



DEPARTMENT OF EDUCATION SCHOOLS DIVISION OF NEGROS ORIENTAL **REGION VII**



Kagawasan Ave., Daro, Dumaguete City, Negros Oriental

EMPOWERMENT TECHNOLOGIES

Quarter 3 – Module 6 Imaging and Design for Online Environment





GOVERNMENT PROPERTY E

Trends, Networks, and Critical Thinking in the 21st Century Alternative Delivery Mode Quarter 3 – Module 6: Imaging and Design for Online Environment First Edition, 2020

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EMPOWERMENT TECHNOLOGIES

Quarter 3 – Module 6: Imaging and Design for Online Environment



Introductory Message

For the facilitator:

Welcome to the <u>Empowerment Technologies</u> Alternative Delivery Mode (ADM) Module on <u>Imaging and Design for Online Environment!</u>

This module was collaboratively designed, developed and reviewed by educators both from public and private institutions to assist you, the teacher or facilitator in helping the learners meet the standards set by the K to 12 Curriculum while overcoming their personal, social, and economic constraints in schooling.

This learning resource hopes to engage the learners into guided and independent learning activities at their own pace and time. Furthermore, this also aims to help learners acquire the needed 21st century skills while taking into consideration their needs and circumstances.

In addition to the material in the main text, you will also see this box in the body of the module:



Notes to the Teacher

This contains helpful tips or strategies that will help you in guiding the learners.

As a facilitator, you are expected to orient the learners on how to use this module. You also need to keep track of the learners' progress while allowing them to manage their own learning. Furthermore, you are expected to encourage and assist the learners as they do the tasks included in the module.

For the learner:

Welcome to <u>the Empowerment Technologies</u> Alternative Delivery Mode (ADM) Module on Imaging and Design for Online Environment!

This module was designed to provide you with fun and meaningful opportunities for guided and independent learning at your own pace and time. You will be enabled to process the contents of the learning resource while being an active learner.

This module has the following parts and corresponding icons:

6	What I Need to Know	This will give you an idea of the skills or competencies you are expected to learn in the module.
	What I Know	This part includes an activity that aims to check what you already know about the lesson to take. If you get all the answers correct (100%), you may decide to skip this module.
(2) (3)	What's In	This is a brief drill or review to help you link the current lesson with the previous one.
	What's New	In this portion, the new lesson will be introduced to you in various ways; a story, a song, a poem, a problem opener, an activity or a situation.
2	What is It	This section provides a brief discussion of the lesson. This aims to help you discover and understand new concepts and skills.
BC	What's More	This comprises activities for independent practice to solidify your understanding and skills of the topic. You may check the answers to the exercises using the Answer Key at the end of the module.
	What I Have Learned	This includes questions or blank sentence/paragraph to be filled in to process what you learned from the lesson.
200	What I Can Do	This section provides an activity which will help you transfer your new knowledge or skill into real life situations or concerns.
	Assessment	This is a task which aims to evaluate your level of mastery in achieving the learning competency.

O	Additional Activities	In this portion, another activity will be given to you to enrich your knowledge or skill of the lesson learned.
Q A	Answer Key	This contains answers to all activities in the module.

At the end of this module you will also find:

References

This is a list of all sources used in developing this module.

The following are some reminders in using this module:

- 1. Use the module with care. Do not put unnecessary mark/s on any part of the module. Use a separate sheet of paper in answering the exercises.
- 2. Don't forget to answer *What I Know* before moving on to the other activities included in the module.
- 3. Read the instruction carefully before doing each task.
- 4. Observe honesty and integrity in doing the tasks and checking your answers.
- 5. Finish the task at hand before proceeding to the next.
- 6. Return this module to your teacher/facilitator once you are through with it.

If you encounter any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator. Always bear in mind that you are not alone.

We hope that through this material, you will experience meaningful learning and gain deep understanding of the relevant competencies. You can do it



This module was designed and written with you in mind. It is here to help you master the context of Empowerment Technologies. It contains varied activities that can help you as a Senior High School student to succeed in environments that require the use of computer and the Internet.

The module contains lessons in Imaging and Design for Online Environment which allows students to understand the principles and techniques in image manipulation.

Happy learning!

Content Standard:

➤ How to manipulate text, graphics, and images to create ICT content intended for an online environment

Performance Standard:

At the end of the 2-week period independently apply the techniques of image manipulation and graphic design to create original or derivative ICT content from existing images, text and graphic elements for use in specific professional tracks.

These may be in the form of, but not limited to:

- 1. Team/ athlete/ league recruitment posters (Sports)
- 2. Logo or crest for a community, school organization or barkada (Arts)
- 3. Labeling and manual of operation for tools and equipment (Tech-Voc)
- 4. Presentation of cafeteria patronage data (Business/ Academic)

MOST ESSENTIAL LEARNING COMPETENCIES:

- evaluate existing websites and online resources based on the principles of layout, graphic, and visual message design (CS_ICT11/12-ICTPT-Ie-f- 6)
- ➤ use image manipulation techniques on existing images to change or enhance their current state to communicate a message for a specific purpose (CS_ICT11/12-ICTPT-Ie-f- 7)
- > create an original or derivative ICT content to effectively communicate a visual message in an online environment related to specific professional tracks... (CS_ICT11/12-ICTPT-Ie-f- 8)

After going through this module, you are expected to:

- K: understand the basic principles of graphics and layout
- S: create original ICT content
- A: appreciate the use of an image editor for image manipulation and graphics design



Direction: Write the letter of the correct answer in your notebook. 1. It makes complex data become more visually appealing to the average user. a. Tables c. Infographics b. Piktochart d. Slideshows 2. The elements should not be cluttered and not compete with each other. a. Proximity and harmony c. Asymmetrical b. Emphasis c. Consistency 3. There should be one point of interest in a page. c. Color and shape a. Symmetrical b. Image d. Emphasis 4. It is a web-based infographic application which allows users without intensive experience as graphic designers to easily create infographics and visuals using themed templates. a. Adobe Photoshop c. Piktochart b. Photobucket d. PhotoScape 5. It allows you to insert lines, shapes, icons, and even photos. a. Graphics c. Text b. Background d. Upload 6. It allows you to insert text to your infographic with the option to add text frames a. Tools c. Uploads b. Text d. Graphics 7. It allows you to modify the color scheme of your infographic. a. Styles c. Graphics b. Tools d. Uploads 8. It is a raster graphics editor used for editing images, designing websites, editing videos, and creating 3D artwork. a. Photobucket c. Piktochart b. Adobe Photoshop d. PhotoScape 9. It is an image hosting site in the Internet. a. Adobe Photoshop c. Photobucket b. PhotoScape d. Piktochart

10. Use this to select parts of your images that you want to edit or enhance
a. Drawing tool
b. Selection tool
c. Typing tool
d. Painting tool



What are the things to be considered in creating an effective presentation? How can you get the attention of your audience? Is an effective presentation creates a good impression to your audience? Good graphic design and good layout also make the presentation effective. Therefore, you need to learn the skills in graphics designing and layouting.



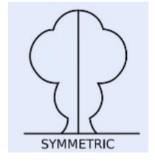
Graphic design is a sought-after skill that can help produce high-end designs to promote brands at a national and international scale. Adding graphics to your design can help you showcase your creative skills and make a good impression on your clients. It equips students with the necessary skills to apply for a position in the fields of advertising or marketing across all business sectors.



Layout is the process of planning and arranging graphics or text in a page or book. A good layout should have a balanced make up and alignment of elements.

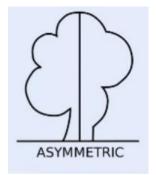
Basic Principles of Graphics and Layout

1. Symmetrical: There should be equal weights or elements on both sides of the page.





2. Asymmetrical: It may be asymmetrical when there is an artistic and different intensity on one side of the page.





3. Text: It should be: • Legible • Has appropriate font face • Left justified, right justified, or centered • The flow of text should be easy to read.









4. Image: The image should be: • Proportionate • Sharp in color • With high resolution • With appropriate captions.



5. Proximity and Harmony: The elements should be close together and scattered and arranged apart from each other. Elements should not be cluttered and not compete with each other.



6. Consistency: There should be uniformity of theme on each page.



7. Color and Shape: Use color to create interest by providing variety in the design (color contrast and shapes).



8. Emphasis: There should be one point of interest in a page. The elements to be emphasized should have a different size, color, shape, or background.



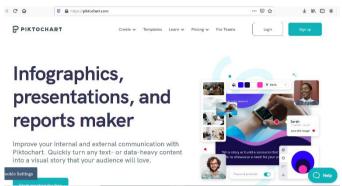
Infographics

Information graphics or infographics are used to represent information, statistical data, or knowledge in a graphical manner usually done in a creative way to attract the viewer's attention. It makes complex data more visually appealing to the viewers.

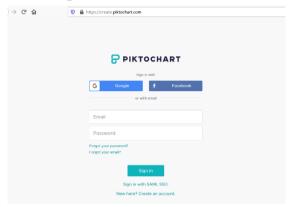
Creating Infographics Using Piktochart

Piktochart is a web-based infographic application which allows users without intensive experience as graphic designers to easily create infographics and visuals using themed templates. Let us create an infographics using piktochart.com

1. In your browser, go to Piktochart.com and click sign up found at the upper right corner of the page to create your Piktochart account.



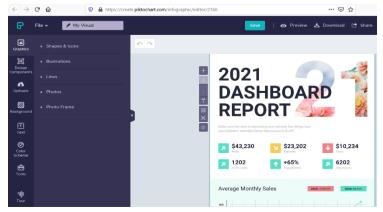
2. Fill-up the information on the Sign Up page. You can use to auto-signup using your Google+ or Facebook account.



3. Once you have created your account and logged in, click infographics then select a template.



4. The Piktochart editor will open (may take a while to load depending on your internet connection). You can now edit the template.

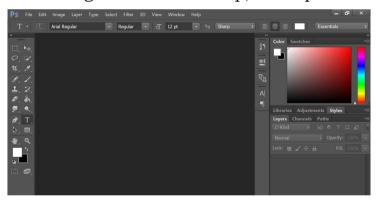


- 5. While editing, you can use the various tools on the left side of the page.
 - a. Graphics allows you to insert lines, shapes, icons, and even photos
 - b. Uploads allows you to upload images for your infographics
 - c. Background changes the background of a selected block
 - d. Text allows you to insert text to your infographic with the option to add text frames
 - e. Styles allows you to modify the color scheme of your infographic
 - f. Tools allows you to create charts, maps, and videos
- 6. To save your work, click on **Save** on the top right of the page. To save it in your computer, click on **Download**. In the **Download** options, select the medium-sized and the PNG file type.

Creating and Manipulating Images Using Adobe Photoshop

Adobe Photoshop is a raster graphics editor, an imaging and graphic design software used by thousands of people in many different roles across the world. Not only is it for photos but you can use Photoshop for designing websites, editing videos, and creating 3D artwork.

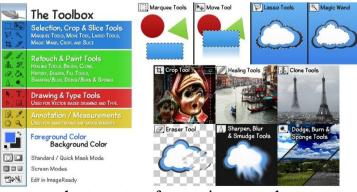
As a beginner in Photoshop, it's important to understand the anatomy of



the interface before you get started. When you open the program, you'll see the main menu along the top, like other programs. Along the left side, you'll see a sidebar that shows the main tools. On the right side, you'll see the color tool and the layers tool. Photoshop files have default file extension as

.PSD, which stands for "PhotoShop Document".

Photoshop Toolbox



The toolbox in the left sidebar will be your best friend. The tools are organized into groups based on what they do:

• The top section features selection, cropping, and slicing tools. Use these to

select parts of your images that you want to edit or enhance, or crop and slice out parts you want to exclude.

• The second section features retouch and paint tools. Use these to get rid of unwanted spots on product items, draw on your image, erase

- certain parts, color them in, or enhance them by sharpening or blurring.
- The third section is drawing and typing tools. Use these to write text over your image or draw images onto them by hand using the pen tool. We'll go over the pen tool later.

Image Adjustments: Grayscale (Black and White)

Color photographs can easily be turned into black and white. Changing from color to black and white is called changing modes.

- 1. Open the photo that you want to edit.
- 2. Go to the Image Menu > Mode > Grayscale
- 3. The original Red-Green-Blue (RGB) image is now black and white.
- 4. Do a SAVE AS

ALTERNATE METHOD:

- 1. Reopen the file.
- 2. Make sure you are opening the unchanged version of this photo.
- 3. Go to Image Menu > Adjustments > Hue and Saturation.
- 4. Slide the triangle all the way to the left (-100) and you de-saturate (or remove) all the color. This image remains a color (RGB) photo. It simply lacks color. As far as the computer is concerned,

it is a color (RGB) image that looks black and white. The mode is still RGB.



Original image



Grayscale image

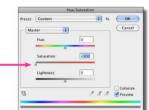
Inserting, Uploading, and Sharing Photos over the Internet

In creating a website, you usually upload photos. In this case, you need an image host. Image hosts are websites specializing in storing photographs. These photographs can easily be embedded to a web page or website.

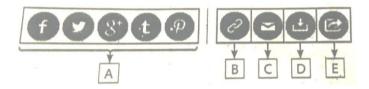
There are plenty of image hosting sites in the internet, and Photobucket is one of them. Feel free to check out other free image hosting sites over the internet.

1. Sign up for a Photobucket account in photobucket.com. You may use your Google+ or Facebook account to automatically sign up.





- 2. Once your account is set up and you are ready logged in, click the **Start Uploading** button.
- 3. A new page will load allowing you to drag and drop photos or to choose them manually or the entire folder to upload. Select a folder, add a password(optional), then feel free to upload any photos you have right then.
- 4. Once selected, a progress bar will appear indicating that the image is uploading. This may take a moment and will depend on your internet connection.
- 5. Once you are done you will see these indicators:
 - a. View Uploads views photos you just uploaded which also grants you options to share and edit them individually
 - b. Share Album shares everything you just uploaded plus the other contents of your specified folder
 - c. Edit Photos uses Photobucket's photo editing tools to manipulate your image
- 6. Let us assume you will share a photo individually. To do this, click on View Uploads then once the page uploads, click the photo you want to share.
- 7. On the top of the image, you will see the following options:



- A shares your photo directly to social media and blogging platforms: Facebook, Twitter, Google+, Tumblr, and Pinterest, respectively
- B gives you a variety of link codes for HTML, Forums, Emails, Instant Messaging, and a direct link
- C shares your image via email
- D allows you to download your image
- E shares your image to social media sites with the option to add a custom message
- 8. You may choose to share your photo to your friends on Facebook. If you are done sharing, you may now log off and close the browser.

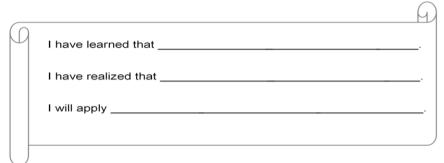


- 1. Visit three websites. What makes their site design work?
- 2. Research Photobucket and two more free image hosting sites and check out the limitations of the free account. What is the best hosting site for you and why?
- 3. What is the limitation of Adobe Photoshop compared to other image editors?



What I Have Learned

Instruction: Make a journal to manifest your understanding about the topic. You can start by following the format below. Write it in your notebook.





What I Can Do

- Option 1: Using any image editor, edit any picture of yours. Indicate the original picture and the edited picture. Print your output and submit it to your teacher.
- Option 2: Using Piktochart, create an infographic promoting "Think before you click". Upload your infographic in Photobucket. Share your infographic with your teacher.

Rubric

CATEGORY	4	3	2	1
Required Elements	The infographic includes all required elements as well as additional information.	All required elements are included on the infographic.	All but 1 of the required elements are included on the infographics.	Several required elements were missing.

Graphics - Relevance	related to the	All graphics are related to the topic and most make it easier to understand.	All graphics relate to the topic and some make it easier to understand.	I
Layout and design	The infographic is exceptionally attractive in terms of design, layout, and neatness.	The infographic is attractive in terms of design, layout, and neatness.	is acceptably	The infographic is distractingly messy or very poorly designed. It is not attractive.



Assessment

I. Match Column A with Column B. Read each item carefully and use your notebook to write your answers.

Answers	A	В	
1.	It allows you to modify the color scheme of your infographic.	a. Photoshop b. Text	
2.	It is a web-based infographic application which allows users without intensive experience as graphic designers to easily create infographics and visuals using themed templates.	c. Selection tool d. Emphasis e. Graphics f. Harmony g. Piktochart	
3.	Shares everything you just uploaded plus the other contents of your specified folder.	h. Photobucket i. symmetrical j. Style	
4.	It is one of the image hosting sites in the Internet.	k. Infographics lpsd	
5.	The file extension of a photoshop document.	m. Tools n. Share album	
6.	Allows you to create charts, maps, and videos	o. Retouch tool	
7.	It allows you to insert lines, shapes, icons, and even photos.		
8.	It makes complex data become more visually appealing to the average user.		

_	TT .1	
9.	Use these to get rid of unwanted	
	spots on product items, draw on	
	your image, erase certain parts,	
	color them in, or enhance them by sharpening or blurring.	
10	It is a raster graphics editor used	
10.	for editing images, designing	
	websites, editing videos, and	
	creating 3D artwork.	
11.		
	interest in a page.	
12.	Use this to select parts of your	
	images that you want to edit or	
	enhance	
1.0	T. 11	
13.	It allows you to insert text to your	
	infographic with the option to add	
	text frames.	
14.	There should be equal weights or	
	elements on both sides of the	
	page.	
15.	The elements should not be	
	cluttered and do not compete with	
	each other.	



Additional Activities

Give sample pictures that follow the 8 principles of design and layout. Print and submit your output to your teacher.



Answer Key

	1.31
	i. ₽I
	13.6
	5.21
	b.11
d.01	p.01
o .6	o .6
d .8	8. k
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What I Kno	Assessment

1. c 2. s 2. d 4. c 5. a 6. b 7. a 8. b 9. c 10.b

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