Discussion 3

OpenLab and Quiz 1 Review

Welcome! Discussion Week 3

Itinerary October 13, 2021

- Quiz review
- We are <u>NOT</u> going over homework today--please review old recordings from Discussion 1 and 2 if you need HW help or go to Rachel's office hours 5-7pm tonight in SE2 1304

Deadlines this week

- Homework 1: Friday at 11:59pm

- Quiz 1: **In class** on Friday

OpenLab

Walkthrough and Demo

OpenLab - What is it?

- Your homework grading script will be run on the UCI Computing environment -- so we want to test that our code works on it!
- Can be visited **physically** on campus through the ICS computing labs
- Can also be accessed **remotely** via SSH
  - This is UCI's "OpenLab"
  - We will go through this process today to connect and run your code on there
  - Note, I am running on Mac OS

How to Access Open Lab

There is no cloud it's just someone else's computer

(in this case, a server someone where on campus)

How to Access Open Lab

1. You need an ICS login
   a. https://support.ics.uci.edu/auth/
   b. Then send an email to helpdesk@ics.uci.edu, with your ID number, and a printout of course schedule.
   c. A robot *I think* will then respond and send you a link to login again
   d. You will create a password (your life is easier if it is possible to type)
2. Join VPN
3. Go to terminal type ssh <ucinetid>@openlab.ics.uci.edu
4. Type in the password you created (not your uci net password). Login with To factor

Linux Basics

1. See contents of directory: ls
2. Your home directory is the tilda: `~`
3. Go to directory: `cd dir`
4. Make directory: `mkdir MyDir`
5. Run a python script: `python3 mypythonscript.py`

   Python3 is already installed on the machines.

Useful Commands

1. Copy single file from local to remote (run in your local terminal):

    `scp myfile.txt UCINetID@openlab.ics.uci.edu:/remote/folder/`

2. Copy single file from remote to local (run in your local terminal):

    `scp `<u>`UCINetID@openlab.ics.uci.edu`</u>`:/remote/folder/remote.txt local.txt`

3. Copy multiple files from local to remote.

    `scp myfile1.txt myfile2.txt UCINetID@openlab.ics.uci.edu:/remote/folder/`

4. Copy all files from local to remote using scp.

    `scp * `<u>`UCINetID@openlab.ics.uci.edu`</u>`:/remote/folder/`

5. Copy all files and folders recursively from local to remote.

    scp -r * UCINetID@openlab.ics.uci.edu:/remote/folder/

For more information, search `scp` command (linux) on Google.   There is also a useful tool called FileZilla.

Quiz 1

Material Review

What should we study?

- Very similar to the **lecture slides**, make sure you **study those** and watch any **lecture recordings**
  - Weeks 1 and 2, and part of week 3 (beginning of the crawler material)
- Material on the quiz can be extrapolated from concepts on the lecture slides (not pure memorization, but no "math" solving)
- 16 questions, 30 minutes. Taken **in class** with **your** laptop!
  - Quiz will be **open-book** (slides and textbook, no other resources)
  - Try to finish Homework 1 beforehand, because some concepts from there will be covered.

Quiz Review **Trivia**

Grand prize: A virtual 2020 Ford Fusion

Participation prize: virtual piece of candy

Break up into teams of **2 people**.

Make sure you have Canvas open to look through lecture slides while we review!

Write the name of your team in the **chat**.

Definitions (1 pt each)

1. Information Retrieval
2. Search Engine
3. Relational database

What's that Search? (1 pt each)

1. Vertical search
2. Desktop search
3. Peer to peer search
4. Enterprise search

…is when you search for information on a …

a. Corporate network
b. Single source computer
c. Highly specific topic
d. Network consisting of independent nodes

Categorize that Query! (1 pt each)

- Relational database or search engine query:

1. What's going on today in Los Angeles?
2. Give me all students whose ID number starts with "8"
3. What is the weather today in New York?
4. Between 1912 and 1920, how many earthquakes occurred in Southern California?
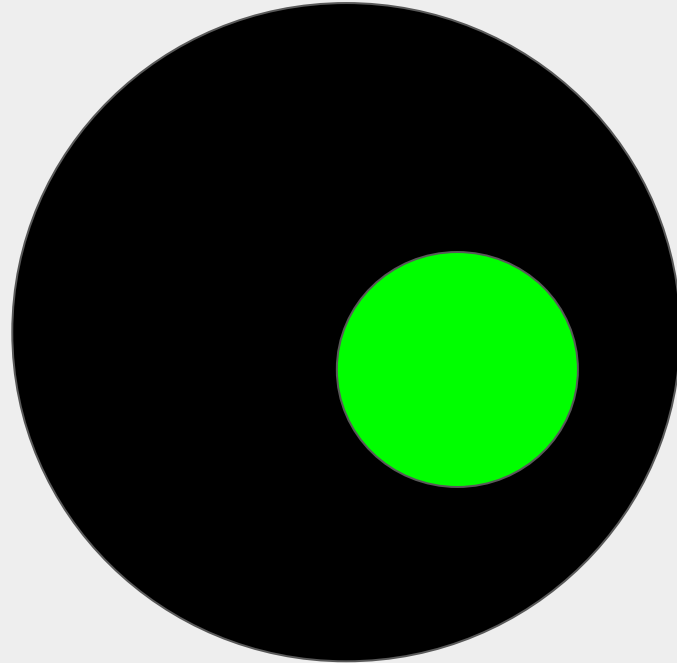5. How to print to terminal in Java

Tokenization 1pt each

1. What is tokenization? (1pt)
2. Can it change from context to context? (1 pt)
3. What are some examples of different kinds of tokenization? (1 pt)
4. What kind did we use in Homework 1? (1pt)

UR What?? 1pt each

1. What is a **URL**?
    a. Give an example
2. What is a **URI**?
    a. Give an example

Which goes in the **inner** set, and which goes in the **outer** set?

Identify the (UR) Identifier! 1pt each

Categorize each color of the URI.

`https`://`www.example.com`/`forum/questions`/?`tag=networking&order=newest`#top

Final Jeopardy!

Worth anywhere between 1 to 100 points (you choose)

How many hosts are on the Web?

Congrats on your new virtual 2020 Ford Fusion or virtual candy