

Oversize Rodent Ball (ORB) Website

Overview

Scenario: You have been hired by ORB to build a website. The owners over ORB have already hired a design team to develop a high definition prototype (a very far along wireframe) but are now hiring a developer (you) to actually code the website. You will need to use your knowledge of CSS and HTML to build this page based upon the Screenshots provided and design document.

The Oversize Rodent Ball (ORB) is a new product created for humans. Like a hamster ball, but for people. Some benefits include:

- Protection from Covid-19
- Zombie-proof in case of apocalypse

SCREENSHOTS AND FIGMA OF FINISHED SITE **IMPORTANT**

Screenshots of the finished website are included in the zip file you downloaded! *

Mobile Screenshot: *mobile.png* (what the site should look like below 700px)

Desktop Screenshot: *desktop.png* (what the website should look like greater than 700px)

FIGMA of Desktop and Mobile View*

<https://www.figma.com/file/JyQCcqOwNJH13VTLFi6BHF/ORB?node-id=13%3A12>

Warning Do not try to export the HTML from figma, I will know if you do this.

You will need to reference the mobile and desktop screenshot to actually build this! It doesn't embed well in pdf so they are provided as png images (and a figma). When viewing the images please make sure to view them at actual size (sometimes your PC might try to zoom out).

Time Limit: 4 Hours to complete! (same as SIS exam period)

Submission: When ready to submit, zip your completed website and upload to the mycourses assignment dropbox -> Final Practical (may be at bottom of list). There is no need to upload anything to Solace for this practical!

How to zip a folder on a mac: <https://www.youtube.com/watch?v=euP3GCZn0sk>

How to zip a folder on a pc: <https://www.laptopmag.com/articles/how-to-zip-files-windows-10>

Your zip file should maintain the directory structure set up to build the site. When I unzip the site everything should just work without having to reorganize files. If in doubt and close to the deadline, post what you have at a minimum so there is proof of what you have completed.

Colors



Typography

Helvetica is the brand's most prominently used typeface. If Helvetica isn't available on the users machine, please substitute in the following order:

1. Helvetica
2. Arial
3. Sans-serif

Steps & Instructions to build the practical

IMPORTANT READ THIS: The steps in this practical are not as detailed as the Midterm Practical. The idea for this practical is you will see a finished website screenshot / wireframes (provided in this zip file), review the design document, and simply deliver the final working html / css website. However, some guidance will be provided; and important details about expectations are also contained below so please review the steps below regardless

1. If you are reading this you should have already downloaded the zip file. It contains instructions but also all of the starter files you need detailed below.

```
| -Zip File /  
|  
|   |  
|   | -index.html  
|   | -instructions-and-design-document.pdf  
|   | -desktop.png (IMPORTANT -> use these to build site)  
|   | -mobile.png (IMPORTANT -> use these to build site)  
|   |  
|   | -assets/  
|   |   |  
|   |   | -css/  
|   |   |   |  
|   |   |   | --styles.css  
|   |   |  
|   |   | -images/  
|   |   |   |  
|   |   |   | --logo.png  
|   |   |   | --panorama.png  
|   |   |   | --item1.png, item2.png, item3.png
```

2. A file structure like we have been using all semester has also been created within that zip file. Images, logos etc you will need have already been put in the assets/images folder. Take a moment to familiarize yourself with the contents of the zip you extracted.
3. Make sure you open up desktop.png and mobile.png to get a view of what you will need to build for the final website!
4. Open the index.html (on the root of the zip_ and style.css (inside the assets/css folder) document in your preferred text editor.
5. Link the style.css to the index.html by adding the appropriate code in the <head> area of the index.html. Use relative paths!
6. Give the page a title of "ORB - Oversized Rodent Ball" (hint: by title I mean what you see in the browser/window of the website).

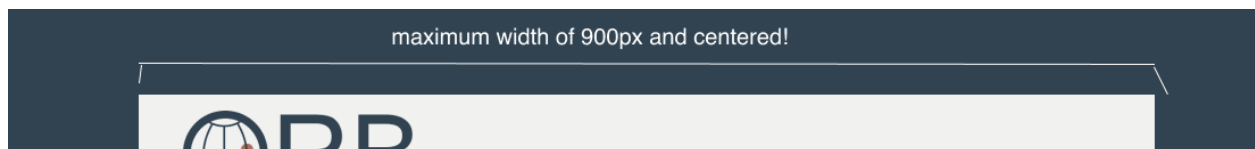
AT THIS POINT THE YOU WILL NEED TO BEGIN WORKING MORE ON YOUR OWN. The instructions will give pointers, but you are essentially converting the screenshot of the website to a working website!

Try to clone the image as best as possible; it doesn't have to be perfect; that is often impossible when converting from Figma to HTML, but get it as close as you can.

7. At this point you probably should start work on HTML structure.

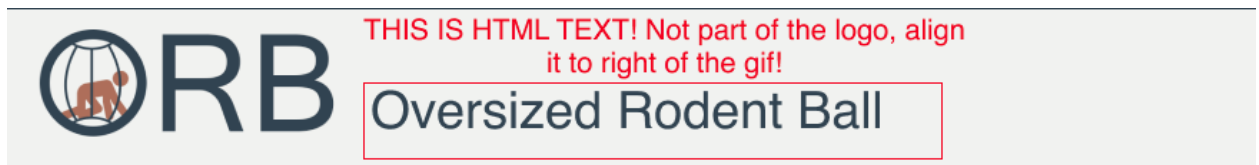
In the screenshot and figure below, you will notice that all content is in a centered container with a maximum width of 900px. The overall page background is that darkish blue color, whereas the container we put the content in has a light background.

It is suggested you use that centering content hack discussed in class to center the 900px container div. Your container should be able to shrink below 900px when the screen is shrunk, but not expand beyond 900px (there is a way we should all know by now to do this easily).



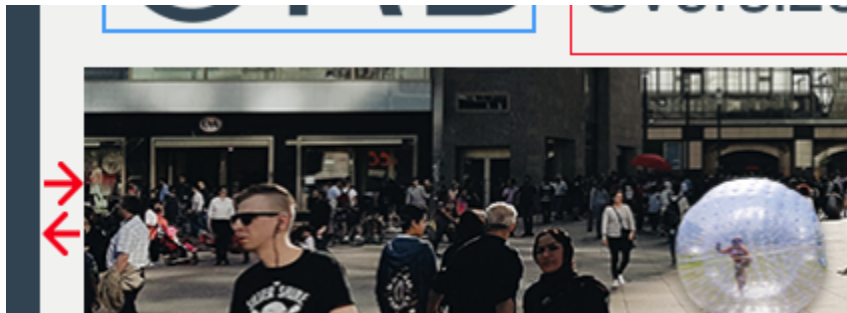
8. Be sure to use all the appropriate background colors, and font-families (hint: these are found in the design document section... The background of the main container is actually the off-white color found in the design document, not pure white!).

9. You will probably now want to start working on the content inside the centered container we created. Start by adding ORB logo (logo.png in assets/images/ folder) as shown in screenshots.
10. After adding the logo you should realize that we see the letters ORB, but not the full name as shown in screenshots of “Oversized Rodent Ball” This is because we want to just use text for this part for search engine optimization.
11. To the right of the ORB logo png, write out in html “Oversized Rodent Ball” in text. Try your best to style it as in the image. It doesn’t need to be 100% match but try to get it close.



NOTICE: We will need to tweak this in mobile sizes at some point. When the screen gets below 700px, or when things get too tight, we want the items to stack. We can always do this later but keep this in mind as it may have an impact on how we want to build this part.

12. Once the top part is looking good, add the panorama.jpg image to stretch across the entire website. Notice there is some white space between the edge of the container, and the panorama image in the screenshot below. Use your knowledge of CSS to accomplish this.



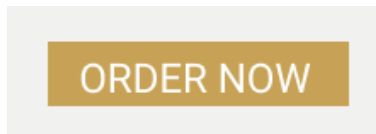
HINT: The website will also need to be responsive so we may just want to make the image responsive from the get go. If you need to look up how to make images responsive that is OK to do.

13. Now add the tagline below the panorama image and center the text. Once again do your best to style it like the image, using the colors and fonts specified in design document

“Not just for hamsters anymore! Our Oversized Rodent Ball (ORB) is the 21st century

innovation we have all been waiting for.”

14. Create the “ORDER NOW” link/button. This does not have to be a functioning link, but it should look close to the design provided. Use CSS to accomplish this.



15. Below the Order Now link/button we need to create our 3 column featured item area. I’d suggest using flex or grid for this, but other options can be used. The icon images are provided in the assets/images folder ready to be linked too using relative urls (item1.png, item2.png, and item3.png). Center and style the headers and text to match the screenshot as best as possible.

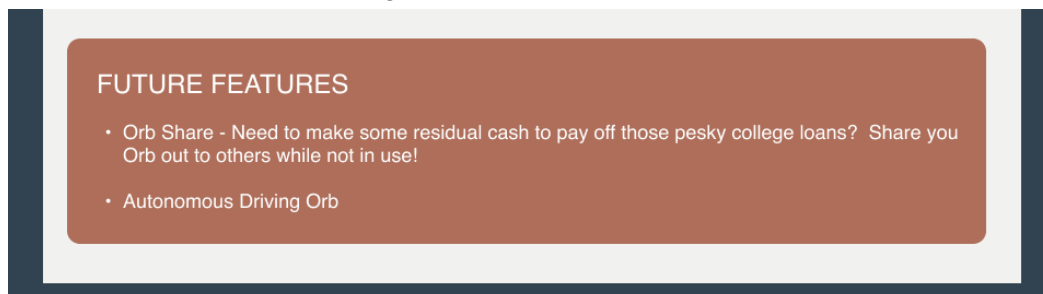
NOTICE: We will eventually need to make these items stack on top of each other on mobile sizes less than 700px. We can worry about this now or later.



Here is the text in case you want to copy and paste:

Zombie Proof In the event of an apocalypse, the ORB is the safest place to be	Covid-19 Protection Create a safe barrier between you and the general public	Fashionable The ORB is see through so you can still show off and be safe
---	--	--

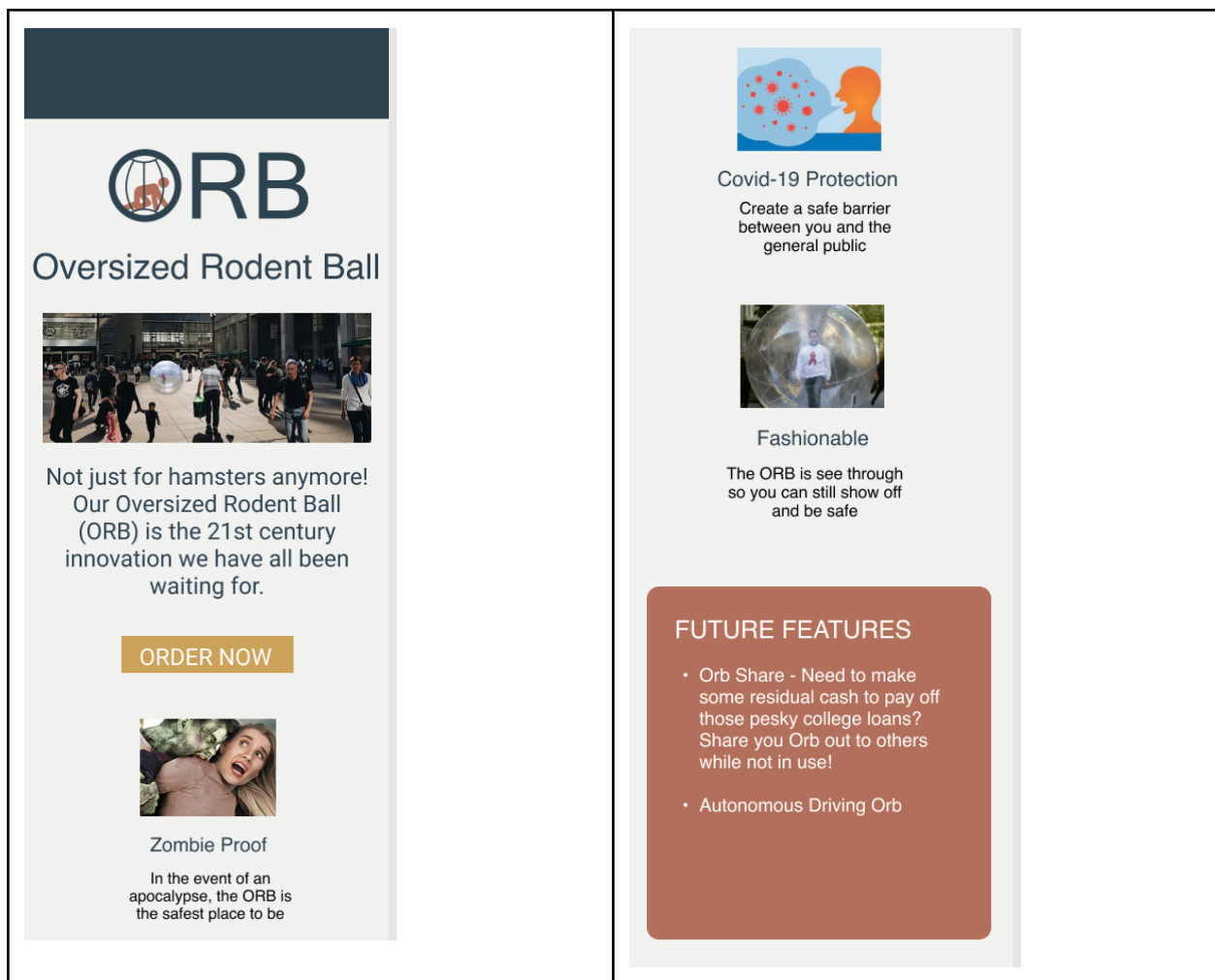
16. Now we need to build the Future Features Box.
- NOTICE: **we used rounded corners**? Be sure to do this for full credit.
 - List out the items using the appropriate colors



17. Hopefully by now our website is looking great on the desktop. Now we need to optimize for mobile.

AT THIS POINT YOU WANT TO CHECK the **mobile.png** screenshot found in the files

I am asking that you make a media query / breakpoint at no less than 700px. So when the screen is less than 700px, everything can stack, and when greater than 700px it will display with data in columns for the featured items. There is some leeway in this section, if you are able to make the site completely fluid or need to adjust the breakpoint a bit that is fine. The main thing I don't want to see is that horizontal scroll bar which can appear when you have content too wide for your device!



18. BE SURE TO VALIDATE YOUR CSS / HTML (hopefully some easy points)

19. Zip the folder with all your content (guide above) and submit to MyCourses within 4 hours!

Extra Credit Options

If time permits you may try to embellish the site in some ways. Afterall we hired you to make this site, maybe your expertise can help us sell more ORBs. Please keep the core features intact, but feel free to add more. These will need to be evaluated on a case by case basis but you can expect a couple extra points if compelling and well designed features are added.

1. Enhance the Future Features area in some way
2. Add some more useful embellishments to the site; this could involve adding more images, or design treatments to help convince people they should buy this!

If you do anything in hopes to get an extra credit point please tell me briefly what you did in the assignment area comment so I am sure to see it!

Rubric

I will assign points to each of the following list items to grade your overall project:

Overall Page

- Title given to the page
- CSS linked to correctly from index.html

Desktop Size Look and Feel

- All content contained in a 900px wrapper / container.
- The 900px container / wrapper is centered.
- Logo inserted correctly and works
- Text sits beside the logo.png that contains the full product name
- Panorama and tagline below are placed correctly (and text centered).
- Order Now link / button is added and styled correctly
- Features area (item1, item2, item3) contains the 3 images side by side with the sub heading and text description below
- Future Features added in a box below
- Rounded Corners used on the future features

Mobile Friendliness

Note: There can be some leeway when grading this, if the site performs while resizing it I am not so concerned about the breakpoint being at 700px exactly, but using this as a general guideline. HINT: try to avoid ever seeing the horizontal scroll bar appearing when shrinking your browser window down.

- The logo.png and full text logo stack into a single column below 700px (or is fluid enough to adjust according to screen size and space available).
- The panorama image is responsive, so as the screen shrinks below 900px, the panorama image also shrinks with the container.

- When the screen reaches mobile size (or 700px if in doubt) the 3 feature items with small image stack into a single column.
- The Future Features area also is responsive and doesn't cause a horizontal scroll bar.

Overall Design

- Colors: Proper Colors used throughout site
- Typography: Fonts specified per the specs
- Margin / Padding added appropriately

Validation:

- Error free HTML validation: <https://validator.w3.org>
- Error free CSS validation: <https://jigsaw.w3.org/css-validator/>