

# Final Exam

Open-Book & Open-Internet

No collaboration & discussion of any kind

[LINK](#)

(Exam and Submission)

You must submit a **short report** (PDF or WORD) with some brief explanation and **links** to your results (URLs).

## Question 1

a. (20 points total)

See class [recording 1](#) and [hints](#).

- Make and protect the URL: **http://oldtown.glendon.yorku.ca/~lastname/final/2915/dec16/** with a username and a password.
- You will set the **username** to be your **lastname** and **password** to be **your student number**. Tell me what they are in your report so that I may check your result.
- Your **.htpasswd** database must be kept at: /home/lastname/final/dec/.secure/.htpasswd

**Hint:** Below is your **.htaccess** file: (make some change to fit your settings).

```
AuthType Basic
```

```
AuthName "restricted area"
```

```
AuthUserFile /home/teaching/final/.secure/.htpasswd
```

```
Require valid-user
```

b. (20 points)

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- Start: <https://trinket.io/html/5673dddc59>
- End: <https://politicalrights2022-1223.trinket.io/sites/question8a-end>

Display your result at: <http://oldtown.glendon.yorku.ca/~lastname/final/2915/dec16/q1b.html>

**Hint:** Consider using **flex-wrap: wrap** and **border-radius** and the pseudo-element **:hover**.

## Question 2

(20 points)

Short-answered questions

- a. **Start:** <https://trinket.io/html/c44b7ce4be>  
<https://politicalrights2022-1223.trinket.io/sites/begin01>

**Code** to get a **random** 300x300 px image (with keywords: sunset water) from the web ( Web scraping):

```
<img src = "https://source.unsplash.com/300x300/?sunset,water" alt="">
```

**End:** <https://politicalrights2022-1223.trinket.io/sites/begin01-end>

Display your result at the URL:

<http://oldtown.glendon.yorku.ca/~lastname/final/2915/dec16/q2a.html>

**Hint:** Consider using **flex-wrap: wrap** and replacing “images not found” by the code to get random images from web with “unsplash”. .

b.

See class [recording2](#) (WORD TOC, SWAY, PDF) and [hints](#) (files).

- **Start:** [Word file](#)
- **End:** [PDF file](#)

Display your result as a file named **word-sway.pdf** at::

<http://oldtown.glendon.yorku.ca/~lastname/final/2915/dec16/word-sway.pdf>

**Hint:**

- ✓ The given WORD file **already** has a Table of Contents.
- ✓ Click on the PDF and see the links to the main WORD document
- ✓ Add links to the Table of Contents by modifying the [Word file](#) (Start). It is helpful to show the hidden paragraph break.

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Compare it to the desirable [PDF](#) file and **add** the few necessary additions to the WORD file. Your watermark should be your “student number”. For example, “1237656”.

**Question 3**

(20 points)

- **Start:** <https://trinket.io/html/547a1438e6>
- **End:** <https://monpianochantant.trinket.io/sites/gal01-4to1>

Display your result at: <http://oldtown.glendon.yorku.ca/~lastname/final/2915/dec16/q3.html>

Hint: The key to responsive gallery is this:

|  |                                   |   |
|--|-----------------------------------|---|
| ✓ <code>.responsive-image<br/>{max-width: 100%; }</code> | ✓ <code>.cell {width: %; }</code> | ✓ <code>.cell img { display:<br/>flex; }</code> |
|--|-----------------------------------|---|

**Question 4**

(20 points)

- a.**
- **Start:** <https://trinket.io/html/d4b602c075>
  - **End:** <https://monpianochantant.trinket.io/sites/simple01-life>

Display your result at:

<http://oldtown.glendon.yorku.ca/~lastname/final/2915/dec16/q4a.html>

**b.**

Zoom [link](#):

**Question 4 b**

(20 points)

**Code to embed an [mp4](#) video:**

```
<video playsinline autoplay muted loop >
  <source src="http://oldtown.glendon.yorku.ca/~teaching/2022/final/media/video1.mp4"
  type="video/mp4">
```

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</video>

See for example: <https://trinket.io/html/0fb74d2056>

<https://monpianochantant.trinket.io/sites/simple-life-final> (tempo, Imagine)

As music professor, we wish to slow down the piano performance at 90% tempo by computer algorithms:

- **Starting code** : <https://trinket.io/html/d4b602c075>
- **End:** <https://monpianochantant.trinket.io/sites/simple-life-final>

1. To speed up/slow down audio, use the "**bpm** or beats per minute" **effect** in Audacity.
  2. To speed up/slow down video, use "**fps** or frames per second" **filter** in Avidemux

- Audacity is an audio editor while Avidemux is a video editor
- We need to process audio and video tracks separately, and then put them back together to achieve perfect synchronization which is required in music education.

We can download and install Avidemux and Audacity at your local device at: <http://oldtown.glendon.yorku.ca/~teaching/binary/>

- You can **also** use [Audacity](#) and [Avidemux](#) on-line as chrome extension plugins.

Given the video at: [http://oldtown.glendon.yorku.ca/~teaching/2021/videos/imagine\\_2020.mp4](http://oldtown.glendon.yorku.ca/~teaching/2021/videos/imagine_2020.mp4)

that plays “Imagine” by Lennon at tempo.

- Create a new video, named slow.mp4, which plays at 90% tempo of the video above. Here is a screen capture of [the output video format](#) suitable for streaming.
- Display your slow video ([format mp4](#)) at:  
**<http://oldtown.glendon.yorku.ca/~lastname/final/2915/dec16/video/lennon/slow90.mp4>**
- Display also your slower music as a web page at:  
**<http://oldtown.glendon.yorku.ca/~lastname/final/2915/dec16/video/lennon/imagine.html>**

Your web page should look and behave just like this web site below:

<https://monpianochantant.trinket.io/sites/simple-life-final>

except that your embedded video is **slow60.mp4** which plays at 90% tempo.

**THE END**

