



THE UNIVERSITY OF UTAH

EDPS 6560

Multimedia Learning

Exporting Raster Graphics for Web Publication

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Class Objectives

By the end of this class you should be able to:

- Demonstrate knowledge of filters
- Demonstrate an understanding of importing, exporting, organizing, and saving raster graphics
- Link an external style sheet
- Understand Bootstrap 4 utilities for CSS grids

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Class Schedule

5:00-5:30 PM

- Styling HTML Elements Using CSS Grids

5:30-6:00 PM

- Effects and Photograph Composition

6:00-6:10 PM

- Break

6:10-8:00 PM

- Work on the Project #1 Assignment



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Digital Assets Forum



Eric POITRAS

8:23pm



Pixabay

Get free photos for your project #1 assignment!

See: <https://pixabay.com/en/users/free-photos-242387/> ↗

Terms of service: <https://pixabay.com/en/service/terms/> ↗

↩ Reply



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CSS Syntax and Selector

CSS Syntax

- The CSS syntax consists of a selector and declaration statement.
- The **selector** identifies a single or multiple elements to assign styling properties
- The declaration, denoted by curly braces, includes **properties** and **values**. See the [CSS Reference](#) for the complete list of properties.

Example:

```
h1{  
    color: blue;  
    /* Comments are written like this... */  
}
```



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Inline Style

Inline style

- An inline style may be used to apply a unique style for a single element.
- To use inline styles, add the style attribute to the relevant element.

Example:

```
<h1 style="color:blue;margin-left:30px;">This is a heading</h1>
```



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Internal Style Sheet

Internal Style Sheet

- An internal style sheet may be used to apply unique styling properties to single pages.
- Internal styles are defined within the `<style>` element, inside the `<head>` section of an HTML page:

- Example:

```
<style>
```

```
/*
```

```
    Add styling properties here
```

```
*/
```

```
</style>
```




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External Style Sheet

External Style Sheet

- External style sheets allow you to assign CSS styling properties to every page within a website
- , Each page must include a reference to the external style sheet file inside the <link> element. The <link> element goes inside the <head> section:
- Example:
`<link rel="stylesheet" type="text/css" href="css/styleSheet.css">`
- This link reference to the stylesheet defines the type of document through the type and relation attributes



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Variable Width Column

- Alternatively, you can [resize each column to the width of its content](#) using `col-{breakpoint}-auto`, for example as in “`col-md-auto`” in the row below.

1 of 3	Variable width content	3 of 3
--------	------------------------	--------



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Vertical Alignment

- In order to vertically align **multiple** columns within rows of a certain height, use “align-items-start”, “align-items-center”, and “align-items-end” in the same div container as “row”.

One of three columns	One of three columns	One of three columns
One of three columns	One of three columns	One of three columns
One of three columns	One of three columns	One of three columns



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Vertical Alignment

- In order to vertically align *single* columns within rows of a certain height, use “align-self-start”, “align-self-center”, and “align-self-end” in the same div container as “row”.

One of three columns

One of three columns

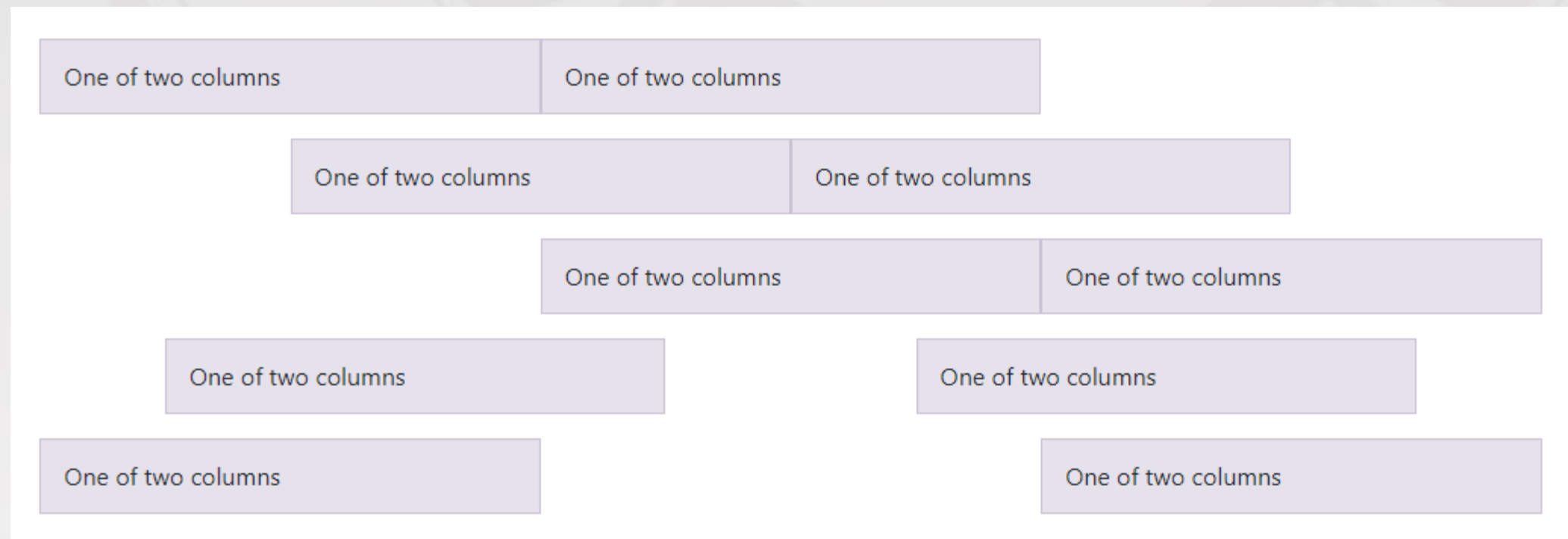
One of three columns



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Horizontal Alignment

- In order to horizontally align columns within rows, use “justify-content-start”, “justify-content-center”, and “justify-content-end”, “justify-content-around”, “justify-content-between” in the same div container as “row”.





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Offsetting Columns

- In order to move columns, you can rely on both [offsets](#) or [margin](#) utilities. The *.offset-md-** classes move columns to the left along a certain unit of width.
- The *.mr-auto* will force columns away from each other within a row.

.col-md-4

.col-md-4 .offset-md-4

.col-md-3 .offset-md-3

.col-md-3 .offset-md-3

.col-md-6 .offset-md-3



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Review BS4 CSS Grid

Purpose	Level	Examples
Variable width content	.col-{auto}	.col-auto, .col-sm-auto (replaces unit of widths)
Vertical alignment (all columns)	.row	.align-items-start .align-items-center .align-items-end
Vertical alignment (single columns)	.col	.align-self-start .align-self-center .align-self-end
Horizontal alignment (all columns)	.row	.justify-content-start .justify-content-center .justify-content-end .justify-content-around .justify-content-between
Horizontal alignment (offset single columns)	.col	.offset-3, .offset-md-3
Horizontal alignment (margin single columns)	.col	.ml-auto, .mr-auto, .ml-md-auto



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What will we be learning today?

By the end of today, you should be able to:

1. Composing images
2. Publishing images for the web

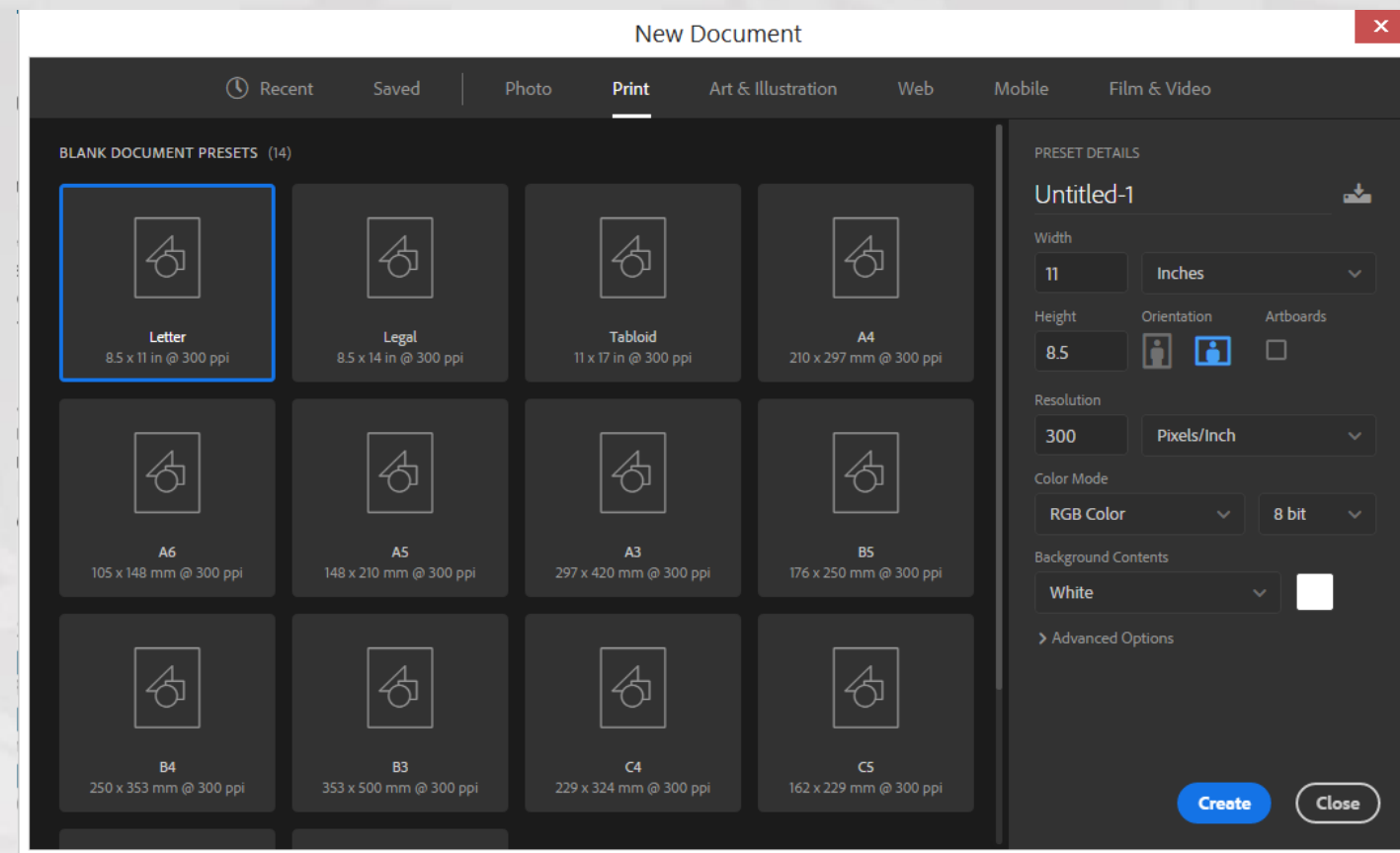




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Choose a Preset

Open Photoshop and choose New.
Select the Print > Letter 8 by 11 inch option. Change the orientation to horizontal.



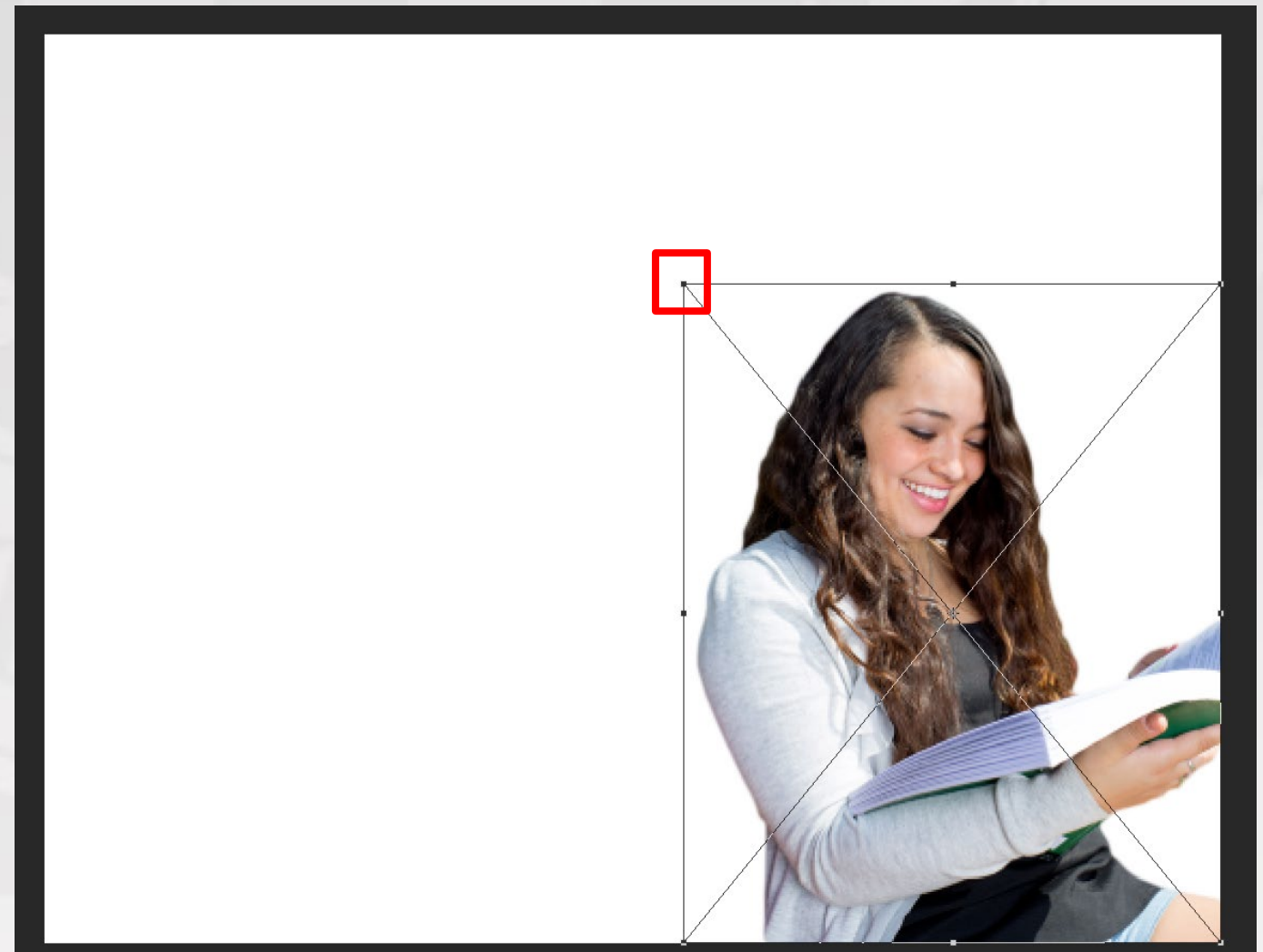
Place and resize an image

Choose File > Place Embedded.

Navigate to the file. Left click on the workspace while the icon is loaded with the image.

Resize the image by selecting the Move tool and SHIFT + dragging the corner of the image to position it in the lower left corner.


Choose Place.





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Adding preset style effects to layers

Click Add a layer style () to add effects to layers.

Explore for yourself some of the options available.

I simply added a drop shadow effect for the foreground to pop-up from the background image.



Drawing a Rectangle

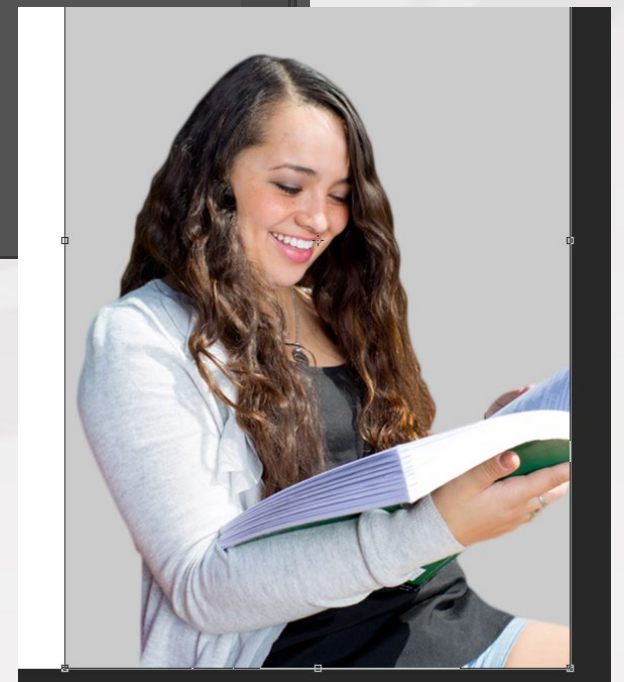
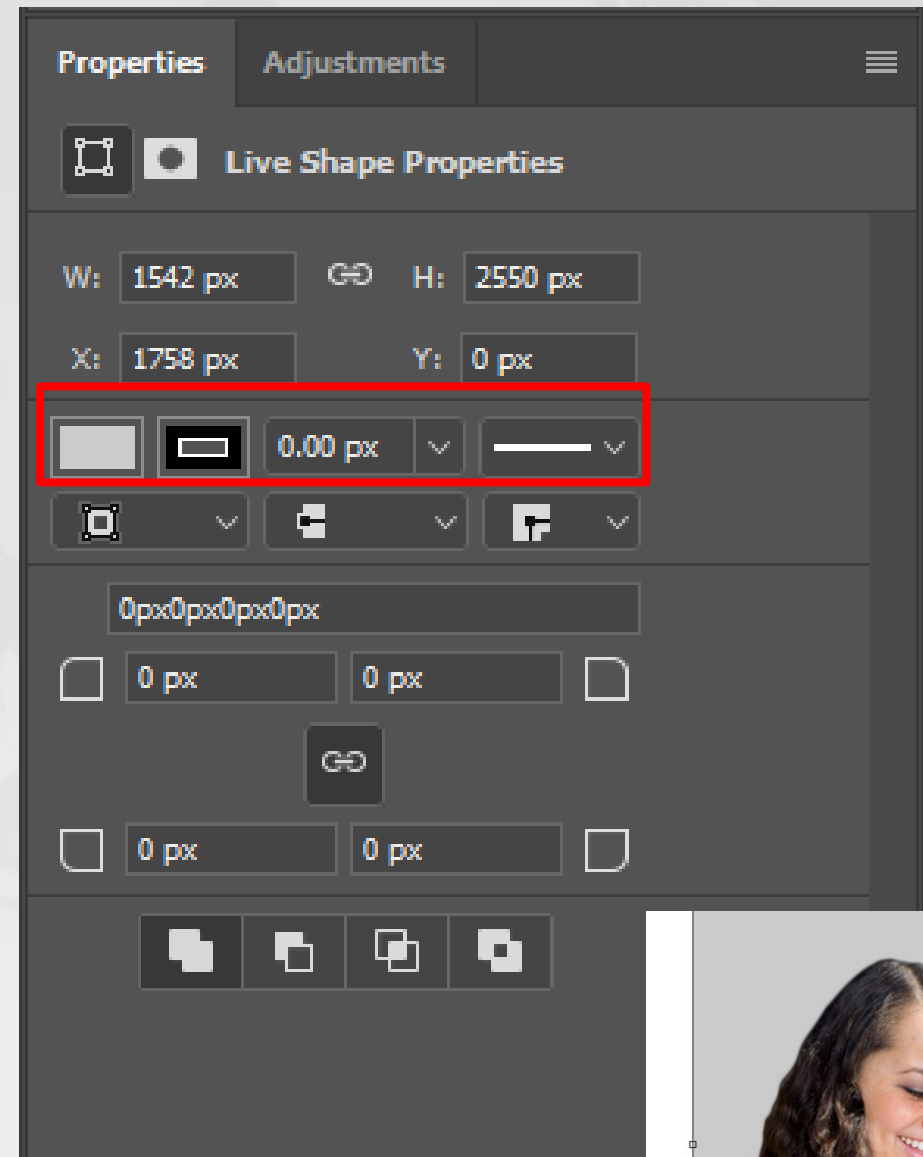
Select the Rectangle Tool. Left click and drag to draw the rectangle.

To align it with the workspace, use the Move tool. Choose Place.

Select the Rectangle layer. In the Properties panel, assign a light gray color and 0px of width to the border.

The opacity can be set in the layers panel.

Adjust the order of the layers to move the rectangle layer below the image in the stacking order.



Writing Text

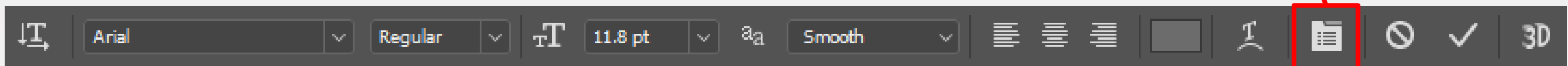
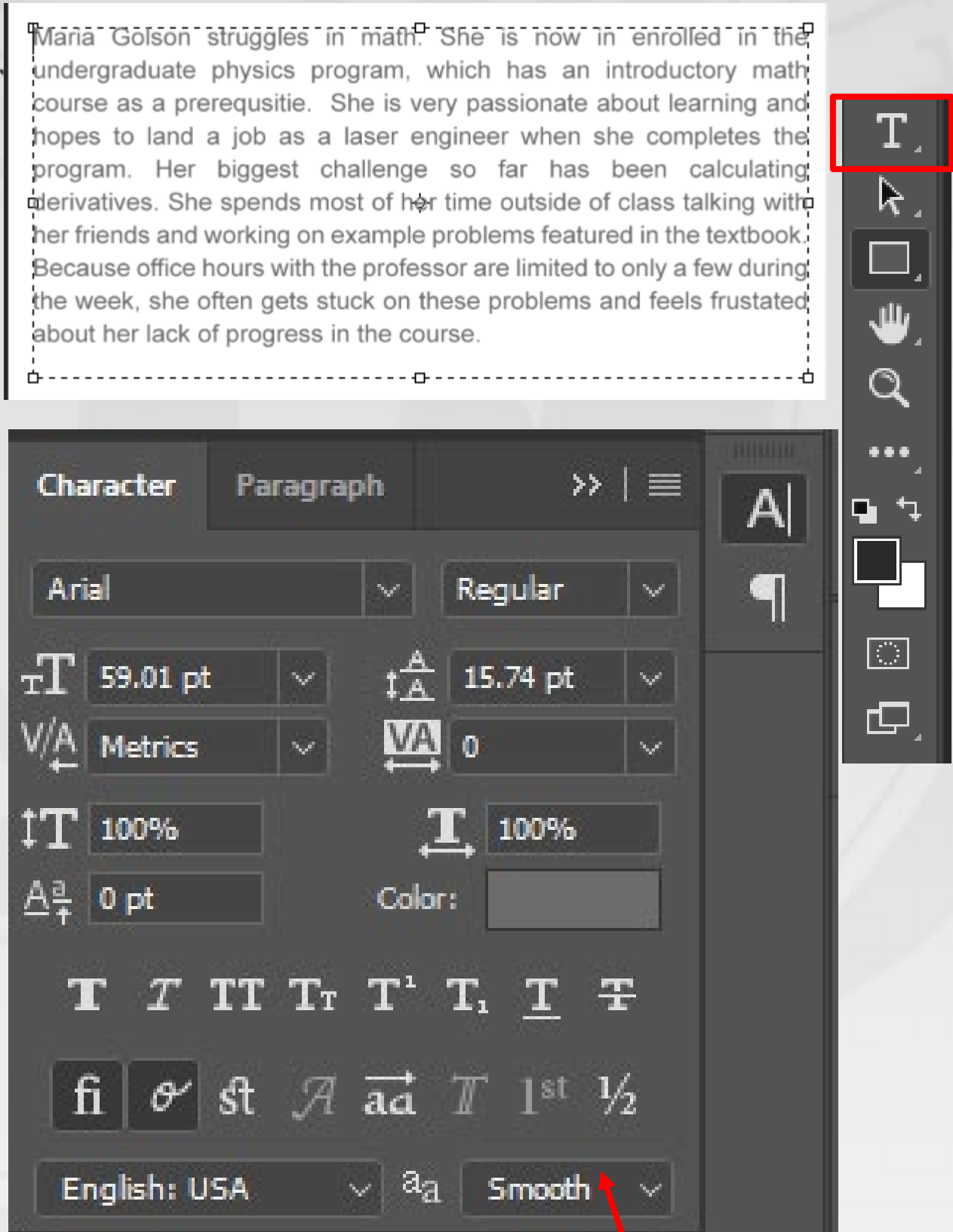
Select the Horizontal Text Tool. Left click on the workspace and drag to define the multiline text area.

For single line text, select once.

Highlight the text, you will see the properties that you can customize to style the text in the control panel.

Select the paragraph styling options, you will have additional options to style whole paragraphs.

Take some time to experiment with these options.





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Looking Forward to the Project #1 Assignment

Start working on your assignment using the tools that we've covered so far in Photoshop, if you have any questions, just let me know.

Maria Golson

MATH Student

Maria Golson struggles in math. She is now enrolled in the undergraduate physics program, which has an introductory math course as a prerequisite. She is very passionate about learning and hopes to land a job as a laser engineer when she completes the program. Her biggest challenge so far has been calculating derivatives. She spends most of her time outside of class talking with her friends and working on example problems featured in the textbook. Because office hours with the professor are limited to only a few during the week, she often gets stuck on these problems and feels frustrated about her lack of progress in the course.

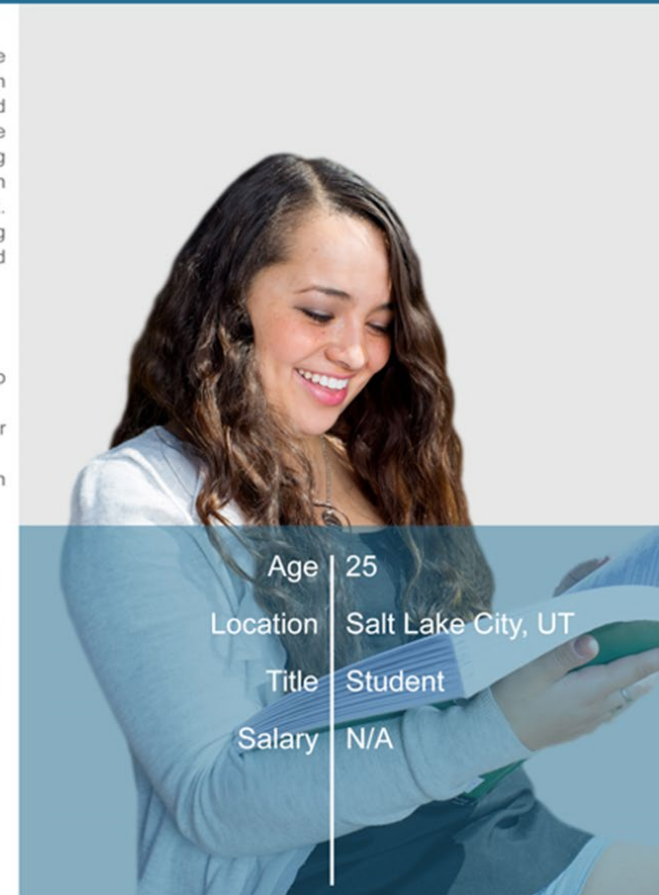
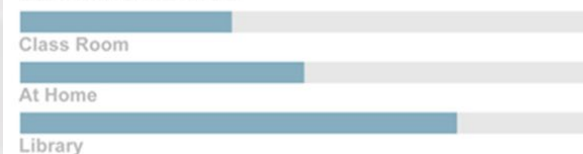
GOALS

- Learn derivatives to estimate functions through interactive examples available online with step by step corrective feedback

FRUSTRATIONS

- Problems in textbook are too advanced
- Not enough opportunities for one-on-one tutoring
- No feedback available in example problems

LEARNING METHOD



Age	25
Location	Salt Lake City, UT
Title	Student
Salary	N/A



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Looking Forward to the Project #1 Assignment





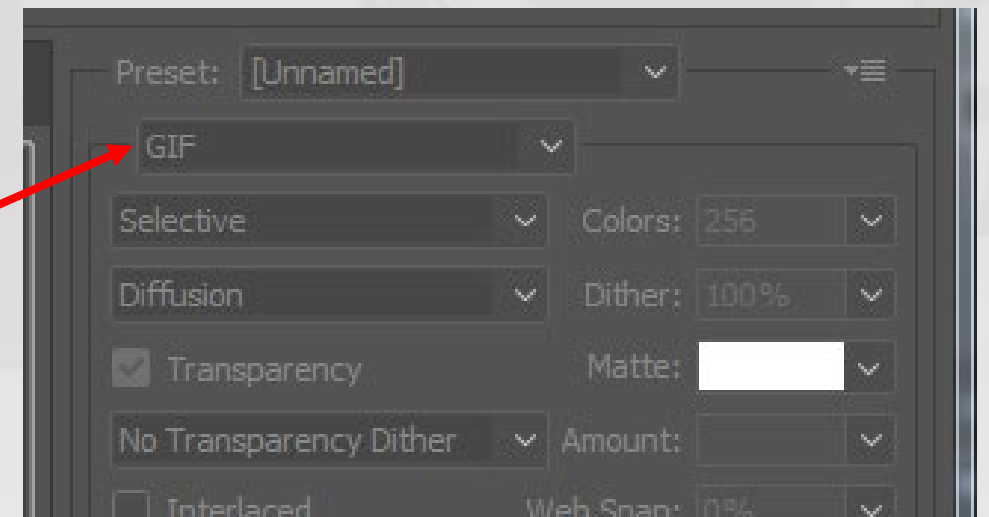
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Exporting the photo

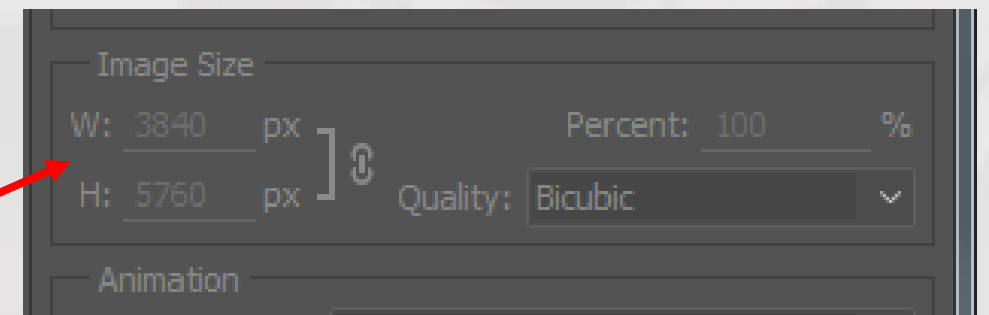
When you are satisfied with the results, save the file in an optimized format for either print or web publishing. For web publication, choose *File > Export > Save for Web*.

Then experiment with the compression format and image dimension to get the desired file quality/size.

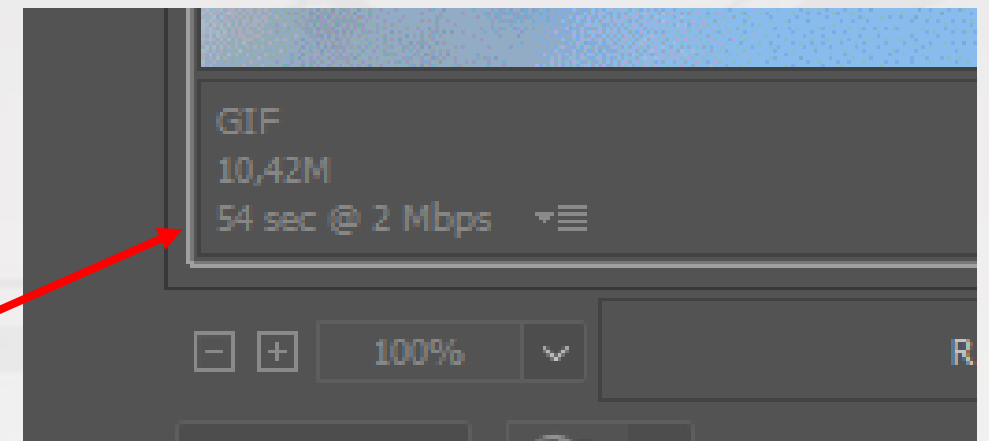
Choose compression settings (file format)



Choose width and height



Monitor the resulting file size (less than 500Kb for web is ideal)





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Break (10 min.)



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Looking Forward to Project #1: Raster Graphics in Photoshop

- Apply the skills you have learned in Photoshop to edit a photograph
- For example, you may want to create a user persona as part of the requirements for the HCI class, a professional headshot for your portfolio in GitHub, background image for your site, ...
- You can take your own photograph, use a pre-existing one, or download a Creative Commons licensed one from the web.
- You are expected to demonstrate knowledge of retouching and blending tools, selection tools, filters, and adjustment layers as well as export the project in a format optimized for the web.
- You are required to submit the following files as a compressed zip folder:
 - Revised version of the image (.jpg, .png, ...)
 - Photoshop project file (.PSD)

Looking Forward to Project #1: Raster Graphics in Photoshop

- If you did any destructive edits to correct flaws in the image, just explain the steps you've taken as a comment in Canvas when submitting your assignment.
- Formatting requirements:
 - Prepare the image to be published for the web – less than 250Kb or a quarter of a MB.
 - If a filter is applied to the image, enable the smart filter option
- The assignment is due at 11h59PM on Friday, the 8th of February.



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Ps Resources

- **Photoshop tutorials**
 - [PHLearn](#)
 - [Photoshoptutorials](#)
 - [Photoshopcafe](#)
- **iOS App (Free)**
 - [Pixlr](#)
 - [Adobe Photoshop Express](#)
- **Desktop App (Free)**
 - [GIMP](#)