, 2024. https://www.fcc.gov/consumers/guides/childrens-internet-protection-act.

7. The Downey/Think Python text can be found here: https://allendowney.github.io/ThinkPython/. So far, we have read Ch 1 through Ch 9.
    a. Chapter 10 (Dictionaries): https://allendowney.github.io/ThinkPython/chap10.html.
    b. Chapter 11 (Tuples): https://allendowney.github.io/ThinkPython/chap11.html.

HW – Do

1. Exercises 2+3 are estimated to be approximately 1 hour, 40 minutes. These involve making the appropriate PIP libraries work, skimming a section of the API documentation, and then modifying an existing program (#3 should be a very minor modification). These are more complex than our textbook examples.

2. Write a program that allows the user to find an image in the NASA Image and Video Library. You can find "NASA Image and Video" library on the API list here: https://api.nasa.gov/. The additional API documentation is found here: https://images.nasa.gov/docs/images.nasa.gov_api_docs.pdf.
    a. **Hint 1:** start by trying to search by yourself by manipulating the URL: https://images-api.nasa.gov/search?q=house
    b. **Hint 2:** the NASA API program shown in class is a good start, though it uses a different one of NASA's API. It would be a good base to modify appropriately.

3. Modify the program from Jupyter notebook 1 to allow the user to specify what food to search for with a prompt. You do not have to handle exceptions thrown for food types that do not exist.

4. Downey, Ch. 10 / 10.11.1 (Virtual assistant), 10.11.2 (dictionary get), 10.11.3 (has_duplicates).

5. Downey, Ch. 11 / 11.11.1 (Virtual assistant), 11.11.3 (alphabet map).