11

SENIOR HIGH SCHOOL

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

ALTERNATIVE DELIVERY MODE
ADM

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Trends, Networks, and Critical Thinking in the 21st Century
Alternative Delivery Mode
Quarter 3 – Module 6: Imaging and Design for Online Environment
Second Edition, 2021

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Introductory Message

This Self-Learning Module (SLM) is prepared so that you, our dear learners, can continue your studies and learn while at home. Activities, questions, directions, exercises, and discussions are carefully stated for you to understand each lesson.

Each SLM is composed of different parts. Each part shall guide you step-by-step as you discover and understand the lesson prepared for you.

Pre-tests are provided to measure your prior knowledge on lessons in each SLM. This will tell you if you need to proceed on completing this module or if you need to ask your facilitator or your teacher's assistance for better understanding of the lesson. At the end of each module, you need to answer the post-test to self-check your learning. Answer keys are provided for each activity and test. We trust that you will be honest in using these.

In addition to the material in the main text, Notes to the Teacher are also provided to our facilitators and parents for strategies and reminders on how they can best help you on your home-based learning.

Please use this module with care. Do not put unnecessary marks on any part of this SLM. Use a separate sheet of paper in answering the exercises and tests. And read the instructions carefully before performing each task.

If you have any questions in using this SLM or any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator.

Thank you

What I Need to Know

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

What I Know

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
   b. Piktochart
   c. Infographics
   d. Slideshows

2. The elements should not be cluttered and not compete with each other.
   a. Proximity and harmony
   b. Emphasis
   c. Asymmetrical
   c. Consistency

3. There should be one point of interest in a page.
   a. Symmetrical
   b. Image
   c. Color and shape
   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
   b. Photobucket
   c. Piktochart
   d. PhotoScape

5. It allows you to insert lines, shapes, icons, and even photos.
   a. Graphics
   b. Background
   c. Text
   d. Upload

6. It allows you to insert text to your infographic with the option to add text frames
   a. Tools
   b. Text
   c. Uploads
   d. Graphics

7. It allows you to modify the color scheme of your infographic.
   a. Styles
   b. Tools
   c. Graphics
   d. Uploads

8. It is a raster graphics editor used for editing images, designing websites, editing videos, and creating 3D artwork.
   a. Photobucket
   b. Adobe Photoshop
   c. Piktochart
   d. PhotoScape

9. It is an image hosting site in the Internet.
   a. Adobe Photoshop
   b. PhotoScape
   c. Photobucket
   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's In

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.

What's New

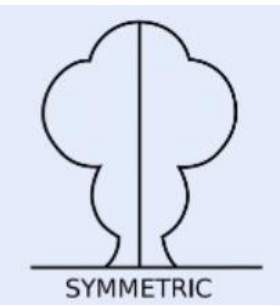
Graphic design is a sought-after skill that can help produce high-end designs to promote brands at a national and international scale. Adding graphics to your design can help you showcase your creative skills and make a good impression on your clients. It equips students with the necessary skills to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

What is It

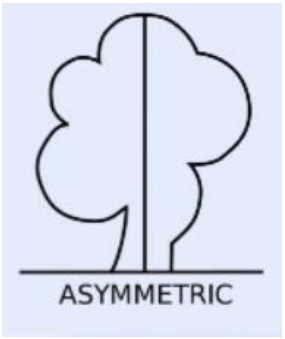
Layout is the process of planning and arranging graphics or text in a page or book. A good layout should have a balanced make up and alignment of elements.

Basic Principles of Graphics and Layout

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



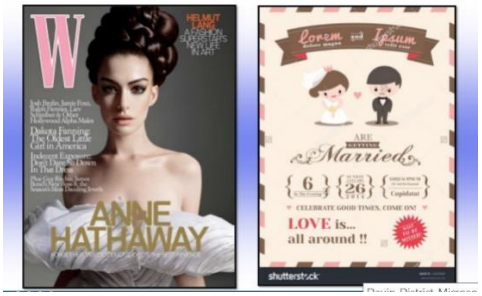
2. Asymmetrical: It may be asymmetrical when there is an artistic and different intensity on one side of the page.



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.

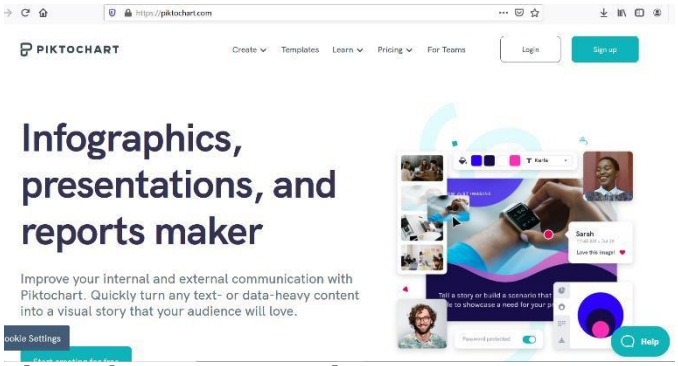
Infographics

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.

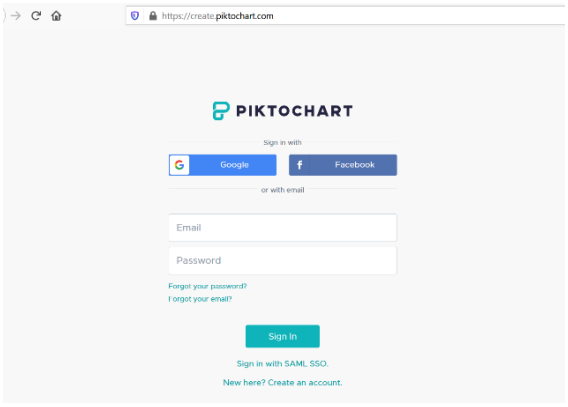
Creating Infographics Using Piktochart

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

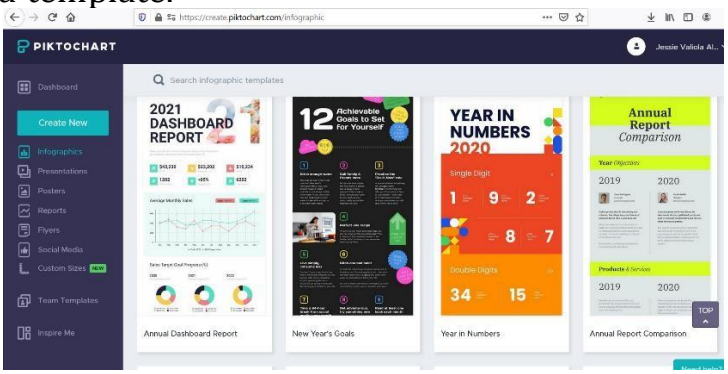
1. In your browser, go to Piktochart.com and click sign up found at the upper right corner of the page to create your Piktochart account.



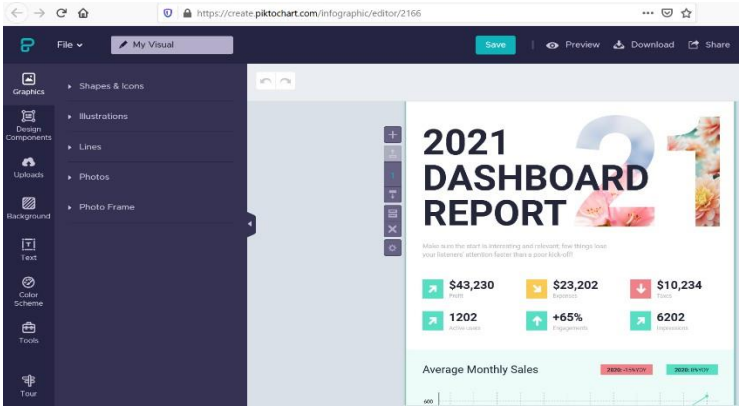
2. Fill-up the information on the Sign Up page. You can use to auto-signup using your Google+ or Facebook account.



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.

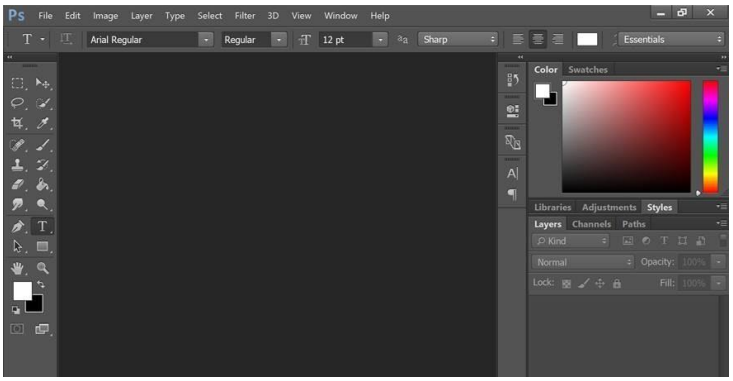
   a. Graphics – allows you to insert lines, shapes, icons, and even photos
   b. Uploads – allows you to upload images for your infographics
   c. Background – changes the background of a selected block
   d. Text – allows you to insert text to your infographic with the option to add text frames
   e. 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.

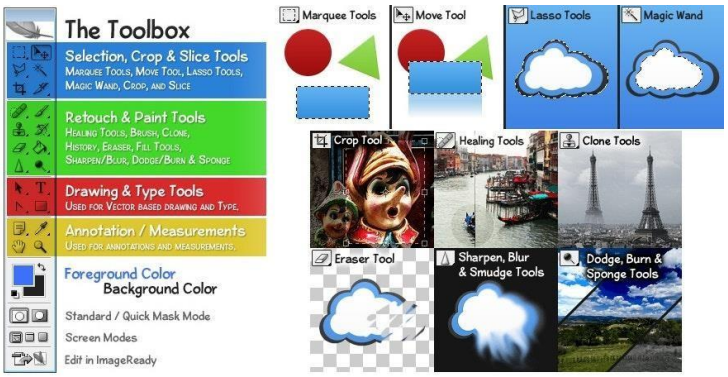
Creating and Manipulating Images Using Adobe Photoshop

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, likeother 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 bestfriend. The tools are organized into groups based on whatthey do:

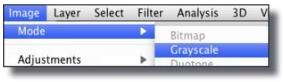
- The top section features selection, cropping, and slicing tools. Use these to to edit or enhance, or cropand slice out parts you want to exclude.
- The second section features retouch and paint tools. Use these to get rid of unwanted spots on product items, draw on your image, erase

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)

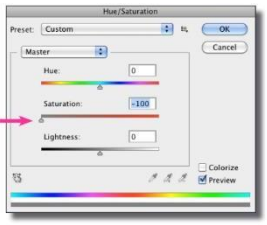
Color photographs can easily be turned into black and white. Changing from color to black and white is called changing modes.



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:

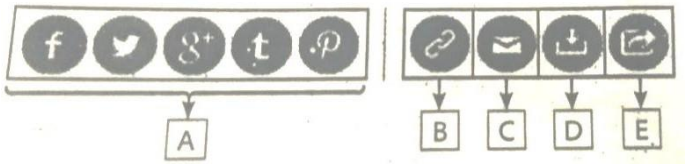
   a. View Uploads – views photos you just uploaded which also grants you options to share and edit them individually

   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.

What's More

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 besthosting 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.

I have learned that _____.

I have realized that _____.

I will apply _____.

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	All graphics are related to the topic and make it easier to understand.	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.	Graphics do not relate to the topic.
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.	The infographic is acceptably attractive though it may be a bit messy.	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	B
_____1.	It allows you to modify the color scheme of your infographic.	a. Photoshop b. Text c. Selection tool d. Emphasis e. Graphics f. Harmony g. Piktochart h. Photobucket i. symmetrical j. Style k. Infographics l. .psd m. Tools n. Share album o. Retouch tool
_____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.	
_____3.	Shares everything you just uploaded plus the other contents of your specified folder.	
_____4.	It is one of the image hosting sites in the Internet.	
_____5.	The file extension of a photoshop document.	
_____6.	Allows you to create charts, maps, and videos	
_____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.	

_____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 for editing images, designing websites, editing videos, and creating 3D artwork.	
_____11.	There should be one point of interest in a page.	
_____12.	Use this to select parts of your images that you want to edit or enhance	
_____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 becluttered 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

What I Know

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

Assessment

1. j
2. g
3. n
4. h
5. l
6. m
7. e
8. k
9. o
10. a
11. d
12. c
13. b
14. i
15. f

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