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Interactive Web Design

Preparing Images for the Web

Creating Thumbnails

We will make add some thumbnail images as hyperlinks to larger versions of the same image. Thumbnails reduce the initial file size of a webpage, helping to increase speed and decrease storage requirements both on the server and the client device.
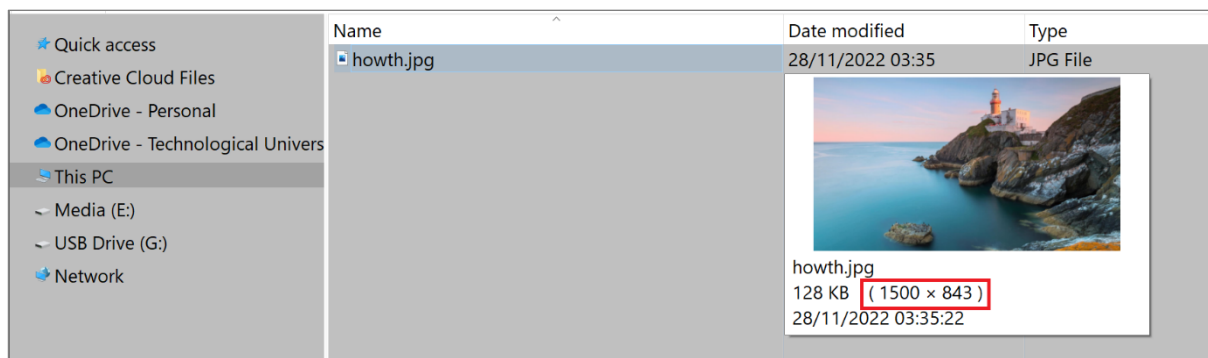
Step 1: Create a folder in your main project folder called ***images***

Step 2: Save a full-size, high-resolution photo from the web to your project. You can find some high resolution images on Google search images or dedicated photos sites such as: https://unsplash.com/ and https://www.pexels.com/
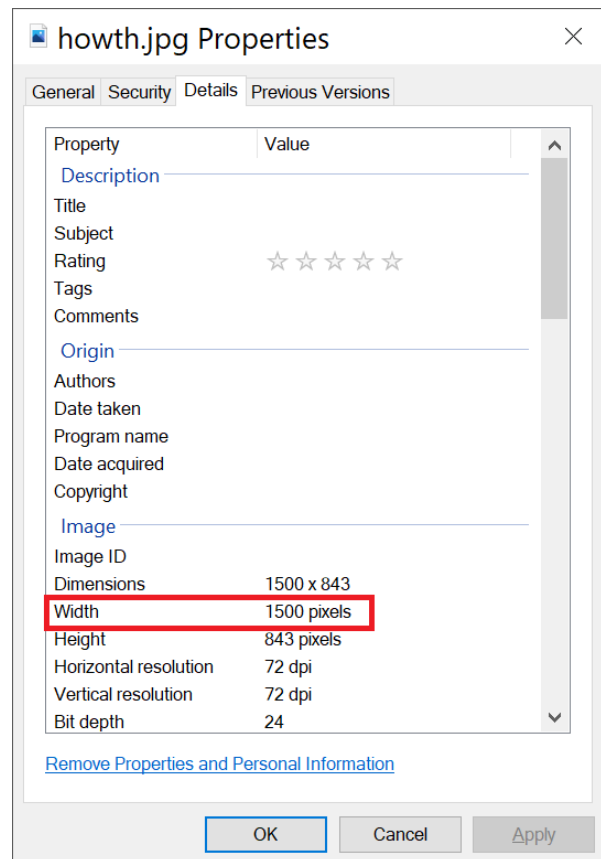
Step 3: After downloading the photos to your images folder, check the resolution of the image is at least 1024 pixels wide.

Using Windows to Check Image Resolution:

In your Windows folder where you saved your image, hovering over the image should show the pixel width:

Or right click on the image and select Properties to bring up the image's properties window. Then select Details and notice the image's size in pixels:
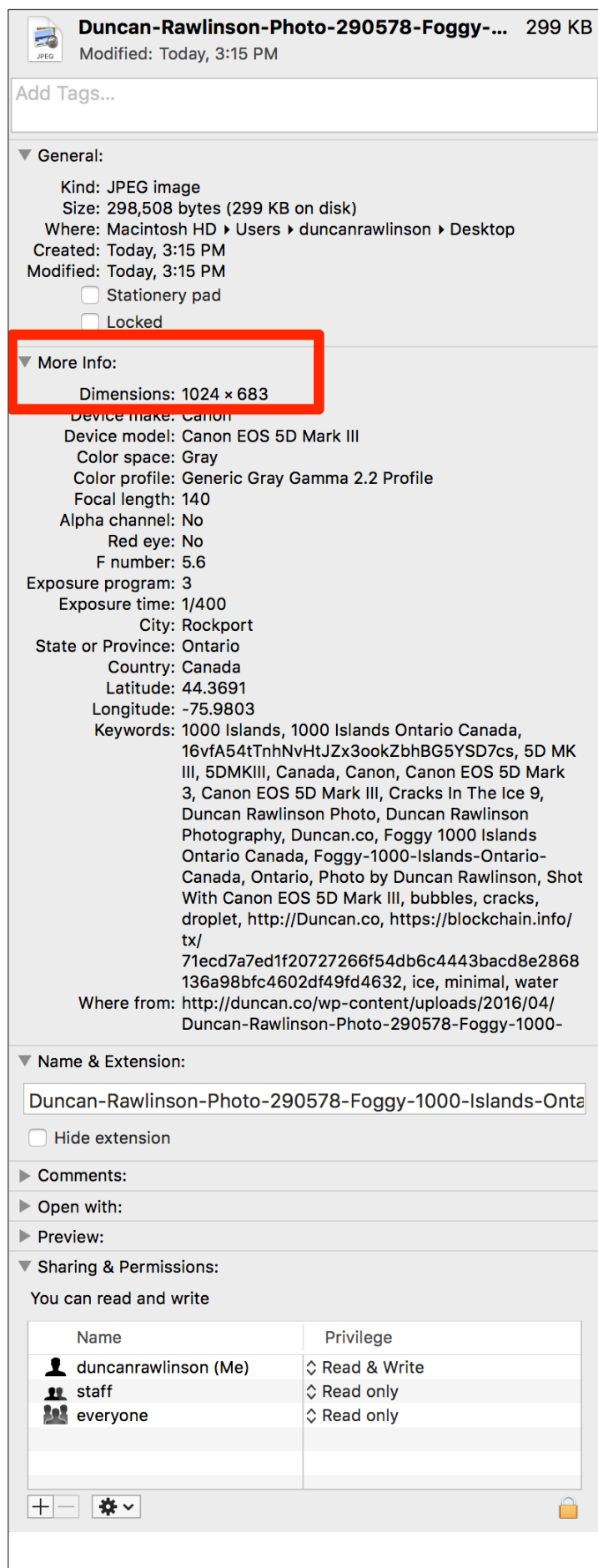
Using Mac:

Navigate to the folder containing your image using **Finder**.

Right-click (or Control-click) on the image file.

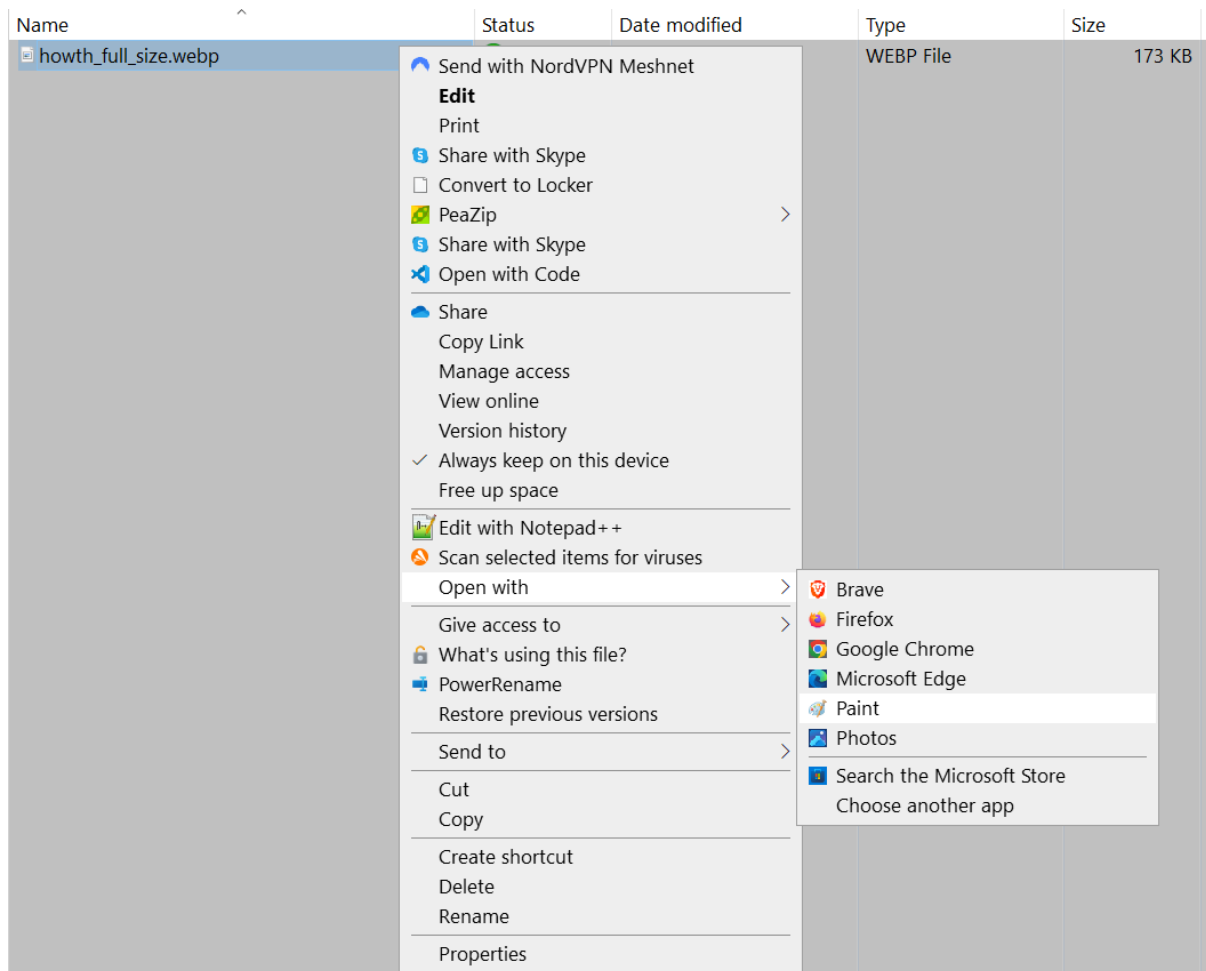Click **Get Info** > from the context menu. A new window will pop up.

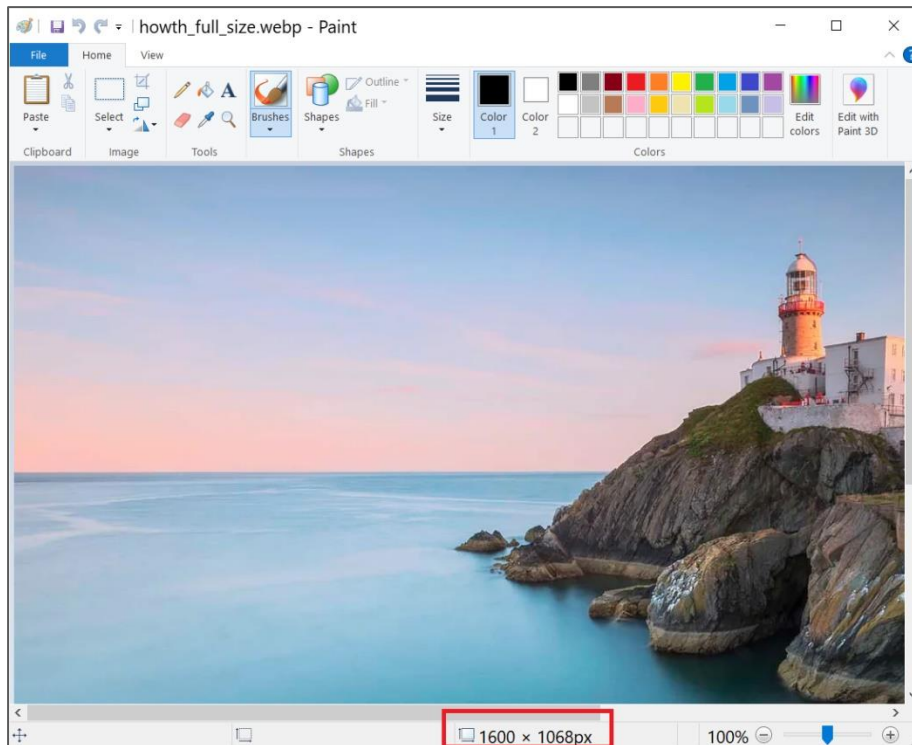Under the "**More Info**" you will see the dimensions of the image.

Duncan-Rawlinson-Photo-290578-Foggy-...   299 KB
Modified: Today, 3:15 PM

Add Tags...

▼ General:
    Kind: JPEG image
    Size: 298,508 bytes (299 KB on disk)
    Where: Macintosh HD ▸ Users ▸ duncanrawlinson ▸ Desktop
    Created: Today, 3:15 PM
    Modified: Today, 3:15 PM
    ☐ Stationery pad
    ☐ Locked

▼ More Info:
    Dimensions: 1024 × 683
    Device make: Canon
    Device model: Canon EOS 5D Mark III
    Color space: Gray
    Color profile: Generic Gray Gamma 2.2 Profile
    Focal length: 140
    Alpha channel: No
    Red eye: No
    F number: 5.6
    Exposure program: 3
    Exposure time: 1/400
    City: Rockport
    State or Province: Ontario
    Country: Canada
    Latitude: 44.3691
    Longitude: -75.9803
    Keywords: 1000 Islands, 1000 Islands Ontario Canada, 16vfA54tTnhNvHtJZx3ookZbhBG5YSD7cs, 5D MK III, 5DMKIII, Canada, Canon, Canon EOS 5D Mark 3, Canon EOS 5D Mark III, Cracks In The Ice 9, Duncan Rawlinson Photo, Duncan Rawlinson Photography, Duncan.co, Foggy 1000 Islands Ontario Canada, Foggy-1000-Islands-Ontario-Canada, Ontario, Photo by Duncan Rawlinson, Shot With Canon EOS 5D Mark III, bubbles, cracks, droplet, http://Duncan.co, https://blockchain.info/tx/71ecd7a7ed1f20727266f54db6c4443bacd8e2868136a98bfc4602df49fd4632, ice, minimal, water
    Where from: http://duncan.co/wp-content/uploads/2016/04/Duncan-Rawlinson-Photo-290578-Foggy-1000-

▼ Name & Extension:

Duncan-Rawlinson-Photo-290578-Foggy-1000-Islands-Onta

☐ Hide extension

▶ Comments:

▶ Open with:

▶ Preview:

▼ Sharing & Permissions:
You can read and write

Name	Privilege
👤 duncanrawlinson (Me)	◇ Read & Write
👥 staff	◇ Read only
👥 everyone	◇ Read only

＋ − ⚙ ✓ 🔒

Step 4 – Option 1: Using Windows

If you are using Windows, you can open your saved image in paint and right clicking on the image and selecting *Open With - Paint*
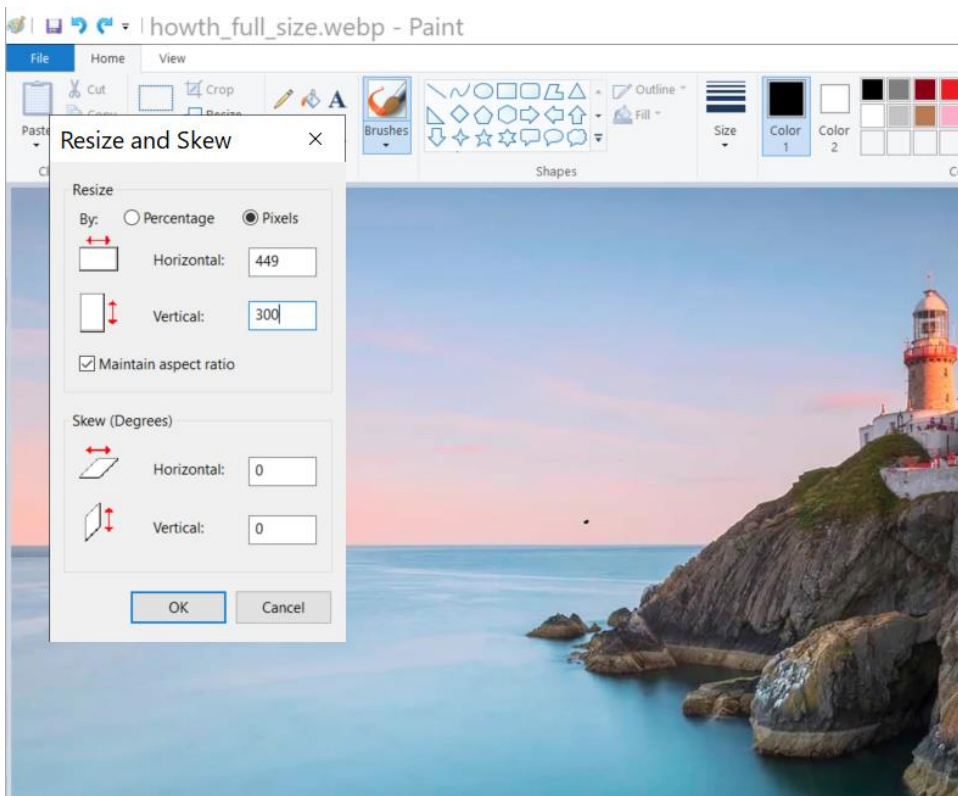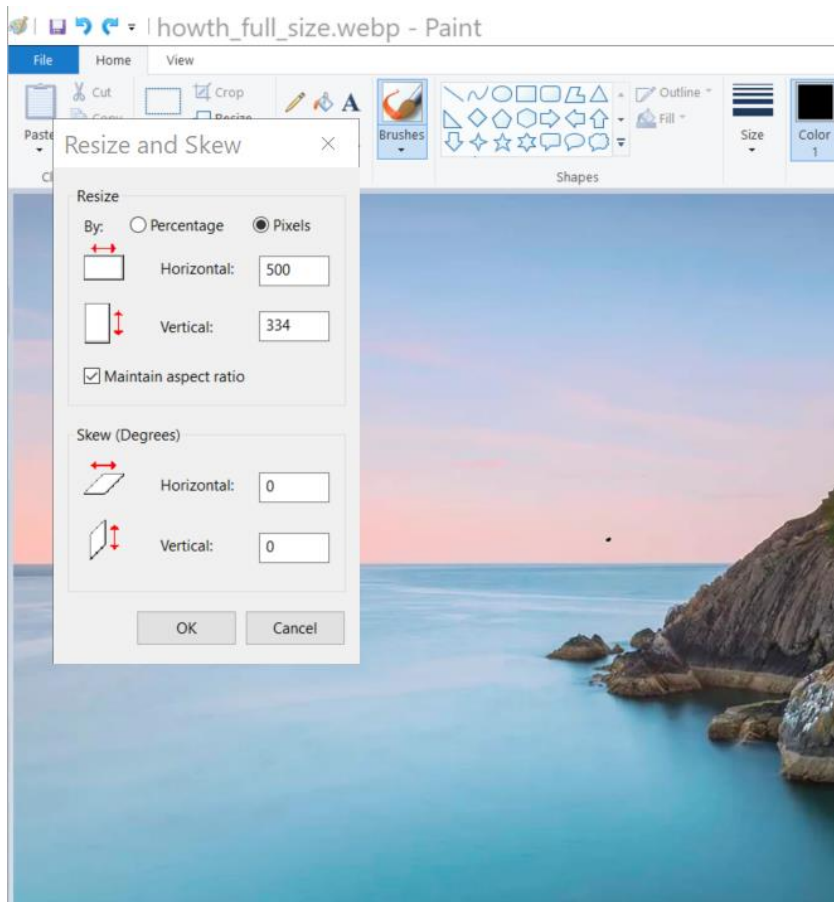
Notice that you can see the image dimensions at the bottom of the Paint window.

We would like our thumbnail to be 500 pixels wide by 300 pixels high.

1. Click on Resize
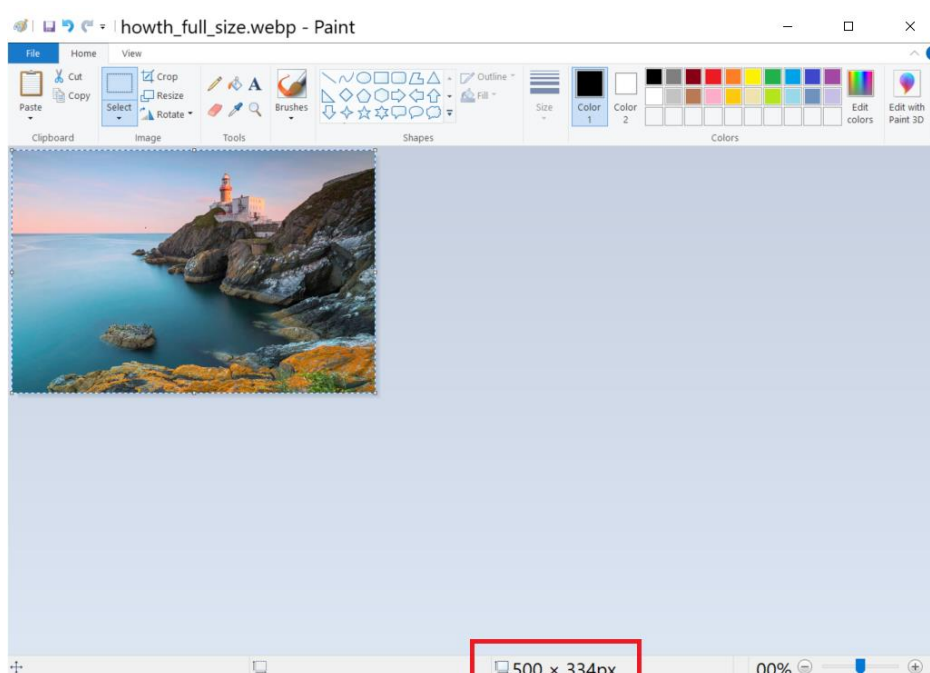2. Select Pixels
3. Enter 300 in the *Vertical* field

Notice that we have an issue where the horizontal is less than 500 pixels wide. We need to enter a number in the vertical field that will make the horizontal field 500 pixels wide. Increase the vertical pixels until you get 500 pixels in the Horizontal field.
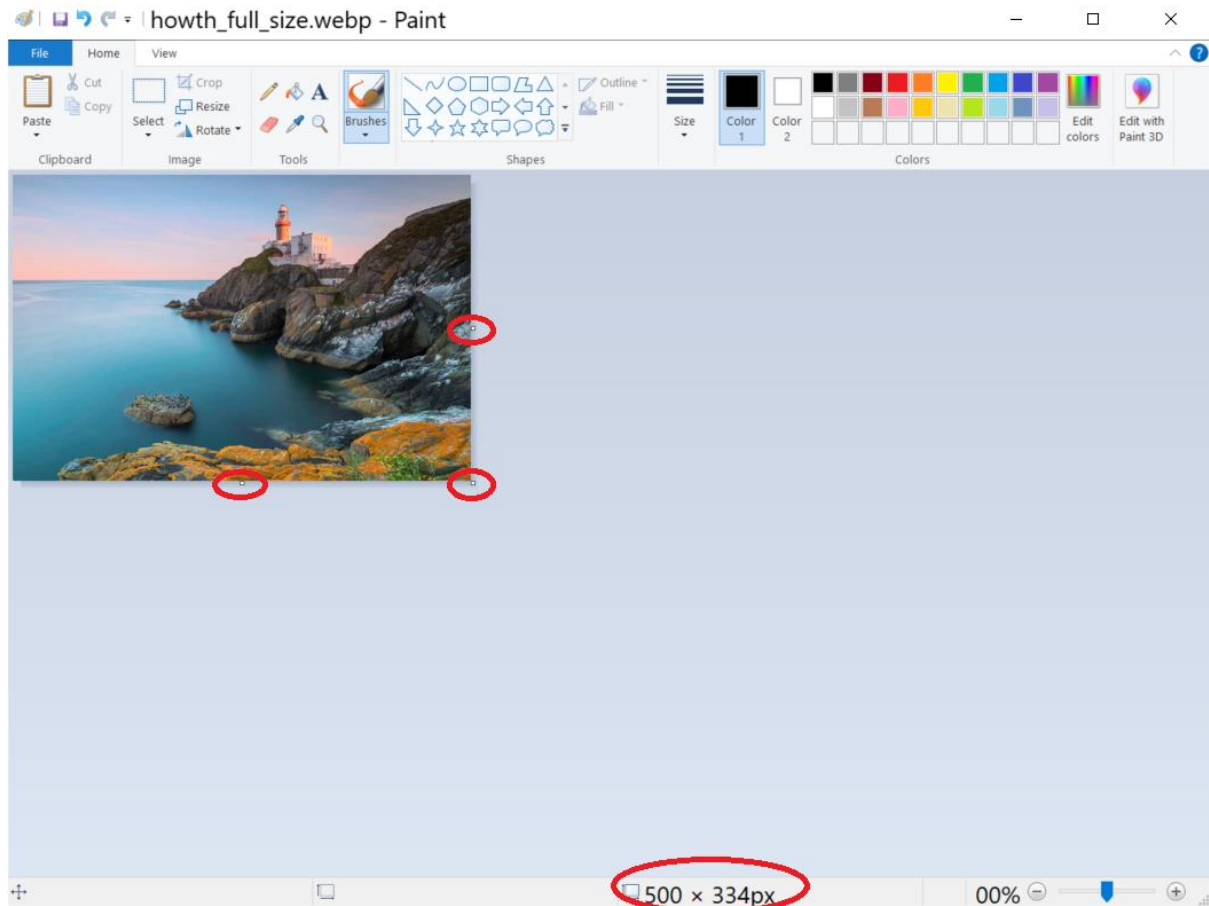

So now our image is too high (with the Vertical field showing 334 pixels).

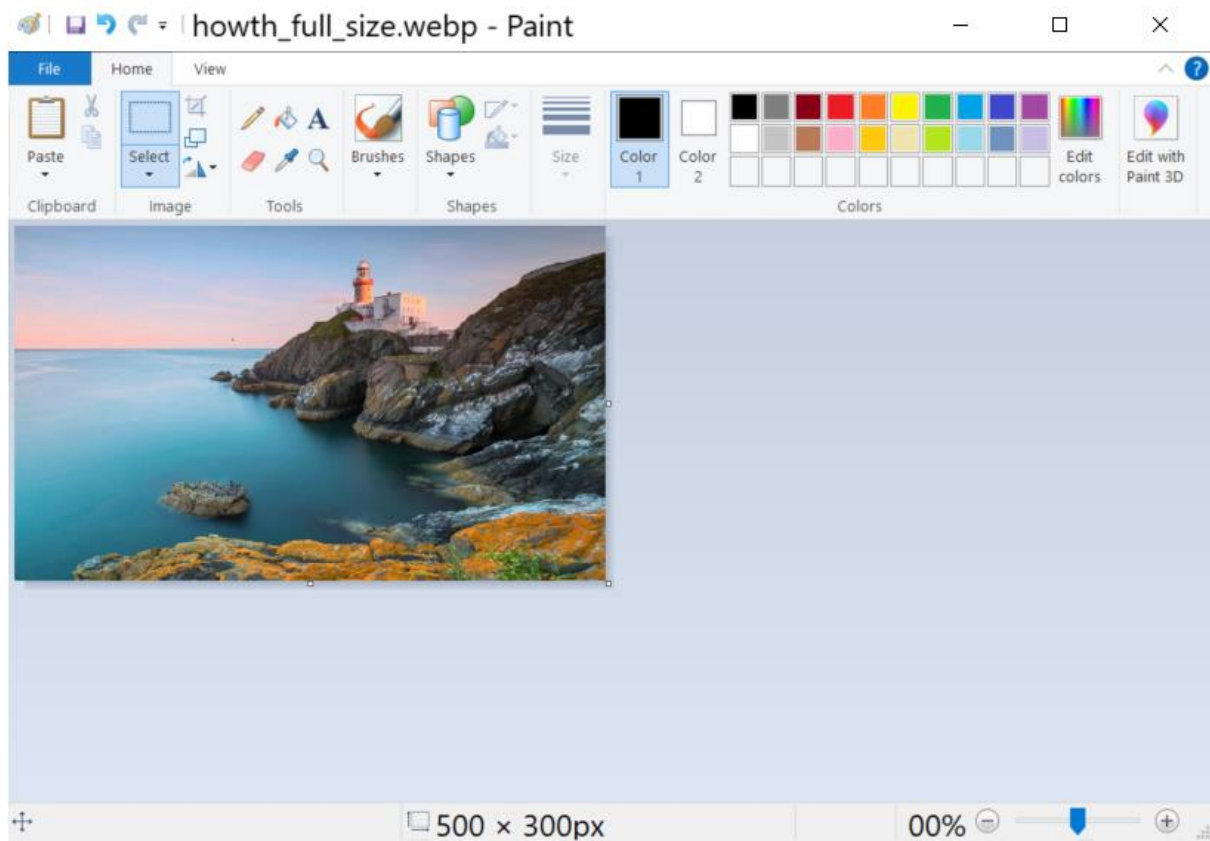Click OK and you should see that your new image is now has the dimensions of 500 x334 pixels.

Now we need to crop the height of the image to make it 300 pixels hight. To do this:

Left click on the small square at the bottom of the image and while holding down the left mouse button, drag the mouse upwards. Watch how the image height is reducing in pixels dimensions, shown at the bottom of the Paint window.

Then click the crop icon and your image should now be 500 x 300 pixels without the white border.

4. Select File, Save as
5. Rename the image to be the same file name as the original image proceeded by ***thumbnail_***
6. *For example, **thumbnail_howth.jpg***