COMP 1017

Photoshop Tutorial

Over the past several weeks, we've been using wireframes in our development process.

A wireframe is a *visual mock-up* for what our final website might look like.

City of Edmonton

Activities for Winter 2021/2022
SUBJECT TO WEATHER

Winter Festivals

Lorem ipsum dolor, sit amet, consectetur adipisicing elit. Vel dicta est nesciunt? Doloremque, sed minima eum, deserunt blanditiis quo? Commodi ipsa rerum doloribus iste voluptates porro quidem at cumque dignissimos?

So, how do we go about creating, editing, and measuring exact pixel lengths in a wireframe?

Photoshop

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Before we get into Photoshop let's learn a bit about the best file formats for our images and logos.

File Formats and optimizing for web.

We can save images as multiple different file formats, but what is best file formats the web? When working with imagery for the web, we want to make sure making sure our images are **small** and **optimized** so our websites load quickly.

File Formats and optimizing for web.

GIF: Are used for saving vector art/icons/logos. When gifs are saved they use lossless compression which keeps the quality of the image and can store up to **256 colours**. They can support a transparent background.

JPEG: One of the most common file formats for saving web images. Use lossy compression which reduces the file size with little loss in image quality. Perfect for photographs and images when you don't need a transparent background.

PNG: Supports background transparency from opaque to completely transparent.

❖ **PNG24:** Uses 24-bit colour, and preserves the quality of image when saved use lossless compression. PNG images tend to be a larger file format than jpgs.

❖ **PNG-8:** Uses 8-bit colour and functions a lot like the gif file format, however the png-8 can compress images 10% - 30% smaller than a gif. Not supported by all browsers.

The best way to figure out how to use Photoshop for web design purposes is to dive in and do it.

Ok, lets fire up photoshop and get after it!

The following slides will be for reference purposes.

The basics tools you need

Selection Tool (V) - Allows you select different components of your Photoshop document and move them around.

Crop Tool (C) - Allows you to crop images, icons, etc either using a fluid, fixed ratio or a fixed size.

Zoom Tool (Z) - Zoom in and out of your document.

Keyboard Shortcuts:
Zoom in: CTRL/CMD (+)
Zoom Out: CTRL/CMD (-)

Marquee Tool (M)

- ❖ Allows you select rectangles, ellipses and 1-pixel rows and columns.
- ❖ The marquee can be create different shapes using a fluid, fixed ratio, or a fixed sized.

Eyedropper Tool (I) - Allows you to sample colours from an image.

Ruler Tool (I) - Allows you to measure the distance between elements.
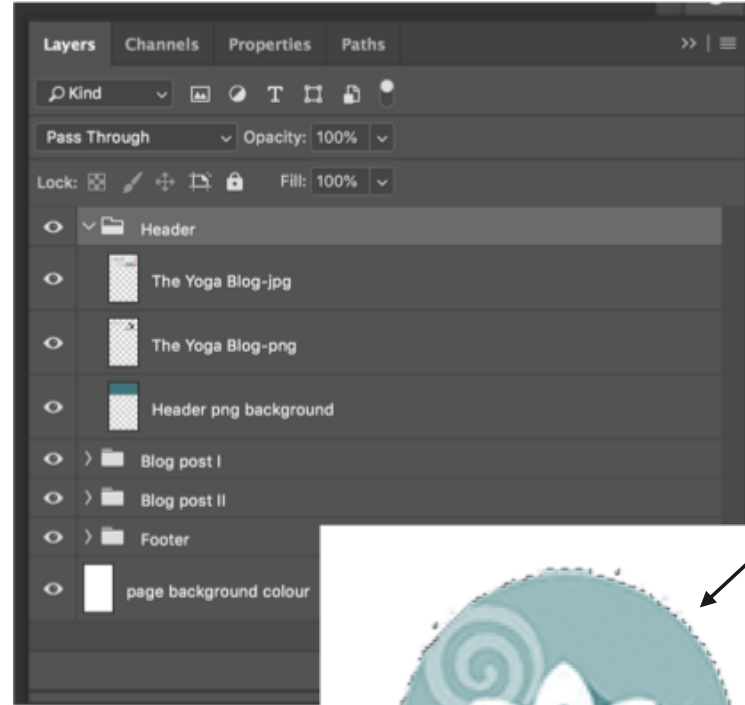
Layers Panel

Photoshop documents are created by using multiple layers. You can see the different layers by turning them on and off using the eye icon. Layers can be directly selected.

Keyboard Shortcut:
CTRL/CMD + click (on the layer thumbnail)
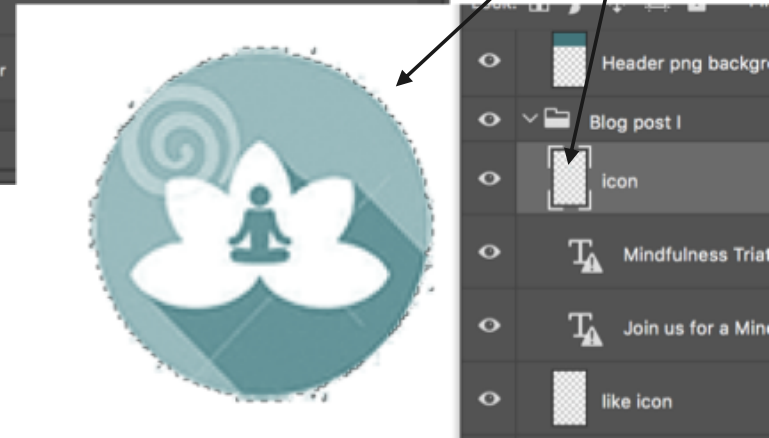*You'll see the marching ants!!*

Layers Panel

Image selection

Saving layers in new documents and new layers

Any layer in your PS document can be saved in a new document or a new layer. This might make it easier when you are cropping and saving your images.

Saving in a new document:

1. Select All components of the layer (CTRL/CMD + A) + Copy (CTRL/CMD + C)
2. Open a new PS document (CTRL/CMD + N)
3. Paste into new document (CTRL /CMD + V)

Saving in a new layer / duplicate layer:

1. Select All components of the layer (CTRL/CMD + A) + Copy (CTRL/CMD + C)
2. Create new layer (CTRL/CMD + SHIFT + N)
3. Paste into new Layer (CTRL /CMD + V)
4. Or you can just duplicate that layer (CTRL/CMD + J)

Rulers, Guidelines & Grids

The rulers, guides and grids are extremely helpful to determine the spacing between elements.
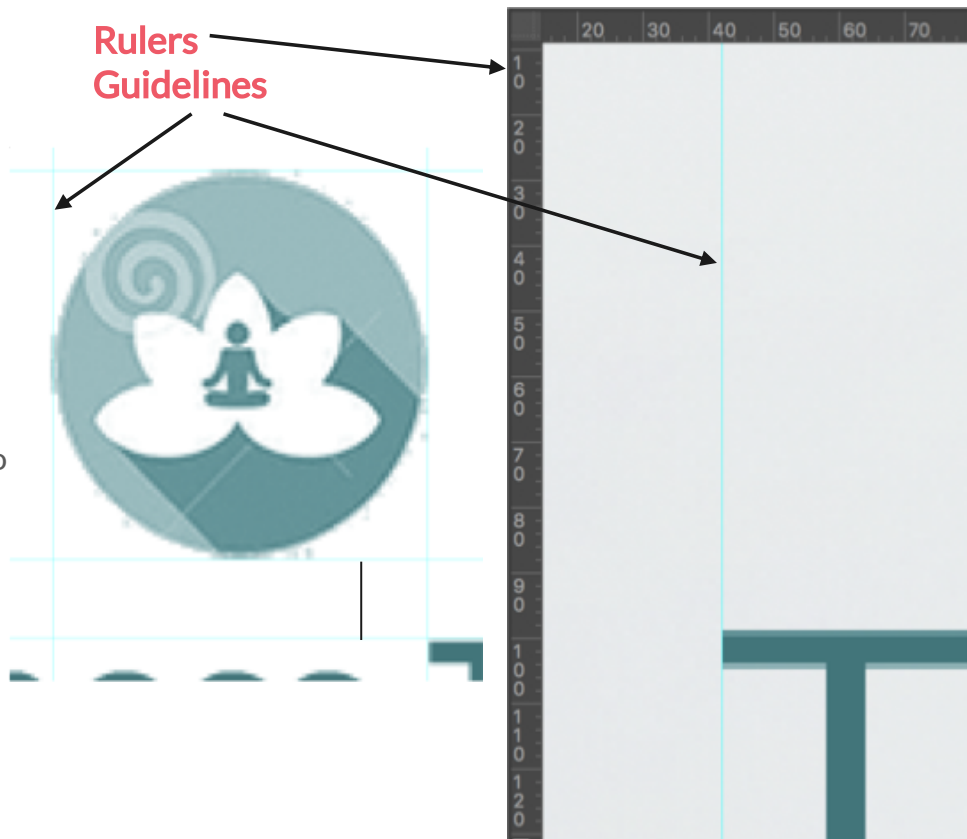**View > Rulers**

Keyboard Shortcuts:
Show/hide rulers: CTRL/CMD + R
Show/hide guidelines: CTRL/CMD + ; (semi-colon)
Show/hide grid: CTRL/CMD + " (quotes)

Rulers
Guidelines

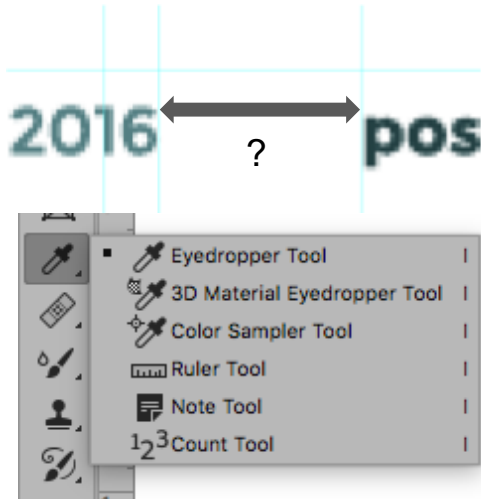# Using the rulers & guides to determine spacing

What is the spacing between the icon and the text?

Use your ruler tool and guides (an info palette should pop up - if not go to **window > info)**.

Make sure to set your measurements to pixels in the info panel hamburger menu (panel options)..

Hint: Zoom in so you can see the pixels!

Answer: 40px total. Which mean each element has a margin left and right of 20px!
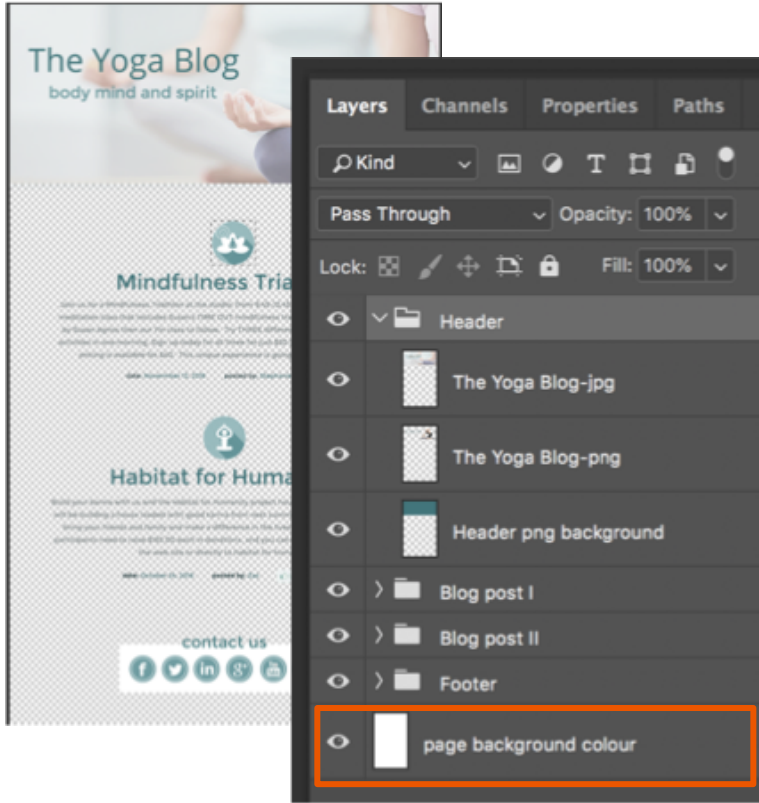
Cropping and saving images for web

Using Photoshop we are going to be cropping out our images and then saving (exporting) them for our web.

We are going to do this by using our selection and crop tools, this can be accomplished by using fixed sizing or normal (not fixed).
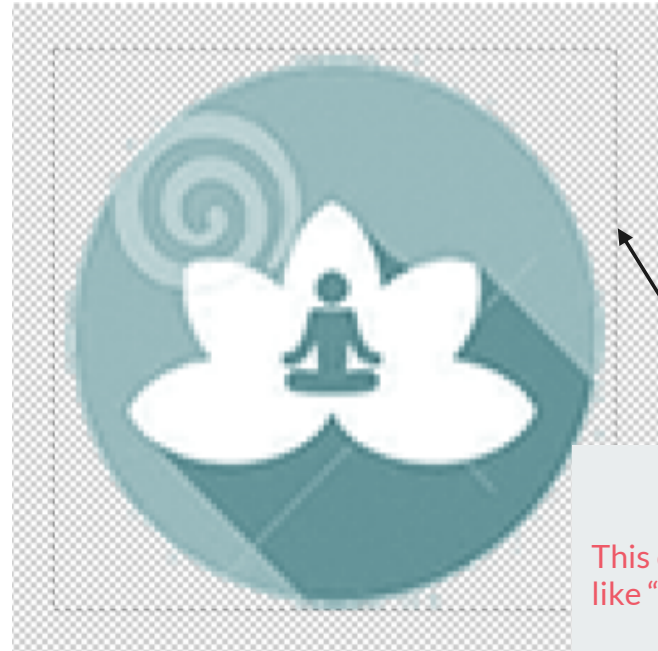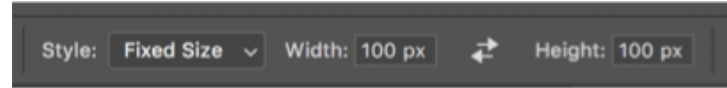
1. Open up your Photoshop document (psd) make sure you have your selection tool (v) selected. Hide your background layer.

2. Select an image/icon to crop. Let's crop out the one of the larger icons. We are going to use our marquee tools and set a fixed width of 100px by 100px. **You can find out the size of image by directly selecting the image (you should see marching ants), and clicking on your info palette. You'll see the size of the icon is 96px by 99px).**

3. After you happy with the placement of your fixed selection. Select the **crop tool (C).** Click on your selection and hit enter on your keyboard (or double click).

4. Go to **File > Export > Save for web.**

5. What format should this be in? Gif, png-8, png-24, jpg? We will be saving this as the smallest file size for the icon which is a gif.

See next slides for image examples...

Step 1: Open psd and hide background colour layer

The Yoga Blog
body mind and spirit

Mindfulness Tria

Habitat for Huma

contact us

| Layers | Channels | Properties | Paths |

Kind

Pass Through — Opacity: 100%

Lock: — Fill: 100%

👁 ⌄ 📁 Header

👁 The Yoga Blog-jpg

👁 The Yoga Blog-png

👁 Header png background

👁 › 📁 Blog post I

👁 › 📁 Blog post II

👁 › 📁 Footer

👁 page background colour

Step 2: Select the Marquee Tool (M) and set a fixed size of 100px by 100px. Click on the artboard/canvas and place your selection around your icon/image

Style: Fixed Size — Width: 100 px — Height: 100 px

This dotted line looks like "marching ants"

Step 3: Select the Crop Tool (C) and crop your image.
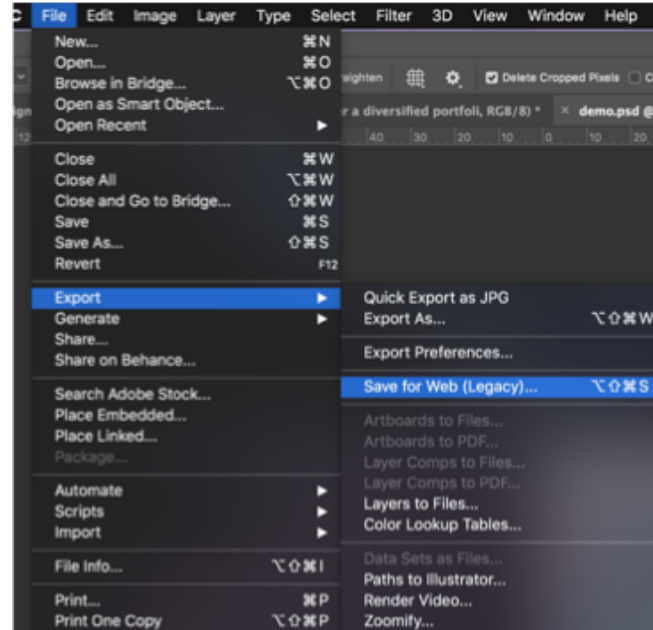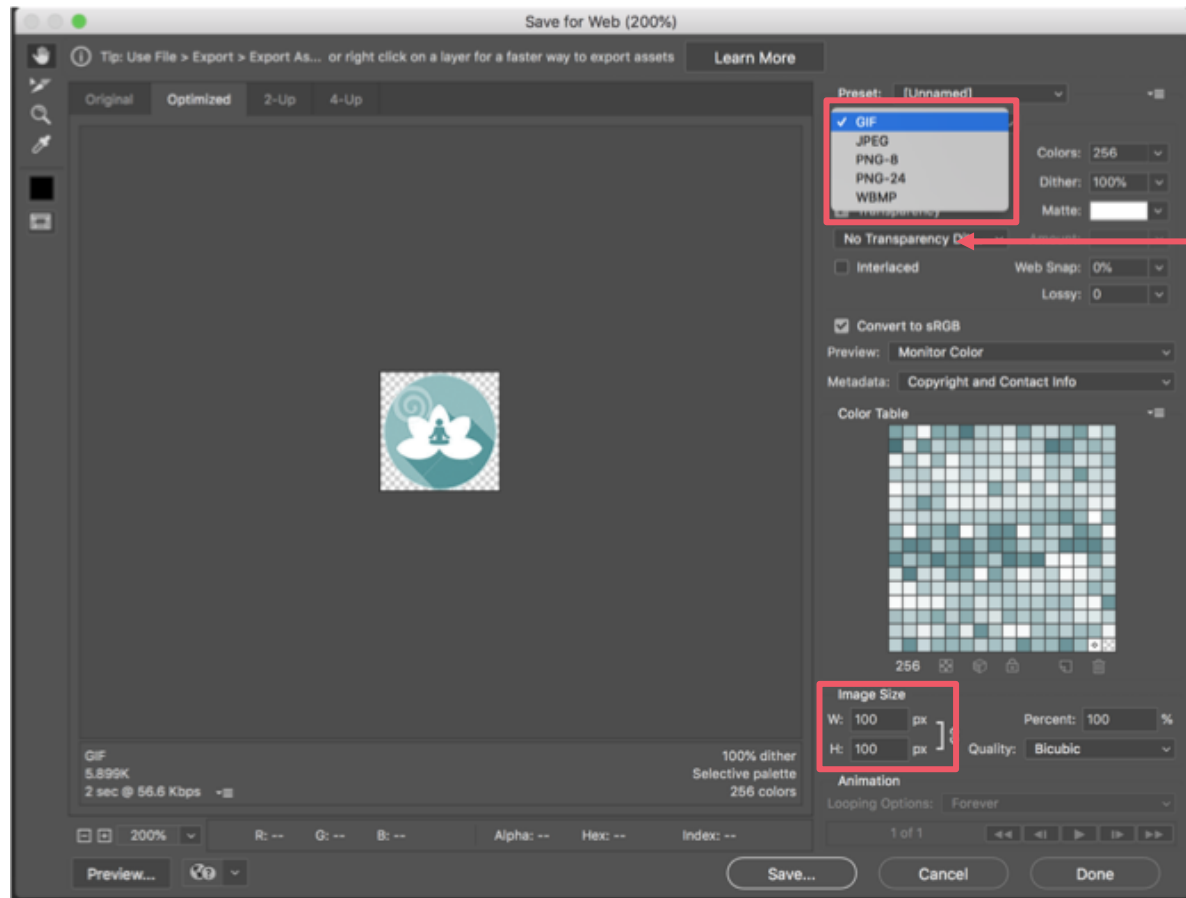

Cropping

Completed Crop

Step 4: Go to File > Export > Save For Web

IMPORTANT!
Once you have cropped your image remember that you have altered the size of your original psd file.
REMEMBER to undo the changes before saving!!

Step 5: Save your image as gif file format and click save.

Note: If you require transparency (gif) make sure that you check the box!

Keyboard Shortcuts

Selection Tool (V)

Crop Tool (C)

Zoom Tool (Z)
- ❖ PC: zoom in/out: CTRL +/-
- ❖ Mac: zoom in/out: CMD +/-

Marquee Tool (M)

Eyedropper Tool (I)

Ruler Tool (I)

Rulers:
- ❖ PC: Show/hide rulers: CTRL + R
- ❖ Mac: Show/hide rulers: CMD + R

Guides/Guidelines
- ❖ PC: Show/hide guidelines: CTRL + ; (semi-colon)
- ❖ Mac: Show/hide guidelines: CMD + ; (semi-colon)

Grid
- ❖ PC: Show/hide grid: CTRL + " (quotes)
- ❖ Mac: Show/hide grid: CMD + " (quotes)

Save For Web
- ❖ PC: CTRL + ALT + SHIFT + S
- ❖ Mac: CMD +OPTION + SHIFT + S

Keyboard Shortcuts

Select All (in a layer)
- ❖ PC: CTRL + A
- ❖ Mac: CMD + A

New Document
- ❖ PC: CTRL + N
- ❖ Mac: CMD + N

New Layer
- ❖ PC: CTRL + SHIFT + N
- ❖ Mac: CMD + SHIFT +N

Supplementary Reading

GIF & PNG-8 Format

https://helpx.adobe.com/photoshop-elements/using/optimizing-images-gif-or-png.html

PNG-24 Format

https://helpx.adobe.com/photoshop-elements/using/optimizing-images-png-24-format.html