



Web Dev 02

Responsive Web Design - CSS Flexbox and CSS Grid

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Summary: An introduction to designing responsive websites with HTML and CSS.



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Contents

I	Foreword	2
II	Introduction	3
III	General instructions	4
IV	Exercise 00: Responsive Web Design Principles	5
V	Exercise 01: CSS Flexbox	6
VI	Exercise 02: CSS Grid	7
VII	Exercise 03: Showcase Project	8
VIII	Exercise 04: Github	12
IX	Turn-in and peer-evaluation	13

Chapter I

Foreword



"You are a slow learner, Winston."

"How can I help it? How can I help but see what is in front of my eyes? Two and two are four."

"Sometimes, Winston. Sometimes they are five. Sometimes they are three. Sometimes they are all of them at once. You must try harder. It is not easy to become sane."

- *1984* by George Orwell

Chapter II

Introduction

In the basic HTML and CSS PDF, we learned how to make a **fixed** website. A fixed website is made of parts that don't change.

With all the difference devices out there, we should make websites with parts that respond to different screen sizes. This is where **responsive** design comes in!

Chapter III

General instructions

- Be prepared to explain how you built your showcase project. It will be part of your correction.

Chapter IV

Exercise 00: Responsive Web Design Principles

	Strrrrrreeeeeetchhhhhh
	Topics to study : Responsive Web Design Principles
	Files to turn in : Corrector will check the FreeCodeCamp website.
	Notes : n/a

Since users can view our website with different devices in various sizes, such as on a laptop, a gaming monitor, a mobile phone, or an iPad, we need to make our website adapt to the screen size. We use responsive web design to create different styles and layouts for different device sizes.

Complete all exercises in the "Responsive Web Design Principles" section on FreeCodeCamp.

Chapter V

Exercise 01: CSS Flexbox

	Flex your web design skillz!
Topics to study :	CSS Flexbox
Files to turn in :	Corrector will check the FreeCodeCamp website.
Notes :	

CSS Flexbox is a new responsive layout feature that will help arrange elements within a parent container.

Complete all exercises in the "CSS Flexbox" section on FreeCodeCamp.



Learn more about CSS Flexbox here:

<https://css-tricks.com/snippets/css/a-guide-to-flexbox/>

Chapter VI

Exercise 02: CSS Grid

	You've got to be gridding me
Topics to study :	CSS Grid
Files to turn in :	Corrector will check the FreeCodeCamp website.
Notes :	

Similar to Flexbox, CSS Grid is another responsive layout feature that will help arrange elements within a parent container.

Complete all exercises in the "CSS Grid" section on FreeCodeCamp.



Learn more about CSS Grid here:

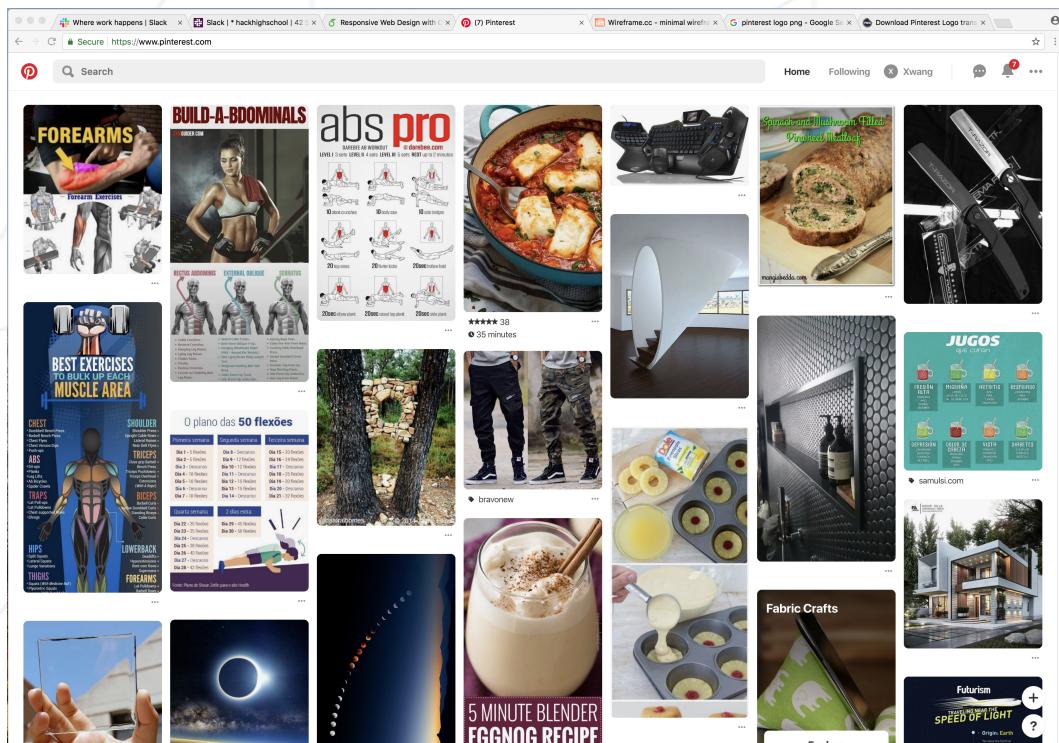
<https://css-tricks.com/snippets/css/complete-guide-grid/>

Chapter VII

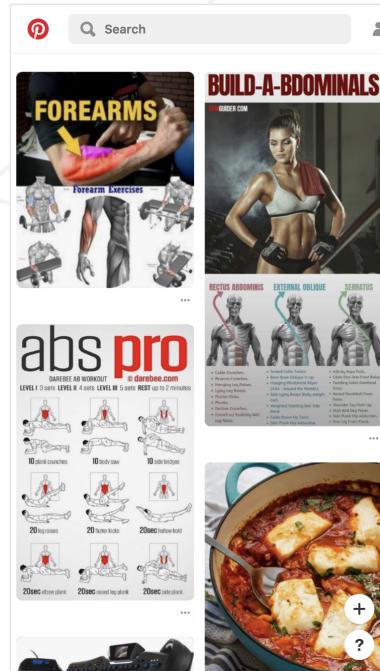
Exercise 03: Showcase Project

	Make it Pinteresting
	Topics to study : Build your own project
	Files to turn in : Your project folder should include index.html, style.css, and image files in "assets/" subdirectory
	Notes :

Create a responsive image gallery with a similar layout as [Pinterest](#).



desktop view

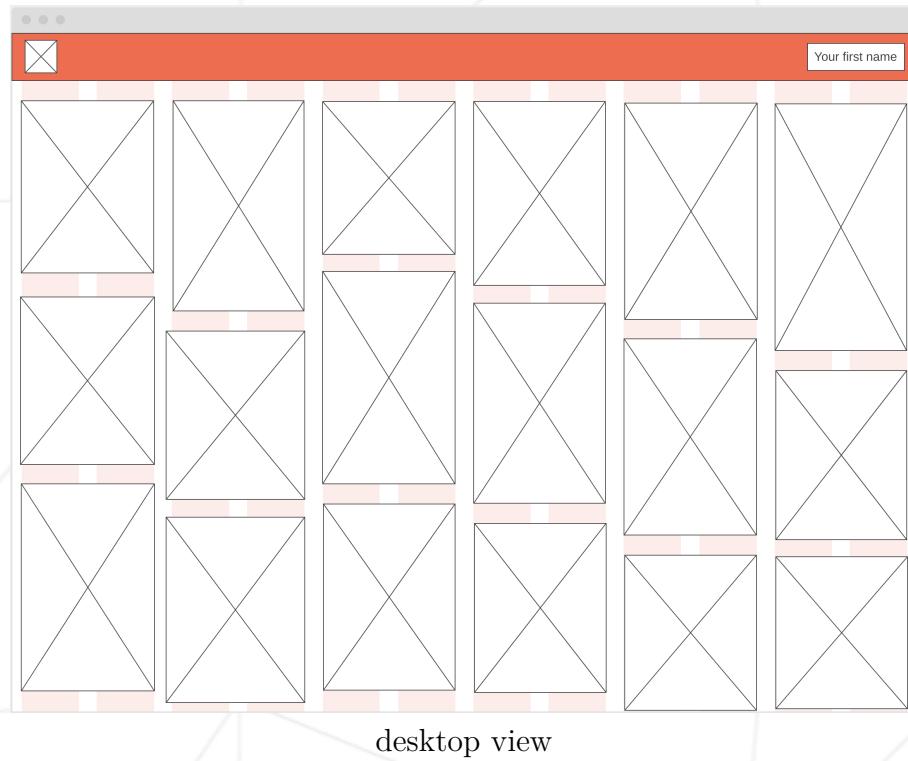


mobile view

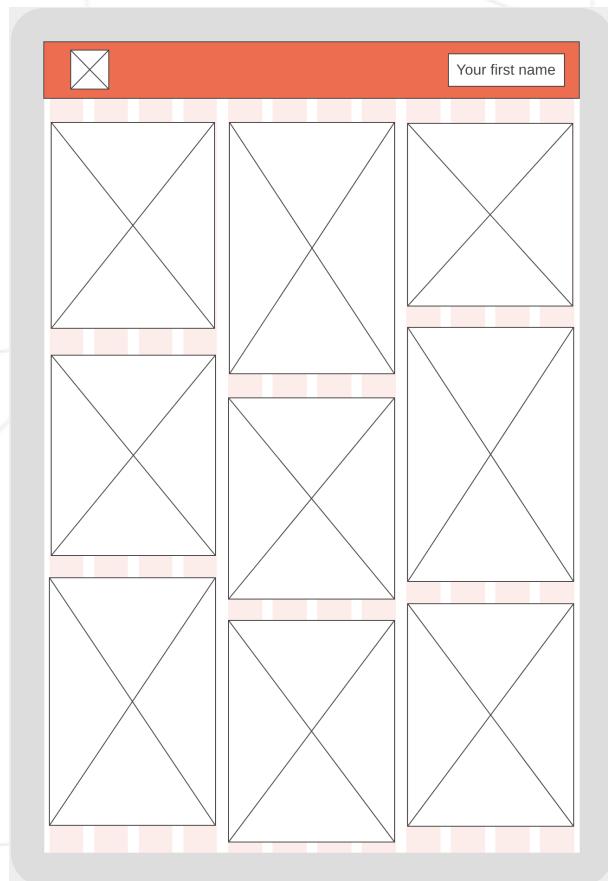
Requirements:

- The page should have a fixed navbar that will stick to the top of the screen as you scroll down.
- The navbar should have the included Pinterest logo on the left side, and your first name on the right side.
- The main body of the gallery should have 20 or more images that represent your personal interests.
- The images should have the same width, but their individual height is adjusted according to the original image dimensions.
- There should be two images per row on mobile view.
- There should be between three to five images per row on ipad view.
- There should be six or more images per row on desktop view.
- Navbar should have display set to flex; Main gallery container should also have display set to flex.

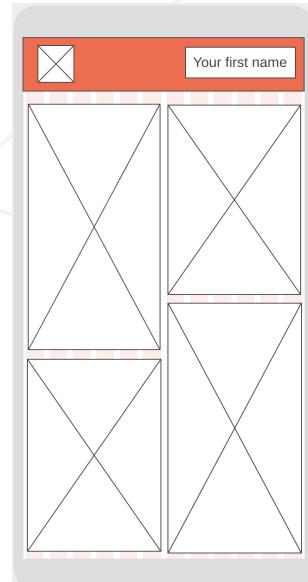
The final layout should be similar to the wireframes below



desktop view



ipad view



mobile view

Suggestions

1. Create a project folder along with files `index.html` and `style.css`. Create a subfolder named `assets/` for images
2. Use Visual Studio Code IDE to open the folder and start writing the HTML and CSS
3. Apply what you learned in FreeCodeCamp to create the structure of the website and style it
4. Use Chrome browser to test your website. You can access your website by opening the html file with Chrome or typing in its file path in the browser. If you are stuck, google first.
5. Be sure to make the website responsive. Use [Chrome Developer Tools](#) to help you view your website on different devices.

Chapter VIII

Exercise 04: Github

	Deploy on Github
Topics to study :	
Files to turn in : Your Github repository should include index.html, style.css, and image files in assets/ subdirectory	
Notes :	

1. You should already have a Github account.
2. Create a new public repository named `H2S_responsive_gallery`
3. Follow [instructions](#) on connecting your project to the new Github repository
4. Push your project onto the Github repository
5. Go to your Github repository settings, under "Github Pages", publish your project as a website. Follow the URL formatted as

`<username>.github.io/H2S_responsive_gallery`

to view website.

6. Create a `README.md` in the root directory of your project folder and copy the website URL into it. Follow this [guide](#).

Chapter IX

Turn-in and peer-evaluation

Check that all exercises in the previously listed FreeCodeCamp sections have been completed.

Check website is published on Github Pages.

Turn your source code in using your [42 Git repository](#). Only work present on your repository will be graded in defense.