Introduction to Responsive Design

W3Schools introduces responsive design with the following description: "Responsive Web Design is about using HTML and CSS to automatically resize, hide, shrink, or enlarge, a website, to make it look good on all devices (desktops, tablets, and phones)"

In the following modules you will be introduced to new HTML elements, and CSS methods to create a site that does not only work on a desktop but also works well for all types of mobile devices. There are several methods available to create a mobile friendly site, this is the most basic and the basis for many of these other more complicated methods, such as Bootstrap.

# Instruction

Begin with freecodecamp.org (Responsive Web Design Cert**)** , watching the videos and completing the work that the video instructor demonstrates. Each section will have a drop box for the related content. If you followed the directions correctly you should have a file that functions the same way as his does.

There will also be quizzes throughout the modules that must be completed. Please be sure to complete all steps.

# Final Project

At the end of the video lessons you will be asked to build a site that is responsive and works on all devices. You will find details about the project at the end of section 8.

Section 1 – Basic HTML & HTML5

Complete the following steps on freecodecamp.org

1. Review the Resource – Responsive Design Mock-up PDF
2. Read the 1.1 Exploring Responsive Design Website
3. Complete the Discussion Board assignment
4. View videos 1.2 to 1.6 and follow the instruction within.

Section 2 – Basic CSS

Complete the following steps on freecodecamp.org

1. View videos 2.1 to 2.3 and follow the instruction within.
2. Complete the Fluid Layout Quiz

Section 3 – Applied Visual Design

Complete the following steps on freecodecamp.org

1. View videos 3.1 to 3.5 and follow the instruction within.
2. Complete Project 1 – Create Media Queries
3. Submit project 1 in the dropbox provided

Section 4 – Applied Accessibility

Complete the following steps on freecodecamp.org

1. View videos 4.1 and 4.2

Section 5 – Responsive Web Design

Complete the following steps on freecodecamp.org

1. View videos 5.1 to 5.5 and follow the instructions within.
2. Use the items within the Resources folder to complete Project 2 – Creating Demo Site.
3. Submit Project 2 in the dropbox provided.

Section 6 – CSS Flexbox

Complete the following steps on freecodecamp.org

1. View videos 6.1 to 6.9 and follow the instructions within.
2. Complete Project 3 – Adding CSS to Demo Site.
3. Submit Project 3 in the dropbox provided.

Section 7 – CSS Grid

Complete the following steps on freecodecamp.org

1. View videos 7.1 to 7.7 and follow the instruction within.
2. Complete Project 4 – Media Queries.
3. Submit Project 4 in the dropbox provided.

Responsive Web Design Final Project

# Project Description

After completing the responsive design modules, some practice is required. In this project you will work with a partner to develop a website for a fictional Non-profit organization. You will need to develop a Non-Profit organization which is currently in the process of helping the recent fire victims in California. Your job is to find information from other Non-profits to create a believable organizations website. The name of the Non-profit can be decided on between you and your partner. You will need to come up with a branding theme, logos, color scheme, font styling guide and anything else necessary to create a believable site.

The site should include a Home, Contact and a Current News page, along with two other pages of your choice.

As you are developing this site you should keep in mind those users who no longer have access to a computer. Most of these people will be accessing your site via phone or tablet. However, officials who are in search of aid and your services will be viewing your site from a desktop computer with the resolution of 1280 x 960, so you should develop the site to be viewable on any device!

## Additional Requirements:

The board has entrusted you with creative freedom and has allowed you to produce the content in anyway necessary, however they have a few specific items they would like to see on the site in order for it to be useful to as many people as possible.

1. You must select the name of the company. It must be appropriate and describe the non-profits purpose
2. You must develop a company logo
3. You must develop a clear and organized Navigation
4. Site must include a contact form
	1. Form must be validated before submission, using JavaScript
5. Another JavaScript element must be used within the site which adds additional interactivity
6. The site must be designed to be viewed on a computer, tablet or phone
7. There must be at least two paragraphs of content on each page, except the home page
8. There must be at least two images on each page, excluding the logo and/or banner
9. Each page must have a consistent look and feel
10. Each page must contain a footer

## Partnerships

You will be allowed to choose your partner, however, the partnership must be approved by Mr. Redcay. Please email him with your request. You may get started only after you have received approval of your partnership.

## Login

The company has provided you with a location to publish your site. The following login information should be used to upload your site. You will need to create a folder to save all of your html, css and js files. Your folder should be in all lowercase letters and contain no spaces.

Username: company@lcctc.org

Password: Company1207

Rubric

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Project: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Criteria | 0 | 1 | 2 | 3 | 4 | Feedback |
| Color SchemeVisually appealing - appropriate for audience - color represent business or location |  |  |  |  |  |  |
| TypographyFont enhances overall design – Easy to read – consistent throughout the site – Does not distract viewer |  |  |  |  |  |  |
| Overall LayoutVariety of elements used to create an appealing site – Appropriate/Clear Navigation – Logo location appropriate  |  |  |  |  |  |  |
| CreativityUnique uses of elements are present. No “canned” ideas – Colors used are unique to project |  |  |  |  |  |  |
| File ManagementFiles organized and properly named – uploaded to FTP properly |  |  |  |  |  |  |
| Functionality Site works as expected – Navigational links operate correctly |  |  |  |  |  |  |
| AppropriatenessImages and content are appropriate for audience and comply with DCTS policies  |  |  |  |  |  |  |
| Grammatical GuideCapitalization – punctuation - proper sentence structure – transitions |  |  |  |  |  |  |
| Done to SpecsAll project guidelines are present and easily identifiable  |  |  |  |  |  |  |

0 – Standards not met, 1 – Standard partially met, 2 – Standards largely met,
3 – Standards met, 4 – Exceeds Expectations

Comments: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_