

Assignments > Assignment #7

Assignment #7

Hide Assignment Information

Instructions

COMP1047-30
Computer Concepts for End-Users
School of Computer Science - University of Windsor

Assignment #7: Digital Sound/Graphics Software (10%)

Complete the two-part assignment based on the instructions provided below:

Part A: (20 marks)

This part of the assignment will give you an opportunity to explore a few different ways to save sound files and investigate their file sizes.

Download and install the VLC program from videolan.org

- Find the features of the VLC program described on their web site. Describe what the program is used for, what is fast hardware decoding, and list two video formats, and list three audio formats. (10 marks)

Using the program:

- Download the four .wav example files from Brightspace to your computer.
- Convert each example using the VLC feature (File → Convert) to the following formats:
 - .mp3
 - .ogg
 - .m4v (MAC) or MP4 (PC)
- Create a chart with the converted file sizes (see below). (5 marks)
- Describe your findings. (5 marks)

	.wav	.mp3	.ogg	.mp4
Example 1	1.1 MB			
Example 2	2.1 MB			
Example 3	Etc.			
Example 4				

PART B: Digital Graphics Using GIMP software (30 marks)

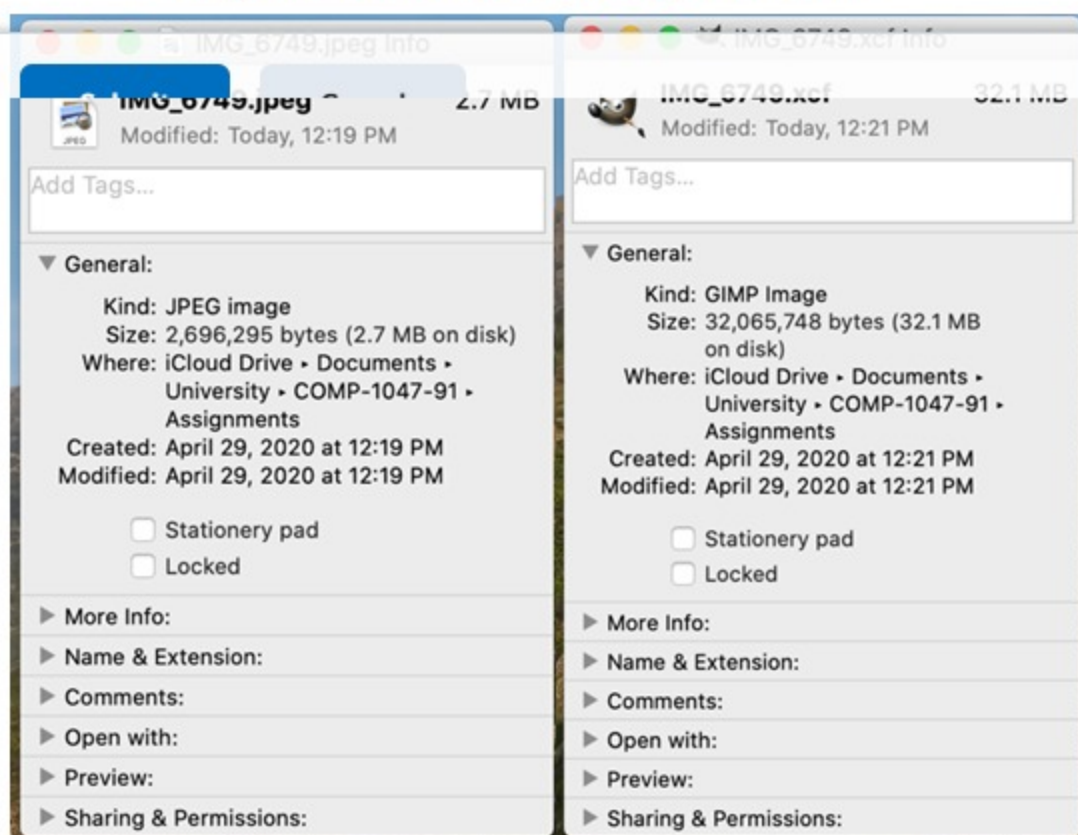
This part of the assignment will give you an opportunity to explore the many ways to save images and how they are used.

Download and install the GIMP program from gimp.org

- List and describe the five (5) features of the GIMP program found on their web site. (10 marks)
- List, describe, and state the use of the following file formats. (10 marks)
 - .bmp
 - .gif
 - .jpg
 - .png
 - .tiff

Using the program: (10 marks)

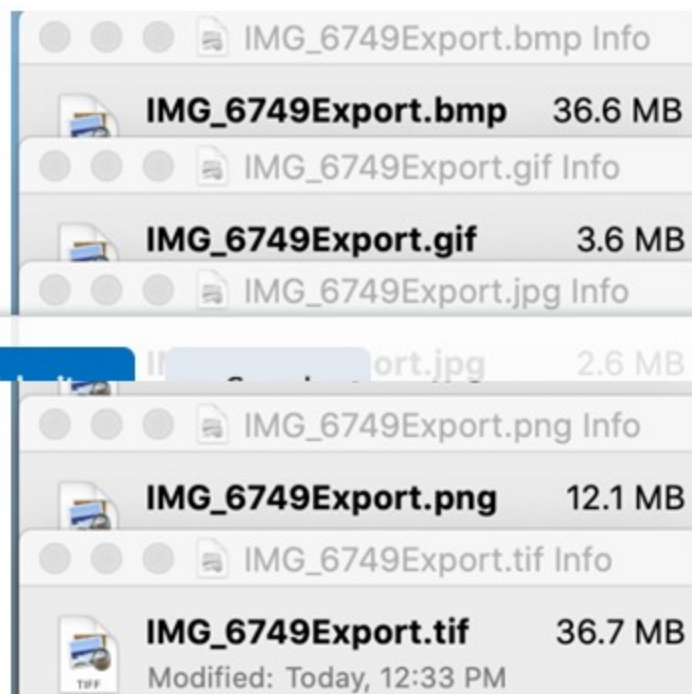
- Find an image on your computer that has been taken with your smartphone.
 - Copy this image to a folder for manipulation (so you don't lose your original).
 - Be sure that your computer has copied an exact replication and hasn't changed it from its original file type.
 - Select this file and check its file size. If using Microsoft Windows, right-click on the file and choose File Properties. If using MAC OSX select this file and hold Control and click the file and choose Get Info.
 - Most likely this image will be saved over 1 Megabyte (if not more).
 - Next, open this file (the original) using the GIMP program and save it as the default GIMP file format of (.xcf).
 - Compare and note the file sizes using a screen shot.



- Now save the GIMP file in the following formats using Export As ->Select File Type.

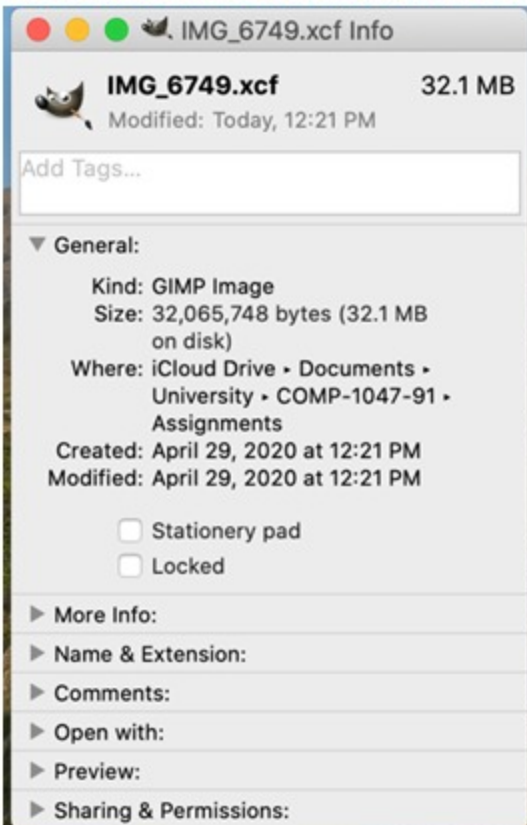
- .bmp
- .gif
- .jpg
- .png
- .tiff

- Note the different file sizes. (SEE BELOW)



- Using the same process Export As, try to reduce the file size so that the file size is less than 1 Megabyte. You will have to explore the features of the program GIMP.

NOTE: Some file formats show little difference in file size. (SAMPLE BELOW)



- This program may be useful for image file size reduction when creating PowerPoint slide shows or creating Web pages. Large images are not recommended to be embedded into PowerPoint slides or may take too long to load on Web pages.



Create a word-processing document answering the questions above.

Save the file as: **Assignment7-StudentFirstNameStudentLastName.docx**

Send your results via the Assignment #7 submission in Brightspace.

One mark deduction for each of the following:

- Improper filename
- Inconsistent margin settings
- Poorly laid out answers/difficult to read
- Spelling and/or grammar errors
- Missing your name and/or your student number

General:

- Assignments must be done on your own Microsoft account/licensed product, or you will receive zero marks.
- Assignments must be submitted in the proper file format, or you will receive zero marks.
- Assignments are not to be emailed to the Professor or Teaching Assistants. You get one submission and one submission only in Brightspace. Assignments not found in Brightspace will receive a mark of zero.

Assignment #7 Marking Scheme (10%, 50 marks)

PART A: Digital Sound

- Describe the VLC program. (10 marks)
- Converting of .wav files. (10 marks)

PART B: Digital Images

- List and describe the five (5) features of the Gimp program. (10 marks)
- List, describe, and state the use of the file formats. (10 marks)
- Show original file sizes. File size comparisons. (10 marks)

Assignment #7 is due by the end of the ninth week of the course.

For this assignment you will attach a **Microsoft Word document** type file only.

Due on Mar 12, 2025 11:00 PM

Access restricted before availability starts.

Available until Mar 14, 2025 11:59 PM. Access restricted after availability ends.

Attachments

 [Example1MB.wav](#) (1.02 MB)

 [Example2MB.wav](#) (2.05 MB)

 [Example5MB.wav](#) (4.98 MB)

 [Example10MB.wav](#) (9.92 MB)

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Allowed File Extensions

docx

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