### Building a Responsive Website

https://helpx.adobe.com/dreamweaver/how-to/make-style-web-page.html

1. **Learn how to build a responsive web page**
   1. Getting Ready
      1. We will be using an Adobe Dreamweaver tutorial called "Learn how to build a responsive web page from scratch. (Try it, 45 min)"
      2. Go to it: https://helpx.adobe.com/dreamweaver/how-to/make-style-web-page.html
      3. Get the sample files by clicking on the button: "Sample files to practice with (ZIP, 12.6 MB)"
      4. This will give you a zipped file: make-style-web-page.zip
      5. Move it to the desktop and unzip it there.
      6. This gives you a folder: make-style-web-page, which contains
         1. gallery.html
         2. an "images" folder which we will be using
         3. a "content" folder with a text file that can be used to add text
         4. a "completed" folder showing how our site will be when we are finished
   2. Start Dreamweaver
      1. Open Dreamweaver to set up your site: Site > New Site.
      2. Give it any name you like, such as "responsive" and browse to the folder "make-style-web-page" and choose this folder as your local site folder.
      3. Set your workspace: go to the top right and click on Beginner (if it is not already set)
      4. In the Files panel, you should see gallery.html and the 3 folders mentioned above.
   3. Create a Home Page
      1. File > New > HMTL > Bootstrap tab
      2. In the Bootstrap screen: Click on "Create New"; uncheck the "pre-build layout option"; expand the "Customize" settings
      3. Keep all the defaults and click on "Create"
      4. File > Save; Name the file "index.html" and click "Save".
      5. Dreamweaver created new folders: css, fonts, js. Be sure to leave these alone.
2. **Add a Page title and a container**
   1. Put Dreamweaver in "Split" view, with Code view on the left and Live view on the right.
      1. Click on "Split" view.
      2. View > Split Vertically
      3. View > uncheck Live View on Left
   2. Add a title to this page
      1. Click anywhere on the Live view and add the title "Stargazer" in the Properties Inspector below.
      2. The asterisk in the a file name above the Document bar indicates something has changed in the file and has not been saved: File > Save.
   3. Preview in browser
      1. Click on Preview/Debug in browser (globe icon on lower right) and select Chrome, or any other browser listed there.
      2. We don't see anything other than the title "Stargazer"
      3. Close the browser window and return to Dreamweaver.
   4. Add a container to hold all of the page's content
      1. Click on the Insert panel and select the Bootstrap Components category.
      2. Click anywhere in Live view and look for "body" in the heads up display to add the code right after the body tag.
      3. Click on "Container-fluid" in the Insert panel to add it.
      4. We now have a div with a class name of container-fluid in both live and code views.
      5. File > Save.
3. **Add structure and content**
   1. Add the main menu
      1. Make sure the container-fluid div is selected: you can click on the div in the DOM, which gives a visual hierarchical structure of the entire page.
      2. Insert > Bootstrap Components > Navbar > Basic Navbar
      3. Select the Nest option to put the Navbar inside the container, making it a child element of the parent element "container"
      4. Click on Live view to see the full width: links, drop-down, search, button, etc.
      5. See how it looks when the display gets smaller: The menu becomes the standard sandwich icon for mobile devices.
   2. Add the carousel (a slideshow)
      1. Go back to split view
      2. In the DOM click on Navbar
      3. Insert > Bootstrap Components > Carousel > select After to put the carousel after the Navbar.
      4. File > Save (Dreamweaver presents an alert message) > OK.
   3. Add heading and paragraph text to carousel
      1. Set up container: In the DOM panel click on the div with id of carousel1.
      2. Insert > HTML category > Article > After (the carousel)
      3. Choose Heading:H1 > Nested (in the article)
      4. Choose Paragraph > After (the heading H1)
   4. Add images (there are three of them) after the Article
      1. In the DOM panel click on Article to add images after it.
      2. Insert > Bootstrap Components > Thumbnails > After (Dreamweaver alert message) > click OK.
      3. Dreamweaver (See DOM) builds a row container, and a column container (to hold the thumbnails) inside the row.
   5. Add the Footer:
      1. In the DOM panel, select a class of "row"
      2. Insert > HTML > Footer > After
      3. Save and Preview in browser (the structure is now in place)
4. **Add custom content**
   1. Work on Navbar in full Live view
      1. In the DOM, leave the Brand label there.
      2. The next div is a ul (don't want this), select it and press the Delete key.
      3. Next is the Form element (with Search field and Submit button). Delete this.
      4. Leave the link element and delete the drop-down element (now have only one li.
      5. We want three li's. Right-click on the li in the DOM panel and choose Duplicate
      6. Duplicate again so we have three li's
      7. Double-click on Brand in Live view to enter edit mode. Double-click again to select it and replace it with Stargazer.
      8. Replace the first link with About; the second with Gallery; and the third with NASA.
   2. Work on Carousel
      1. In the DOM panel, click on a div with an id of carousel1.
      2. Click on First Slide Heading; double click it to enter edit mode; then triple-click it to highlight all the text
      3. Replace it with Canis Major
      4. Follow the same steps above and change First Slide Caption with Chandra X-Ray Observatory
      5. Click on the arrow icon to scroll to the next image in the carousel and replace with The Tadpole and Hubble Space Telescope
      6. On the third slide, change to Cloud Complex and Spitzer Space Telescope
   3. Work on the Article
      1. Click on the Article node in the DOM
      2. Double-click on Content for New article Tag Goes Here and press Delete
      3. Select the H1 heading and change it to Let's Go Spacey
      4. Select the paragraph and give it some Ipsum text
         1. Click Split to go into split view
         2. Click p in the DOM panel
         3. Select the text between the <p> and </p> and delete it.
         4. Between the <p> and </p> type "lorem70" and press Tab to generate 70 words for this paragraph.
         5. Click the refresh button to see the paragraph in Live view.
      5. Updating the thumbnail
         1. Delete the 2 default buttons by clicking on the p node in the DOM that contains a class of btn and press Delete
         2. Delete the text inside the paragraph tag below the Thumbnail 1 label
         3. Type lorem40 and hit Tab to generate 40 words of Lorem Ipsum text.
      6. Footer
         1. Delete the placeholder text in the Footer.
         2. Type Copyright 2016
         3. In code view, place cursor before the "C" in Copyright
         4. Insert > HTML category > scroll to the bottom to see the Character option.
         5. Click on the drop-down list and select the copyright icon.
         6. Refresh Live view to see it.
      7. Add two more thumbnails
         1. Click on Live view to expand it
         2. In the DOM select the div with a class of row.
         3. Inside the row is a class of col-md-4 (meaning 4 columns) so this row can hold 3 of these thumbnails.
         4. Make sure the div with class of col-md-4 is selected in the DOM, press Ctrl+D; Ctrl+D again to get third thumbnail.
         5. Replace Thumbnail 1 labels with C Ring, A Ring, and S Rings respectively
         6. File > Save
5. **Add images and links**
   1. Replace the carousel placeholder images with header1.jpg, header2.jpg, and header3.jpg by using the point-to-file (crosshair) icon in the Src field to the respective file in the images folder.
   2. Replace thumbnail images by using the sandwich icon
      1. Click on the first image holder, and click on the sandwich icon in the heads up display.
      2. Click on the folder for the src field. You should see your files. If not, click on the Site Root button.
      3. Click on the images folder and select thumbnail-1.jpg and click OK.
      4. Repeat for the next two image holders with thumbnail-2.jpg and thumbnail-3.jpg respectively
   3. Add links
      1. A relative link pointing to another page in our own website: Click on Gallery in the Navbar, drag the crosshair icon to gallery.html
      2. An absolute link pointing to another site on the web: Click NASA on the Navbar, in the Properties Inspector in the link field, type the full address: http://www.nasa.gov
      3. In the target field, select \_blank to open this page in a separate tab.
      4. File > Save and test using the globe icon to select a browser.
      5. Click the Gallery button to make it opens the gallery.html page. Click the back button to return to the home page.
      6. Click the NASA button, this should open NASA's website in a separate tab.
      7. Close the browser and return to Dreamweaver.
6. **Style text content (creating a new external css file)**
   1. Click on CSS Designer panel
   2. Click the + icon in the Sources section and select Create a New CSS File
   3. Browse to locate the css folder and name this file styles.css
   4. Click Save, click OK. (It is displayed in the Document toolbar.)
   5. Click on Split view and click on styles.css to see the code. It has only one line.
   6. Center align all text in our page
      1. Click on the + icon in the Selectors section of the CSS Designer panel
      2. Type h1,h3,p and press Enter. Notice a new declaration in code view. You might need to refresh.
      3. In the Properties section of the CSS Designer uncheck the Show Set box if it is checked.
      4. Click the Text category in the Properties section
      5. Find the text-align property and click on center align icon (all text is now center aligned)
      6. File > Save All (to save both the changes in source code and css files).
   7. Expand Live view and check out the Article section
      1. It now stretches across the entire width of the page
      2. To select the article section, click on the h1 and press the up arrow once to move up the HTML hierarchy to the article element (the parent element).
      3. To add an id to the article element: click the + in the heads up display (Add Class/Id), type #main, and press Enter
      4. Dreamweaver prompts where to add the id: Make sure styles.css is selected, press Enter. You can now see #main in CSS Designer. Click on it.
      5. Go to the Layout section and set the width property to 75% Looks good on regular size monitor, but may be too large for very large monitors. (75% means 75% of the width of the browser on a particular monitor).
      6. So set the max-width to 750px so that it will never go over 750 pixels.
      7. To center the text in the center of the page: set the left and right margins to auto.
      8. To give it some space above and below: set the top and bottom margins to 60px
   8. Footer
      1. Click on footer at the bottom of the page and click on + to add a selector: footer and press enter to save the selector name
      2. Add 60px to top margin to put some spacing between the footer and the thumbnail section above it
      3. Add 25px to top and bottom padding
      4. Set the background color: to #383838 and press Enter to accept the value. Now we can't see the text.
      5. Change the text color to #F5F5F5
      6. Set text-align to center
      7. File > Save
7. **Style the menu**
   1. Click inside the Nav bar and keep hitting the up arrow key until the heads up display shows the nav element with navbar and navbar-default classes assigned to it. Want to override these, since they are used for the entire navigation bar.
   2. Select styles.css in the document toolbar and go to the CSS Designer
   3. In Source, click on styles.css
   4. Add a Selector: .navbar.navbar-default
   5. Properties
      1. remove border - set width to 0px
      2. no round corners - go to border radius, click the chain icon and set one of the radii to 0px. All four corners are now set to 0px
      3. Background - set background-color to #FFFFFF
      4. Layout - set top margin to 20px
      5. Why does it span the width of the page? Because inside the navbar element is a div with a class of container-fluid.
      6. Change container-fluid to container in the heads up display (this provides spacing on both sides that makes it look much better)
      7. File > Save
8. **Add the finishing touches**
   1. Some issues:
      1. Preview in browser to see extra gray space on the left and right sides in the carousel
      2. Thumbnails have extra space on left and right sides
   2. Want all images to expand to the width of their container in all screen sizes
   3. Solution:
      1. Click on Live view
      2. Click on one of the images in the carousel
      3. Make sure the heads up display shows the img element (.center-block).
      4. Click the Add Class/ID and type in .image-fill as the class name, press Enter and add it to styles.css
      5. Select the left edge of the CSS designer panel and drag it to the left until two columns show up in CSS Designer
      6. In the CSS Selectors panel, select the .image-fill class
         1. In the layout category, set width to 100%
         2. Apply this class to second image and third images by using Add Class/ID and type in .image-fill and hit Enter.
         3. Do the same for the three thumbnail images
         4. File > Save and preview in browser (Now works nicely)
      7. There is some extra spacing on the left and right side of the page. Want images to stretch to the entire width of the page
         1. In the DOM (Windows > DOM) find the div just after the body tag (with class="container-fluid"). This is the container surrounding the whole page
         2. In Live view, go to the heads up display Add a New Class/ID, named it #wrapper. Add it to styles.css file
         3. In CSS Designer, highlight #wrapper
         4. In Layout set left and right padding to 0px
         5. File > Save and preview in browser. Now no spacing on left or right sides. It spans the whole width of the page.
      8. Make the thumbnail section a little narrower
         1. In the DOM select the div class="row" (right after the article tag)
         2. Insert > Bootstrap Components > Container > Wrap (Now we have some white space on the left and right)
         3. File > Save and preview in a browser