

Full Stack Developer

FSD-10

Foundations of Web Development

420-WA5-AB

May 17, 2023

Agenda – Class 2

Agenda:

1. Review
2. Review Class 1 Activity
3. Review - Homework
4. Concepts
5. Group Work
6. Exit Quiz

Review

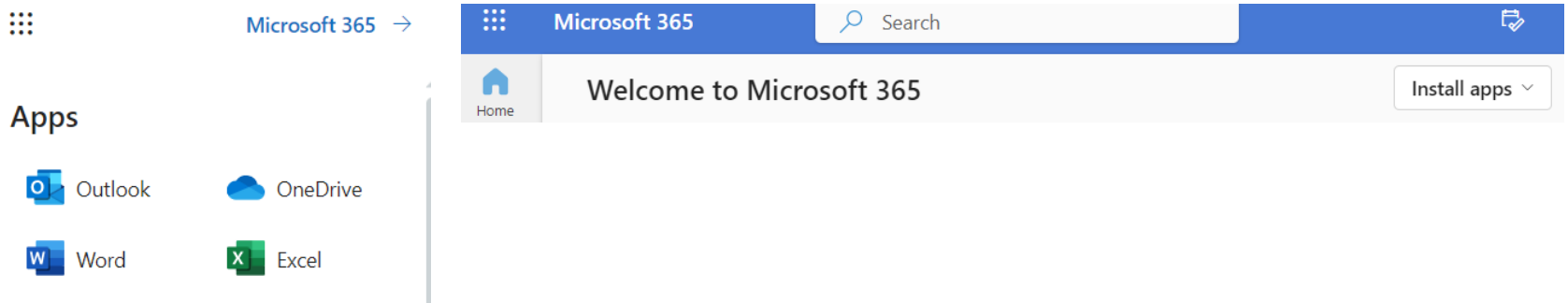
- ❖ Any questions? Were you able to help out?
The Technical Support channel



- ❖ Did you see classmates before or after class?
The Student Lounge channel



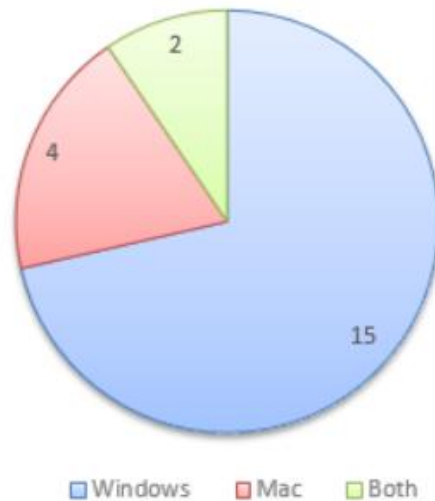
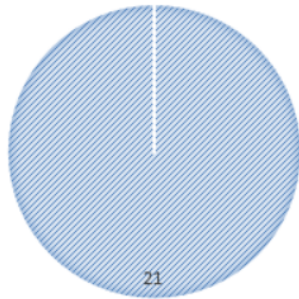
- ❖ Office 365: How to install apps locally (only if needed)
Note: On April 21, 2020, Office 365 was rebranded as Microsoft 365



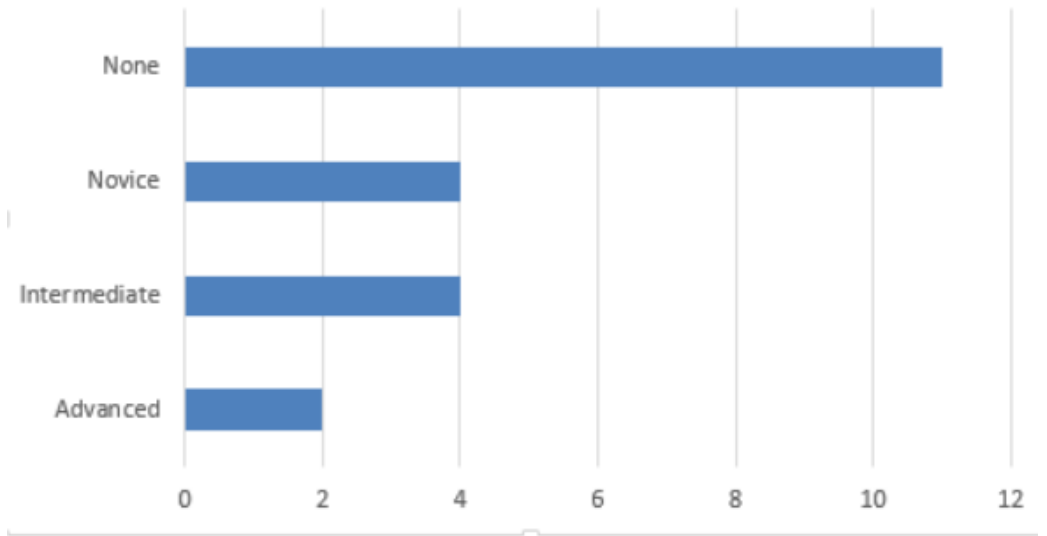
Review

❖ About Me and You

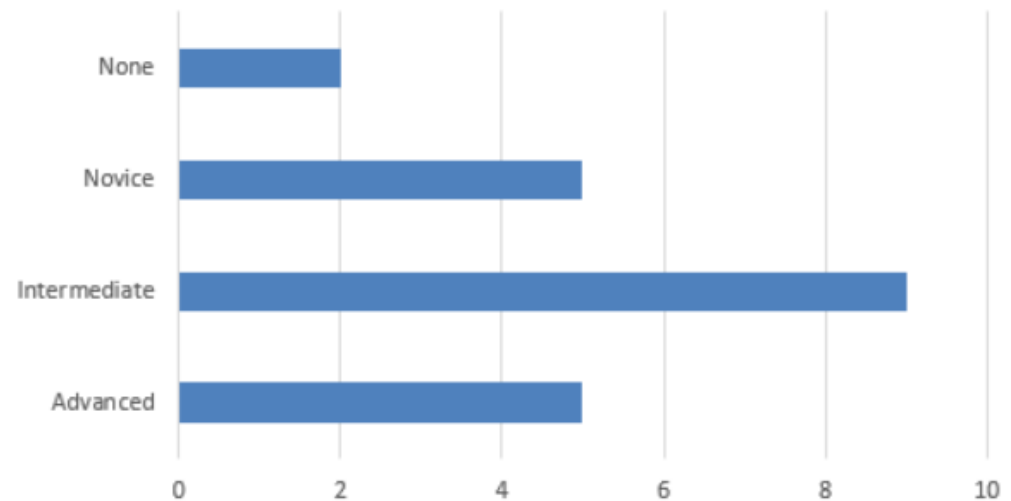
FIRST COURSE AT JOHN ABBOTT



HTML & CSS



Excel



Review Class I Activity – Any Questions?

❖ *Lea Course Document*

❖ *Acronyms*

❖ *X, X+21, X+42*

❖ Update your MyAcronyms document with your 3 acronyms

❖ Add your acronyms to the glossary on Moodle

❖ Submit your file on Lea and on Moodle – Assignments – Class Activity for Class 1



User interface (UI) design or user interface engineering is the design of user interfaces for machines and software, such as computers, home appliances, mobile devices, and other electronic devices, with the focus on maximizing usability and the user experience. In computer or software design, user interface (UI) design primarily focuses on information architecture. It is the process of building interfaces that clearly communicates to the user what's important. UI design refers to graphical user interfaces and other forms of interface design. The goal of user interface design is to make the user's interaction as simple and efficient as possible, in terms of accomplishing user goals (user-centered design).

https://en.wikipedia.org/wiki/User_interface_design

❖ Create a Word Document named MyAcronyms

1. Place your name at the top of the document
2. List your acronym (x) and what the acronym stands for
3. Paste a small picture using the Snipping Tool (as shown in class)
4. Paste a short explanation of the acronym
5. Paste the url of the website used
6. Save your file

Review of the Homework – Any Questions?

- ❖ Visit the John Abbott Library online – find the textbook: Larsen, Rob. **Beginning HTML & CSS**. Indianapolis, Ind, Wiley, 2013. E-Book QA76.76.H94

Read Chapter 1 pages 1-8
and Chapter 3 page 56 only.



- ❖ Philippe Hong. (2018). *Practical Web Design : Learn the Fundamentals of Web Design with HTML5, CSS3, Bootstrap, JQuery, and Vue.js*. Packt Publishing

Read Chapter 3 pages 57-63 only.



- ❖ Visit w3schools html introduction (optional)
https://www.w3schools.com/html/html_intro.asp
Use the Next button or the sidebar to navigate the html pages. Take a look at any of these pages

HTML Introduction

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HTML Editors
HTML Basic
HTML Elements
HTML Attributes
HTML Headings
HTML Paragraphs

Concepts

1. Lea - Course Documents – Class2_Computer_Concepts

- Motherboard
- Flow of information through a computer system



Concepts

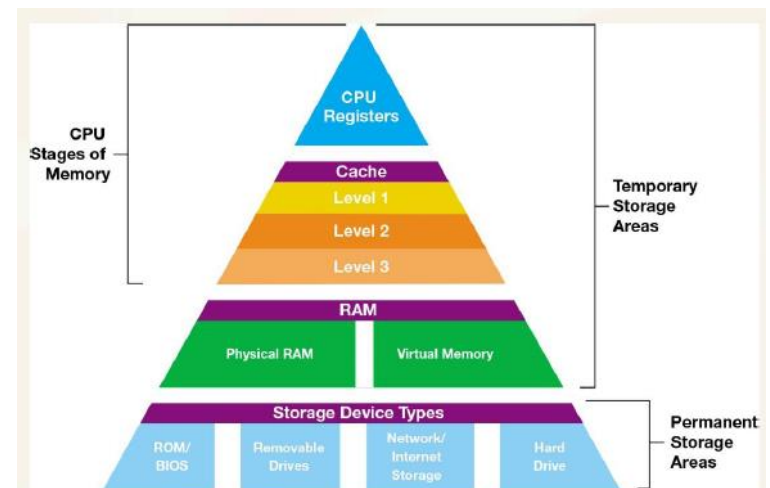
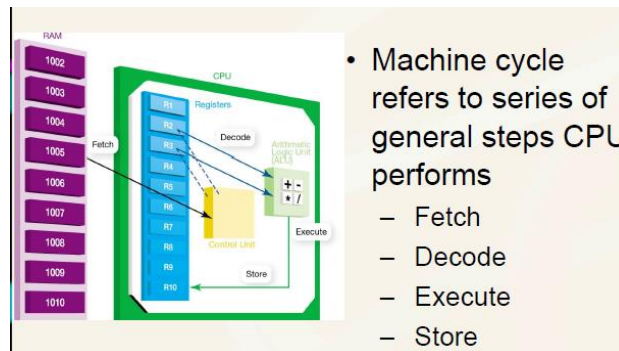
2. Lea - Course Documents – Class2_Under_The_Hood Bits and Bytes

2^3 8s place	2^2 4s place	2^1 2s place	2^0 1s place
1	0	1	1

ASCII CODE	REPRESENTS THIS SYMBOL	ASCII CODE	REPRESENTS THIS SYMBOL
01000001	A	01100001	a
01000010	B	01100010	b
01000011	C	01100011	c

DECIMAL NUMBER	BINARY VALUE	HEXADECIMAL VALUE
00	0000	00
01	0001	01
02	0010	02
03	0011	03
04	0100	04
05	0101	05
06	0110	06
07	0111	07
08	1000	08

CPU



Concepts

3. Lea - Course Documents – Class2_HowTheInternetWorks

All about how the Internet works

1. Packets explained (3:21)
<https://www.youtube.com/watch?v=Gfoc3Cxgnpk>
2. What is the Internet - Vint Cerf – History (3 :44)
<https://www.youtube.com/watch?v=Dxcc6ycZ73M>
3. Wires, Cables, WiFi (6:40)
<https://www.youtube.com/watch?v=ZhEf7e4kopM>
4. DNS (6:44)
<https://www.youtube.com/watch?v=5o8CwafCxnU>
5. How Search Works (5:12)
https://www.youtube.com/watch?v=LVV_93mBfSU

Group Work

- ❖ John Abbott College email
 - ❖ Microsoft 365 - outlook.office365.com
 - ❖ Send an email to one of the students in your meeting room with the question, “Which video about about how the Internet works was the most interesting to you and why”.
 - ❖ The subject line for the email will be “Class 2”.
 - ❖ Reply to any emails that you receive and add me as a “cc” to the reply email.

- ❖ Meeting Room groups in teams of 3

Location	Teams of 3			
Meeting Room 01	1	8	15	
Meeting Room 02	2	9	16	
Meeting Room 03	3	10	17	
Meeting Room 04	4	11	18	
Meeting Room 05	5	12	19	
Meeting Room 06	6	13	20	
Meeting Room 07	7	14	21	

Starts the meeting in the Meeting Room

Email
Qingjun.Bao@johnabbottcollege.net
Elias.Barrellet@johnabbottcollege.net
Mohamed.Boudribila@johnabbottcollege.net
Lisi.Cao@johnabbottcollege.net
Ashok.Chand@johnabbottcollege.net
Nicholas.Comeau@johnabbottcollege.net
Karina.Pereira@johnabbottcollege.net
Xiaoli.Feng@johnabbottcollege.net
Sophie.Hsu@johnabbottcollege.net
Xing.Huang@johnabbottcollege.net
Bo.Kim@johnabbottcollege.net
Sang.Kim@johnabbottcollege.net
Zhi.Li@johnabbottcollege.net
Zachary.Mcrae@johnabbottcollege.net
Michael.Pinsonneault@johnabbottcollege.net
Benjamin.Pye@johnabbottcollege.net
Will.Secord@johnabbottcollege.net
Mark.Sumoba@johnabbottcollege.net
Shixin.Tang@johnabbottcollege.net
Claudiu.Terenche@johnabbottcollege.net
Linlin.Xie@johnabbottcollege.net
cdutton@johnabbott.qc.ca

Concepts

4. Packet Tracing

The screenshot displays a Wireshark packet capture file named 'http.cap'. The main packet list shows 17 packets. The selected packet (No. 17) is a DNS Standard query response from 145.253.2.203 to 145.254.160.237. The packet details pane shows the Ethernet II, Internet Protocol Version 4, and Transmission Control Protocol layers. The packet bytes pane shows the raw data. A diagram titled 'TCP Session' illustrates the 3-way handshake between Computer A and Computer B, showing SYN, SYN-ACK, and ACK packets, followed by a FIN and FIN-ACK sequence.

No.	Time	Source	Destination	Protocol	Leng	Info
1	0.000000	145.254.160.237	65.208.228.223	TCP	62	3372 → 80 [SYN] Seq=0 Win=8760 Len=0 MSS=1460 SACK_PERM=1
2	0.911310	65.208.228.223	145.254.160.237	TCP	62	80 → 3372 [SYN, ACK] Seq=0 Ack=1 Win=5840 Len=0 MSS=1380 SACK_PERM=1
3	0.911310	145.254.160.237	65.208.228.223	TCP	54	3372 → 80 [ACK] Seq=1 Ack=1 Win=9660 Len=0
4	0.911310	145.254.160.237	65.208.228.223	HTTP	533	GET /download.html HTTP/1.1
5	1.472116	65.208.228.223	145.254.160.237	TCP	54	80 → 3372 [ACK] Seq=1 Ack=480 Win=6432 Len=0
6	1.682419	65.208.228.223	145.254.160.237	TCP	14...	80 → 3372 [ACK] Seq=1 Ack=480 Win=6432 Len=1380 [TCP segment of a reassembled PDU]
7	1.812606	145.254.160.237	65.208.228.223	TCP	54	3372 → 80 [ACK] Seq=480 Ack=1381 Win=9660 Len=0
8	1.812606	65.208.228.223	145.254.160.237	TCP	14...	80 → 3372 [ACK] Seq=1381 Ack=480 Win=6432 Len=1380 [TCP segment of a reassembled PDU]
9	2.012894	145.254.160.237	65.208.228.223	TCP	54	3372 → 80 [ACK] Seq=480 Ack=2761 Win=9660 Len=0
10	2.443513	65.208.228.223	145.254.160.237	TCP	14...	80 → 3372 [ACK] Seq=2761 Ack=480 Win=6432 Len=1380 [TCP segment of a reassembled PDU]
11	2.553672	65.208.228.223	145.254.160.237	TCP	14...	80 → 3372 [PSH, ACK] Seq=4141 Ack=480 Win=6432 Len=1380 [TCP segment of a reassembled PDU]
12	2.553672	145.254.160.237	65.208.228.223	TCP	54	3372 → 80 [ACK] Seq=480 Ack=5521 Win=9660 Len=0
13	2.553672	145.254.160.237	145.253.2.203	DNS	89	Standard query 0x0023 A pagead2.googlesyndication.com
14	2.633787	65.208.228.223	145.254.160.237	TCP	14...	80 → 3372 [ACK] Seq=5521 Ack=480 Win=6432 Len=1380 [TCP segment of a reassembled PDU]
15	2.814046	145.254.160.237	65.208.228.223	TCP	54	3372 → 80 [ACK] Seq=480 Ack=6901 Win=9660 Len=0
16	2.894161	65.208.228.223	145.254.160.237	TCP	14...	80 → 3372 [ACK] Seq=6901 Ack=480 Win=6432 Len=1380 [TCP segment of a reassembled PDU]
17	2.914190	145.253.2.203	145.254.160.237	DNS	188	Standard query response 0x0023 A pagead2.googlesyndication.com CNAME pagead2.googlesyndication.com CNAME pagead2.googlesyndication.com

Frame 17: 62 bytes on wire (496 bits), 62 bytes captured (496 bits) on interface 0
Ethernet II, Src: Xerox_00:00:00 (00:00:01:00:00:00), Dst: fe:ff:20:00:01:00 (fe:ff:20:00:01:00)
Internet Protocol Version 4, Src: 145.254.160.237, Dst: 65.208.228.223
Transmission Control Protocol, Src Port: 3372, Dst Port: 80, Seq: 0, Len: 0

Untitled - Windows Photo Viewer
File Print E-mail Burn Open

TCP Session

Computer A 3-way handshake Computer B

SYN SYN-ACK
ACK
FIN FIN-ACK

Networking Tutorial for Beginners - 03 - The packet trace
https://www.youtube.com/watch?v=BnJ5KVA_i1g

Reminder

- ❖ Review your MyAcronyms and re-submit your file, if needed, on Lea and Moodle
- ❖ Add your additional acronyms to the Class Glossary on Moodle, if not yet completed

Homework

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Room name 6118

Question 3: Do you have access to ***Beginning HTML & CSS*** e-book at the John Abbott library online?

3 of 3

Please answer the teacher's question.

Enter Answer Here

SUBMIT ANSWER