**Section 2: Git Essentials**

Git -> Version Control System

Git Advantages

* History -> Which date which code added, track changes
* Collaboration -> Involve a team, update everyone in the team, git merge for us
* Feature branches -> separate branches for different tasks and then merge them to main branch

Git Vocabulary

* Project = **Repository (repo)**
* Working directory
* Staging (preparing, getting ready) = **control what gets committed (choose before commit)**
* Commit = **Gits way of saving**
* Push -> push from local repo to server (Github)
* Pull -> pull from server to local repo

To create a git repo -> **git init**

To see changes, if any -> **git status**

To add staging area -> **git add <file name>**

To save changes -> **git commit -m “commit message”**

To go back to last commit -> **git checkout -- .**

Get existing repo -> **get clone “web address”**

Create a GitHub repo -> I named it “**Git-a-web-dev-job-course**”

Clone course files from the brad’s repo-> **git clone https://github.com/LearnWebCod**

**e/travel-site-files.git**

Then, change the cloned file to github repo name you just created (**Git-a-web-dev-job-course**)

To see which repo in github the project registered -> git remote -v (this shows origin as brad’s)

This says the repo will be pushed to learnwebcode which is the repo we cloned

To change repo -> **git remote set-url origin** [**https://github.com/erol-eyupoglu/Git-a-web-dev-job-course.git**](https://github.com/erol-eyupoglu/Git-a-web-dev-job-course.git)

Then **git remote -v** shows -> origin https://github.com/erol-eyupoglu/Git-a-web-dev-job-course.git (fetch)

origin https://github.com/erol-eyupoglu/Git-a-web-dev-job-course.git (push)

after changing origin you can push the files to github server -> **git push origin master**

**General commands after a change:**

git add -A

git commit -m “commit message”

git push origin master

**Section 2: Intro to NodeJS & NPM**

Automation and Organization

Package Management

Install Node on server or local personal computer

* We will use Node.js to automate things in local computer

For example, we can create a html file and put code in it and show any error by using fs.

var fs = require('fs');

fs.writeFile(\_\_dirname + "/index.html", "<h1>html is great</h1>", function(error) {

if (error) {

return console.log(error)

} else {

console.log("Congrats")

}

})

Moreover, we can programmatically download and save an image file from internet using https or http packages (in this case it was https)

var https = require('https');

var myPhotoURL = 'https://hips.hearstapps.com/hmg-prod.s3.amazonaws.com/images/golden-retriever-royalty-free-image-506756303-1560962726.jpg?crop=0.672xw:1.00xh;0.166xw,0&resize=640:\*';

https.get(myPhotoURL, function(response) {

response.pipe(fs.createWriteStream(\_\_dirname + '/mydog.jpg'));

});

Using node, we can automate many things.

**NPM**

Initiate the npm packages -> npm init -y

Install packages loadash and normalize.css

* npm install lodash
* npm install normalize.css

to install all packages from the package.json file -> npm install

In the real world you'll usually want to use the newest version of a package that is available on NPM. However, to make it easier to follow along with the video lessons in this course I strongly encourage you to use the same versions of packages that I'm using. Here's how you can achieve that:

1. Within your project folder **delete** the node\_modules folder and also **delete** the package-lock.json file.
2. You'll see a downloadable file associated with this lesson that is named package.json. Download this file and replace the package.json file that is currently in your project folder with this newly downloaded file.  
     
   If you've already made it to the later chapters of this course and are just now circling back to this lesson you will have a **"scripts"** area in your existing package.json file; copy your existing **scripts** object code into your clipboard before replacing your package.json file so that you can paste your existing **scripts** area back into the file you download from this article. This way you don't lose the npm run dev and npm run build tasks you've already setup.
3. In your command line run npm install and be aware that it could take a few minutes because it is installing all of the packages that we'll need for the entirety of our Complex App.

**Section 4: Webpack Essentials**

Bundles your assets

Npm package

How to install webpack

* Create a folder ‘scripts’ in assets
* Create a new file in this folder ‘App.js’
* alert("helloooooooooo");
* open terminal in course path
* run the command -> npm install webpack webpack-cli –save-dev
* then create a file named exactly ‘webpack.config.js’ in course home dir
* const path = require('path')
* module.exports = {
* entry: './app/assets/scripts/App.js',
* output: {
* filename: 'bundled.js',
* path: path.resolve(\_\_dirname, 'app')
* },
* mode: 'development',
* watch: true
* }
* module.exports: this js object will be used to bundle,entry: which file to be bundled, output: bundled.js file will be created in path location, watch: after every change it will be bundled again,
* in package.json file modify like this (scripts added):
* {
* "name": "travel-site",
* "version": "1.0.0",
* "scripts": {
* "dev": "webpack",
* "test": "echo \"Error: no test specified\" && exit 1"
* },
* After config, run this command: npm run dev
* Add this in index.html after footer section
* <script src="bundled.js"></script>

Very recently PostCSS released a new major update to their package. They have changed the way we're required to configure their plugin inside our webpack.config.js file. Everything in the next video lesson is still accurate with one exception. The newest version of PostCSS requires us to nest our options inside an extra wrapper object called postcssOptions. For example this code from the following lesson:

{loader: 'postcss-loader', options: {plugins: postCSSPlugins}}

Must now be this instead:

{loader: "postcss-loader", options: {postcssOptions: {plugins: postCSSPlugins}}}

**CSS with Webpack**

Css autoprefixer -> adjusts the css code to web browsers like -moz-clomns…

* Create styles folder in assets and styles.css within it
* Load css from js ->
* import '../styles/styles.css'
* npm install css-loader style-loader –save-dev (as we changed the package.json file no need to re-install these)
* then go to webpack config file and add this
* module: {
* rules: [
* {
* test: /\.css$/i,
* use: [‘style-loader’,'css-loader']
* }
* ]
* }
* This allows for every file ends with .css, webpack will use css-loader to load and bundle it within bundled.js. style-loader will show the css in the page

Why we are loading CSS for JS???

In dev process, it is better in terms of speed and automation.

PostCSS

* Post-css loader installed with npm
* Change webpack config, post-css needs some additional options: loader, options, plugins -> which css properties we want to display
* use: ['style-loader', 'css-loader', {loader: "postcss-loader", options: {postcssOptions: {plugins: postCSSPlugins}}}]
* Add postCSSPlugins const to webpack config file
* const postCSSPlugins = [
* require('postcss-simple-vars'),
* require('postcss-nested'),
* require('autoprefixer')
* ]
* Then test the post css code in styles.css:
* $mainBlue: #2f5572;
* .large-hero {
* h2 {
* color: $mainBlue;
* }
* }
* This code is not a valid css code but because we modify postcss settings it became valid because webpack created a file for browsers to understand the code

By default, the css-loader will attempt to handle any images we reference in our CSS (e.g. background images, etc...). While this is great in certain situations, for our usage in this course we want to disable this and we'll manage our image files manually. With this in mind, when you list 'css-loader' in your **webpack.config.js** file you'll want to add an option to the end of it like this 'css-loader?url=false' instead.

For a complete reference, you can also simply use the **webpack.config.js** file I've added as a resource for this text lesson.

**Section 5: CSS Architecture**

Identify patterns in design

Rules to follow for creating class names and selectors

***File Architecture***

Go to app/styles and create a modules directory

Then create \_large-hero.css file (it starts with \_ which means it is a partial)

Then import it in the main css file:

@import 'modules/\_large-hero';

npm install postcss-import –save-dev

in webpack config file add this to postplugins array

require('postcss-import'),

create base folder and create \_global.css file and cut and paste the css code in styles.css

@import 'base/\_global.css';

Import normalize.css

@import 'normalize.css';

In html file, large-hero img file we want to position the following h1 h2 and p sections inside the img. So first create a div and put these texts inside it. After that give that div a class name = large-hero\_\_text-content

Create the css for targeting this new class. Add these

.large-hero {

position: relative;

}

.large-hero\_\_text-content {

position: absolute;

top: 0;

left: 0;

width: 100%;

text-align: center;

}

Absolute position and top 0 left 0 will place the text in the left upper corner of the image and then width 100% and text-align center will center **horizontally**

To center vertically:

top: 50%;

transform: translateY(-50%);

change top from 0 to 50% and transform: translate (-50%) – means to upper. translate will position an element vertically relative to itself

***Identify patterns in design***

We want to target h1 element in large-hero div.

One way to do it, .large-hero h1 {…} but it is not recommended

We will do it by using BEM principles

BEM -> **Block** (independent resusable part). **Element** (belongs to a block). **Modifier** (change to default state of object).

If you want to target an element belongs to block for example **large-hero**, it is **large-hero\_\_title**

For example, there is a button. If u want to modify its color you can create btn—orange. Or size, btn—large.

**BEM advantages**

Css selectors should target elements directly with classes

Move blocks around and reuse them

Blocks can be nested inside other blocks

Single responsibility

There is no reason to code a pattern more than once

Makes the relationship between HTML and CSS clear.

So we want to change styling of large-hero block’s h1 and h2 elements. First give them appropriate class names:

<div class="large-hero\_\_text-content">

<h1 class="large-hero\_\_title">Your clarity.</h1>

<h2 class="large-hero\_\_subtitle">One trip away.</h2>

Then design css

large-hero\_\_text-content {

position: absolute;

top: 50%;

transform: translateY(-50%);

left: 0;

width: 100%;

text-align: center;

}

.large-hero\_\_title {

font-weight: 300;

color: #2f5572;

font-size: 4.8rem;

}

.large-hero\_\_subtitle {

font-weight: 300;

color: #2f5572;

font-size: 2.9rem;

}

But we can nest them in block element (large-hero). & means block element which is .large-hero.

.large-hero {

position: relative;

&\_\_text-content {

position: absolute;

top: 50%;

transform: translateY(-50%);

left: 0;

width: 100%;

text-align: center;

}

&\_\_title {

font-weight: 300;

color: #2f5572;

font-size: 4.8rem;

}

&\_\_subtitle {

font-weight: 300;

color: #2f5572;

font-size: 2.9rem;

}

}

**PostCSS vs Sass: What are the differences?**

**PostCSS:** *Transform CSS with JS plugins*. PostCSS is a tool for transforming CSS with JS plugins. These plugins can support variables and mixins, transpile future CSS syntax, inline images, and more; **Sass:** *Syntactically Awesome Style Sheets*. Sass is an extension of CSS3, adding nested rules, variables, mixins, selector inheritance, and more. It's translated to well-formatted, standard CSS using the command line tool or a web-framework plugin.

***Complete Two Blocks***

Target p tag in large-hero, and give it a class names description

<p class="large-hero\_\_description">We create soul restoring journeys that inspire you to be you.</p>

Make text white and bigger

&\_\_description {

color: #FFF;

font-size: 1.875rem;

}

What is rem? It is relative to root of page, html

1.5rem means whatever the size of main html, multiply it with 1.5. browsers default size is 16px so 1.5rem is 24px in that case.

Make font-weight lighter and give text shadow, 10% visible

&\_\_description {

color: #FFF;

font-size: 1.875rem;

font-weight: 100;

text-shadow: 2px 2px 0 rgba(0, 0, 0, .1);

}

In the original file, after journeys the sentence goes down to a new line.

To achieve that give max-width to width value until journey (we create soul restoring journeys) which is app. 480 px

max-width: 480px;

now the text is left aligned. To fix that give left and right margin auto

&\_\_description {

color: #FFF;

font-size: 1.875rem;

font-weight: 100;

text-shadow: 2px 2px 0 rgba(0, 0, 0, .1);

max-width: 480px;

margin-left: auto;

margin-right: auto;

}

Buttons. Assume the button on the right top corner is default. Give that btn class.

Then create css file under modules and import it main css file

The blue file is repeated all over the page so define a variable to that. But first create a variables.css file under base folder. The import it in the main css file

$mainBlue: #2f5572;

Change blue color in title and subtitle (replace with variable)

Remove underline

text-decoration: none;

give padding to button. But make display inline-block so that parent and surrounding elements will be aware of that padding

.btn {

background-color: #2f5572;

color: #FFF;

text-decoration: none;

padding: 0.75rem 1.2rem;

display: inline-block;

}

0.75 rem will be top and bottom and 1.2rem will be left and right

In the template footer button file is orange so change it.

Give that in html file and give btn class as well as btn—orange. Since it is a modifier to the original btn we added 2 dashes.

<footer>

<p>Copyright &copy; 2019 Clear View Escapes. All rights reserved. <a class="btn btn--orange" href="#">Get in Touch</a></p>

</footer>

Again orange is a variable that will be used later so create it.

.btn {

background-color: $mainBlue;

color: #FFF;

text-decoration: none;

padding: 0.75rem 1.2rem;

display: inline-block;

&--orange {

background-color: $mainOrange;

}

}

So in the large-hero section there is a orange btn but it is bigger so create another modifier

<p><a class="btn btn--orange btn--large" href="#">Get Started Today</a></p>

And adjust css. Vertical padding is 1.1rem and horizontal is 1.9rem

&--large {

font-size: 1.25rem;

padding: 1.1rem 1.9rem;

}

**Section 6: Webpack timeout**

*For CSS&JS to update in the browser without full reload full (reload means refresh the page):*

Install webpack-dev-server through npm

In webpack.config file add this property

devServer: {

contentBase: path.join(\_\_dirname, 'app'),

hot: true,

port: 3000

},

Hot means it will watch the changes and refresh the page

So we delete the previous watch property:

watch: true,

in package.json change dev section to webpack serve

"scripts": {

"dev": "webpack serve",

"test": "echo \"Error: no test specified\" && exit 1"

},

Go to App.js file and add this

if (module.hot) {

module.hot.accept()

}

In this way webpack will update without the full reload. For example, if you choose a tag it will be still selected after update. If you reload the page it is gone. It is important in terms of speed and time.

*Webpack reloads the browser for us when we save a change to out HTML file):*

Add this in webpack.config, devServer section

before: function(app, server) {

server.\_watch('./app/\*\*/\*.html')

},

\*\* means any subfolder

But this requires full reload.

*View our site on any device connected to same wifi network as the computer we are working on*

Give host property to devServer

devServer: {

before: function(app, server) {

server.\_watch('./app/\*\*/\*.html')

},

contentBase: path.join(\_\_dirname, 'app'),

hot: true,

port: 3000,

host: '0.0.0.0'

},

Every webpack config file change requires to create a new npm run dev command

Which address we should type in mobile web browser to see localhost:3000 in our computer?

We need to find local IP address of the computer. If you go to google and type Ip address it is public Ip address not local

To find local IP address on MAC

Prefences > Network

It is. 92.168.2.208. for my MAC

On smartphone type that address followed by :3000 -> 92.168.2.208:3000

At that point, as we shifted to use webpack dev server now we can delete safely bundled.js file because webpack uses bundled.js file not in local but rather in the server. You can reach it by this url: localhost:3000/bundled.js

**Section 7: Mobile-first Essentials**

Mobile first means?

Responsive design: size and content optimized for different size screens

Why mobile first?

1. More traffic from mobile devices
2. Desktop first -> slow loading websites

So best way is mobile > tablet > laptop/desktop

CSS for mobile-first perspective:

Title element, baseline is according to mobile, so lets change the

font-size: 4.8rem;

to

font-size: 1.1rem;

install postcss-mixins package

go to webpackconfig file and require mixins

const postCSSPlugins = [

require('postcss-import'),

require('postcss-mixins'),

require('postcss-simple-vars'),

require('postcss-nested'),

require('autoprefixer')

]

**Mixin is reusable code.**

In base folder create \_mixins.css file

@define-mixin atSmall {

@media (min-width: 530px) {

@mixin-content;

}

}

Import mixin file in styles.css

@import 'base/\_mixins.css';

Then change media query in \_large-hero.css file with this (4.8 rem is just an example for demonstration purpose. We will change it later)

@mixin atSmall {

font-size: 4.8rem;

}

Apply the other sizes as well:

&\_\_title {

font-weight: 300;

color: $mainBlue;

font-size: 1.1rem;

margin: 0;

these rules (before applying mixins settings for different screen sizes) are the baseline which means for very very small screens and then we grow

@define-mixin atSmall {

@media (min-width: 530px) {

@mixin-content;

}

}

@define-mixin atMedium {

@media (min-width: 800px) {

@mixin-content;

}

}

@define-mixin atLarge {

@media (min-width: 1200px) {

@mixin-content;

}

}

Here we adjusted the small, medium and large screen sizes

And then define the sizes in the \_large-hero css file

&\_\_title {

font-weight: 300;

color: $mainBlue;

font-size: 1.1rem;

margin: 0;

@mixin atSmall {

font-size: 2rem;

}

@mixin atMedium {

font-size: 3.2rem;

}

@mixin atLarge {

font-size: 4.8rem;

}

}

This way we begin with very tiny screens (1.1rem) when size reaches 530px it becomes 2 rem and so on.

*Responsive Images*

Big screen suited images do not need to be the same for mobile. No need for 2000px maybe 500 px is just fine.

Image crop -> in small screens no need to show all the image, for example like in the case of lecture example, a square image only showing dog’s face is fine. Send different image files for different screens

Responsive Image Situations

1. **Art direction and cropping (picture element)**

Use <picture> element, within that use <img> tag and start with smallest image

<picture>

<img src="assets/images/hero--smaller.jpg" alt="Coastal">

</picture>

Then use <source> element and media query to target width sizes

<picture>

<source srcset="assets/images/hero--large.jpg" media="(min-width: 1380px)">

<source srcset="assets/images/hero--medium.jpg" media="(min-width: 990px)">

<source srcset="assets/images/hero--small.jpg" media="(min-width: 640px)">

<img src="assets/images/hero--smaller.jpg" alt="Coastal">

</picture>

1. **Image resolution and file size (faster load times)**

Here cropping is fine, download size matters.

Just use img element with srcset attribute and give all the images with width info

If some screens allow high resolution we can give images accordingly

<picture>

<source srcset="assets/images/hero--large.jpg 1920w, assets/images/hero--large-hi-dpi.jpg 3840w" media="(min-width: 1380px)">

<source srcset="assets/images/hero--medium.jpg 1380w, assets/images/hero--medium-hi-dpi.jpg 2760w" media="(min-width: 990px)">

<source srcset="assets/images/hero--small.jpg 990w, assets/images/hero--small-hi-dpi.jpg 1980w" media="(min-width: 640px)">

<img srcset="assets/images/hero--smaller.jpg 640w, assets/images/hero--smaller-hi-dpi.jpg 1280w" alt="Coastal view of ocean and mountains">

</picture>

For example, the first source element if image has 1920 pixels width uses the hero-large.jpg file.

*Tips for responsive Images*

There is -i version of all images for the course. You can use these to check width and size

How to check high dpi version without having the one? chrome developer tools -> select responsive and click 3 dots and show device pixel ratio -> dpr section comes -> select 2 to see high dpi images

**Section 7: Mobile-first Essentials**

Give some space for large-hero text content. First create a wrapper class:

<div class="large-hero\_\_text-content">

<div class="wrapper">

<h1 class="large-hero\_\_title">Your clarity.</h1>

<h2 class="large-hero\_\_subtitle">One trip away.</h2>

<p class="large-hero\_\_description">We create soul restoring journeys that inspire you to be you.</p>

<p><a class="btn btn--orange btn--large" href="#">Get Started Today</a></p>

</div>

</div>

Then create a \_wrapper.css file in modules folder and define that space. Also import in styles.css

.wrapper {

padding-left: 18px;

padding-right: 18px;

}

In original image file there is a blue line at the bottom of landing page. So give a border-bottom in the landing page. Give class class="large-hero\_\_image

<picture>

<source srcset="assets/images/hero--large.jpg 1920w, assets/images/hero--large-hi-dpi.jpg 3840w" media="(min-width: 1380px)">

<source srcset="assets/images/hero--medium.jpg 1380w, assets/images/hero--medium-hi-dpi.jpg 2760w" media="(min-width: 990px)">

<source srcset="assets/images/hero--small.jpg 990w, assets/images/hero--small-hi-dpi.jpg 1980w" media="(min-width: 640px)">

<img class="large-hero\_\_image" srcset="assets/images/hero--smaller.jpg 640w, assets/images/hero--smaller-hi-dpi.jpg 1280w" alt="Coastal view of ocean and mountains">

</picture>

Define class="large-hero\_\_image in large-hero class

border-bottom: 10px solid $mainBlue;

&\_\_image {

display: block;

}

By default, web browsers treat images inline elements, like line of text. This way it gives some space for letters to be read. We changed it to block to remove that space

Moving to our-beginning div

There is space between large-hero block and our-beginning

Again create a page-section css file in modules and give 4.5rem vertical and 0 horizontal padding

.page-section {

padding: 4.5rem 0;

}

Also integrate wrapper class to our-beginning

<div id="our-beginning" class="page-section">

<div class="wrapper">

<h2>The first trip we planned was our own.</h2>

<h3>Ever since, we&rsquo;ve been working to make travel better for everyone.</h3>

<img src="assets/images/first-trip.jpg" alt="Couple walking down a street.">

<img src="assets/images/our-start.jpg" alt="Our founder, Jane Doe">

<h2>Here&rsquo;s how we got started&hellip;</h2>

<p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, <a href="#">quis nostrud exercitation</a> ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.</p>

<p>Duis aute irure dolor in <strong>reprehenderit in</strong> voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.</p>

<p>Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum velit esse cillum <strong>dolore eu fugiat.</strong></p>

</div>

</div>

In the original file, width of the content is around 1200 px so give the wrapper max-width of that size and center it with margin

.wrapper {

padding-left: 18px;

padding-right: 18px;

max-width: 1200px;

margin-left: auto;

margin-right: auto;

}

So this wrapper class it a reusable block so next part also have it. So use it by wrapping it with div having class wrapper.

**It is important to identify patterns and use reusable blocks.**

*Headline Build*

Give a headline class:

<div id="our-beginning" class="page-section">

<div class="wrapper">

<h2 class="headline">The first trip we planned was our own.</h2>

<h3 class="headline">Ever since, we&rsquo;ve been working to make travel better for everyone.</h3>

<h2 class="headline">Here&rsquo;s how we got started&hellip;</h2>

Design style according to template:

.headline {

font-weight: 300;

font-size: 2.875rem;

color: $mainBlue;

}

Give the first element a modifier class

<h2 class="headline headline--centered">The first trip we planned was our own.</h2>

<h3 class="headline headline--centered">Ever since, we&rsquo;ve been working to make travel better for everyone.</h3>

Change font color and size for h3 element (again calculate the size from template by selecting height by mouse). Also, it is 2 lined in the template so to do that give a max-width

&--small {

font-size: 1.875rem;

}

&--narrow {

max-width: 500px;

}

After that it is not centered so give margin left and right auto

&--narrow {

max-width: 500px;

margin-right: auto;

margin-left: auto;

}

Upper h2 and h3 should be lighter in terms of font weight

&--light {

font-weight: 100;

}

And make certain words bold by strong tag.

Give a small margin to h2 and large margin to h3. Here we used em not rem. When using text, it is better to use em for margin since it is relative to text itself.

A lot of modifiers??? Modifiers are better because -> it is open for new changes. Otherwise with new requests, it will be complicated to create new classes like, .main-heading, .sub-heading etc.

&--b-margin-small {

margin-bottom: 0.5em;

}

&--b-margin-large {

margin-bottom: 1.6em;

}

In the template the below img is centered so lets do that. We created wrapper element for that purpose before

<div class="wrapper">

<img src="assets/images/first-trip.jpg" alt="Couple walking down a street.">

</div>

But we need to change its max-width. Calculate the width from the template and it is 976px. So lets add a modifier

<div class="wrapper wrapper--medium">

<img src="assets/images/first-trip.jpg" alt="Couple walking down a street.">

</div>

Add max-width change to wrapper

.wrapper {

padding-left: 18px;

padding-right: 18px;

max-width: 1200px;

margin-left: auto;

margin-right: auto;

&--medium {

max-width: 976px;

}

}

For mobile there is too much gap between our-beginning div and upper section. Reduce that in mobile screens add a mixin

page-section {

padding: 1.2rem 0;

@mixin atMedium {

padding: 4.5rem 0;

}

Reduce the size of h2 and h3 for mobile size

.headline {

font-weight: 300;

font-size: 1.9rem;

color: $mainBlue;

@mixin atSmall {

font-size: 2.875rem;

}

&--small {

font-size: 1.2rem;

&mixin atSmall {

font-size: 1.875rem;

}

}

And also img has a padding in mobile screens because it resides inside another div. go to wrapper and cancel that 18px padding like this ()

.wrapper {

padding-left: 18px;

padding-right: 18px;

max-width: 1200px;

margin-left: auto;

margin-right: auto;

&--medium {

max-width: 976px;

}

.wrapper {

padding-left: 0;

padding-right: 0;

}

}

This says nested div that has a another wrapper class will have no padding

*Reusable Column Layout*

2 column layout -> img and text

Group img and text in a div has class of row

Then give two divs for img and text -> img will be 1/3 of the width and text will be 2/3

.row {

&\_\_4 {

float: left;

width: 33.33%

}

&\_\_8 {

float: left;

width: 66.66%;

}

}

Then we need to clear out floats because otherwise parent div will not know how tall will be the height. To do that, create a after pseudo element that will generate an empty content. Define a mixin for that ans use it in .row

@define-mixin clearfix {

&::after {

content: "";

clear: both;

display: table;

}

}

The clear property specifies on which sides of an element floating elements are not allowed to float.

Img and text are so close to each other. Give some padding

<div class="row row--gutters">

<div class="row\_\_4">

<img src="assets/images/our-start.jpg" alt="Our founder, Jane Doe">

</div>

<div class="row\_\_8">

<h2 class="headline">Here&rsquo;s how we got started&hellip;</h2>

<p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, <a href="#">quis nostrud exercitation</a> ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.</p>

<p>Duis aute irure dolor in <strong>reprehenderit in</strong> voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.</p>

<p>Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum velit esse cillum <strong>dolore eu fugiat.</strong></p>

</div>

&--gutters > div{

padding-right: 65px;

}

We need to select every child of row class div so ‘> div’ will take care of that

But after applying this padding text goes to next line because width is over 100%. To prevent this, apply **box-sizing: border-box** rule. It is better to apply that for whole page so go to global.css and add this

\* {

box-sizing: border-box;

}

The CSS box-sizing property allows us to include the padding and border in an element's total width and height.

But now we do not want text to have 65 px padding, only image should have it. So to fix that select parent div, gutters, and give -65px margin. This negative right margin will expand the div and later we will compensate for that by applying padding-right 65px.

&--gutters {

margin-right: -65px;

}

But now this expanded 65 px will protrude from the wrapper div. To fix that, go to wrapper div and add overflow hidden.

.wrapper {

background-color: green;

overflow: hidden;

padding-left: 18px;

padding-right: 18px;

max-width: 1200px;

margin-left: auto;

margin-right: auto;

&--medium {

max-width: 976px;

}

.wrapper {

padding-left: 0;

padding-right: 0;

}

}

This way we will still have right padding but we do not show it. At the same time we do not break the column layout which has 65px padding from both right and left.

For mobile screens 2 column layout is too much so we want to have a 1 column

.row {

@mixin clearfix;

&--gutters {

margin-right: -65px;

}

&--gutters > div{

padding-right: 65px;

}

@mixin atLarge {

&\_\_medium-4 {

float: left;

width: 33.33%;

}

&\_\_medium-8 {

float: left;

width: 66.66%;

}

}

}

*Attention to Detail*

Go to videos for this section. These changes include small details.