

# SPECTRAL TUTORIAL

Or how I stopped worrying and learned to love templates.



This is a 16 step guide on how to make a responsive html5 template a website.



You will also learn how to save your project and all the changes you make to Github.

## Things to set up:

1. Download "spectral\_starter\_code.zip" from blackboard.
2. Get your favorite text editor out.

- We recommend **Visual Studio Code**



or **Sublime Text 3**



3. Open a web browser, we recommend **Google Chrome**



4. Open `index.html`



Open `index.html` in your text editor. You will see a lot of code. Don't worry, it's all there for a reason. You will be able to see the results of your changes in the browser. Remember to **Refresh** your browser often to make sure you are looking at your progress.

Use **developer tools** to inspect your work.



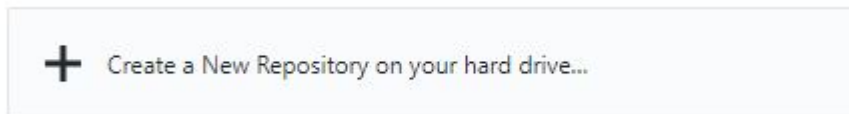
Get comfy. Let's begin.



## 1) Create a new repository

Open **Github desktop** and Sign up then sign in to Github, make sure to choose the free account

Choose **Create a New Repository on your hard drive**



Set the name to be "**Spectral-Alpacas**" and the description to "**HTML5 alpaca website**" Choose a suitable location on your network drive and click **Create repository**.

Create a new repository

Name  
Spectral-Alpacas

Description  
HTML5 Alpaca website

Local path  
C:\Users\t-garne\Desktop\github-tutorial\github Choose...

☐ Initialize this repository with a README

Git ignore  
None

License  
None

Create repository Cancel

**You have Just Created a new local repository!**



## 2) Add the starter code to the repository

Click **Show in Finder** (show in Explorer on a PC), this will take you to where the repository is stored on your computer.

Show in Finder

Open the repository folder.

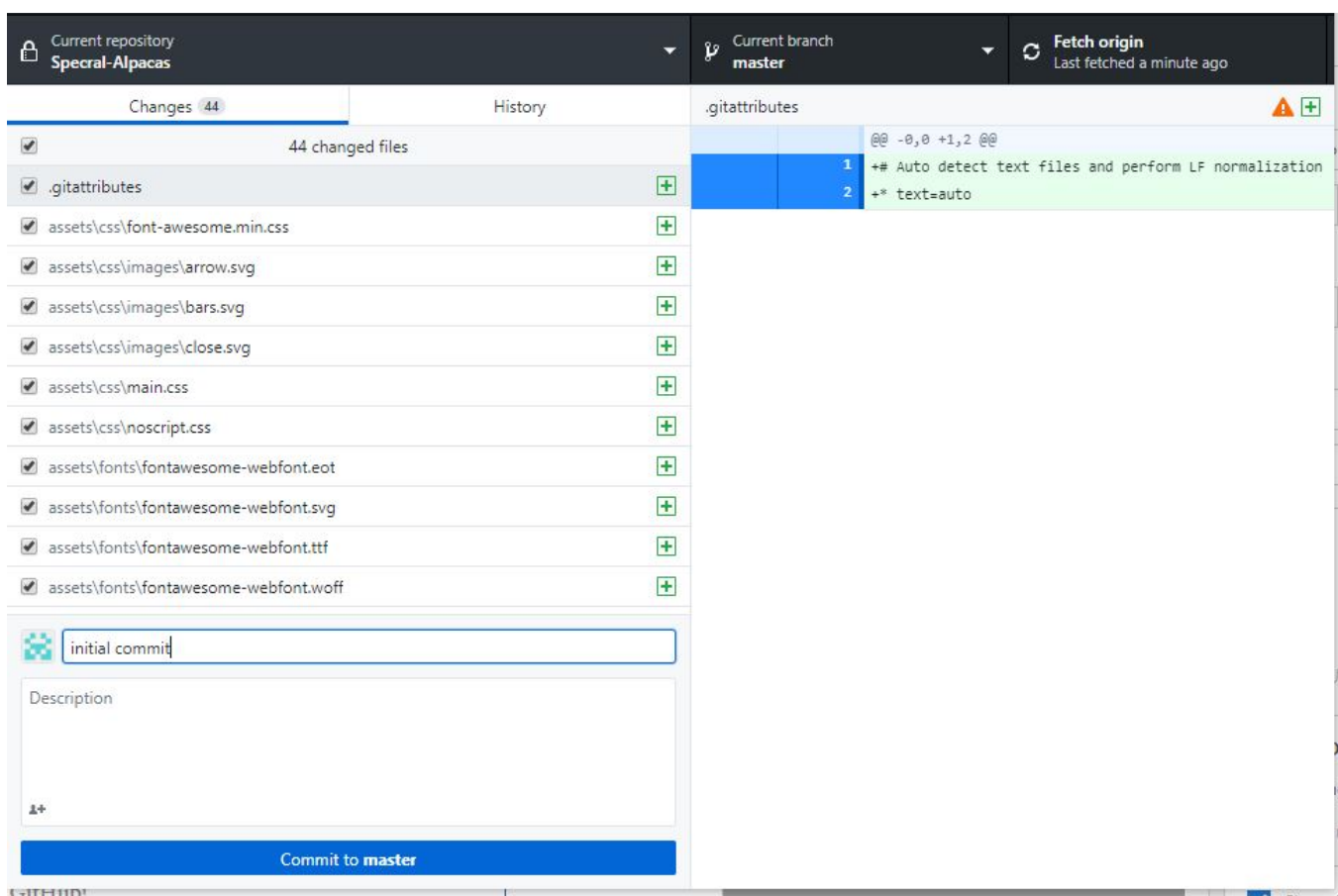
Unzip the file you downloaded from blackboard and add the contents to this folder.

On **Github desktop** you should now see a list of all the files you have added.

On the left you you see the files.

On the right you will see what has changed in each of those files.

Write **"initial commit"** in the summary field and press **Commit to master**



You have now committed your code to your local repository!



### 3) Publish your repository

Press **Publish Repository**



After a few seconds your repository will have been uploaded

**You have now published your code to your remote repository on GitHub!**

Click **View on Github**



This will open a browser window and show you your repository on Github.com

At the moment it will be an exact copy of what is in your **local repository**

This is where you can **clone** a copy of your repository. This allows you to work on it from different machines.

you can also share this page with others



#### 4) Edit the title

Phew, We can now start editing the code.

Open **index.html** on your web browser.

Drag the Spectral-Alpacas folder into your text editor and open up **index.html**

CHANGE THE `<title></title>` NAME

`<title>Spectral by HTML5 UP</title>`

TO

`<title>ALPACAS FOREVAH</title>`

In the `index.html` file, you will see the `<title></title>` tag. This changes the text in the tab title of your website.

**save.**



#### 4a) Commit changes

Now look at GitHub desktop, it will show you what you have changed.

This is only a small change but we will add it to our repository

CHANGE THE SUMMARY MESSAGE

Update index.html!

TO

**Updated title**

Press **Commit to Master** to add this change to your local repository

Commit to **master**



## 5) CHANGE THE `<header id="header" class="alt">`

Locate where Spectral is located in the header and how the code works around it when a user scrolls.

`<header id="header" class="alt">`

CHANGE

`<h1><a href="index.html">Spectral</a></h1>`

TO

`<h1><a href="index.html">Lamas Are Cool</a></h1>`

save.

Refresh your browser and find what has changed (HINT:you may need to scroll)



## 5a) Commit changes on Github desktop

CHANGE THE SUMMARY MESSAGE

Update index.html!

TO

Changed H1 contents

Commit this change to your local repository as you did before

Commit to **master**



## 6) CHANGE THE <div id="menu"> LOCATED INSIDE THE HEADER

We are going to make a few text changes to the header in the html. Look at the menu before you make the changes. Then look how it is structured here. <li> is a list item,

<a href= is a link tag. This template has two separate pages, which will look at soon. When there is a "#" it is called a local anchor, which means the link goes nowhere.

First let's make a few more list items. Right now we will link them to the generic page template. We aren't going to worry about the Sign Up and Log In page.

```
<div id="menu">
  <ul>
    <li><a href="index.html">Home</a></li>
    <li><a href="generic.html">Generic</a></li>
    <li><a href="generic.html">Generic</a></li>
    <li><a href="generic.html">Generic</a></li>
    <li><a href="elements.html">Elements</a></li>
    <li><a href="#">Sign Up</a></li>
    <li><a href="#">Log In</a></li>
  </ul>
</div>
```

Let's change the names of the pages.

```
<div id="menu">
  <ul>
    <li><a href="index.html">Home</a></li>
    <li><a href="generic.html">History</a></li>
    <li><a href="generic.html">Fleece</a></li>
    <li><a href="generic.html">Friends</a></li>
    <li><a href="elements.html">Elements</a></li>
    <li><a href="#">Sign Up</a></li>
    <li><a href="#">Log In</a></li>
  </ul>
</div>
```

save.

Find what has changed on your browser.



Commit this change to your local repository.

Commit to master



## 7) CHANGE THE <section id="banner">

Have a look at how this section works. We are going to personalise this a bit and make it more on concept.

```
<section id="banner">
  <div class="inner">
    <h2>Spectral</h2>
    <p>Another fine responsive<br /> site template freebie<br />
    crafted by <a href="http://html5up.net">HTML5 UP</a>.</p>
    <ul class="actions special">
      <li><a href="#" class="button primary">HTML5UP</a></li>
    </ul>
  </div>
  <a href="#one" class="more scrolly">Learn More</a>
</section>
```

Lets change the content

```
<section id="banner">
  <div class="inner">
    <h2>ALPACAS RULE</h2>
    <p>This is a template<br />that is all about Alpacas<br />
    made by<a href="put your wordpress url here">Your name here</a>.
    <br />And with thanks to</p>
    <ul class="actions special">
      <li>
        <a href="https://html5up.net/" class="button primary">HTML5UP</a>
      </li>
    </ul>
  </div>
  <a href="#one" class="more scrolly">Learn More</a>
</section>
```

Along with changing this text, try adding the text before putting in the last <br />. Save and refresh and then move the webpage around to see how the text moves on the page. Then add the <br /> and do the same. What happens when you add the tag?



Commit this change to your local repository.

Commit to **master**



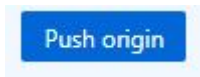


## 8) Publish changes

You have now made a few commits to your local repository.

However, this means that your remote repository is now out of sync

Go to GitHub desktop and press **Push origin**



Your local changes have now been sent to the remote repository where they are safely stored

To see the files on github.com click "view on Github"





## 9) Edit Section One

Commented out is the `<!-- One -->` where we will start to make a section of our website.

Add a title in the `<h2>`

With Alpacas, you have a friend indeed. Here are some fun facts about our `<br />`South American Camelid friends

(keep the `<br />`, and try to add another. Move it around to see how it interacts with the page.)

`<h2>With Alpacas, you have a friend indeed.<br /> Here are some fun facts about our South American Camelid friends</h2>`

Add text in the `<p>` tag

`<p>From their water and flame resistant fleece to their ability to guard <br />chickens, alpacas are excellent, ancient, domesticated animals</p>`

We will remove the icons in this section. You can comment them out using `<!-- -->`

`<!-- <ul class="icons major"> ... </ul> -->`

Or you can simply delete the entire section.

save.

See what has changed on your browser.



Commit this change to your local repository.

Commit to **master**



## 10a) Revert

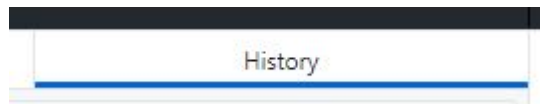
### We have made a mistake...

Looking back at the changes we have made, we realized that in section 3 we accidentally used the word Lamas!

As this is a small issue it would be easy to just change the text and then commit the changes BUT there is another way.

We can remove individual commits from our repository. This can be very useful if you have published a large change that you now want to undo.

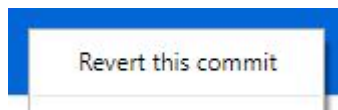
On github desktop click on the history tab



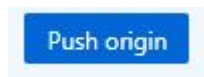
Scroll down and select the commit you made when you added "**Lamas are cool**".

It should be called "**Changed H1 contents**"

Right click and select **Revert this commit**



Go back to the Changes tab and press **Push origin**



If you refresh your browser, it should now display the old header



## 10b) Change the header (again)

Now go back to the header at the top and change the H1 tag again

CHANGE

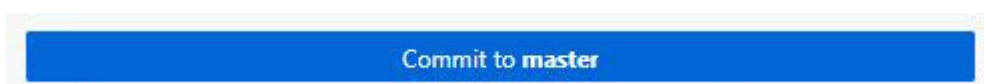
`<h1><a href="index.html">Spectral</a></h1>`

TO

`<h1><a href="index.html">Alpacas Are Cool</a></h1>`



Commit this change to your local repository.





## 11) Add content in Section Two

Section two is labeled:

```
<section id="two" class="wrapper alt style2">
```

Every section that has an image with paired text is under

```
<section class="spotlight">
```

There are currently Three spotlight sections, So let's add two more `<section class="spotlight">` sections before we add text (and eventually images)

Because these elements are inside the `<section id="two" class="wrapper alt style2">` you must take the entire `<section class="spotlight"></section>` Copy and paste that twice.

Add the these lines, to the `<h2>` spotlight titles, one per section

Alpacas are ancient

Alpacas grow high quality `<br />` hypoallergenic fleece

Alpaca fleece is flame resistant

Alpaca fleece comes in `<br />` a rainbow of hues

Alpacas are excellent `<br />` guards for chickens

Then add the following text in the `<p>` tags

Alpacas were domesticated by the Incas more than 6,000 years ago and raised for their exquisite fleece. Due to its quality and all of its superhero characteristics, alpaca fibre was reserved exclusively for the elite and nobility.

Alpaca fibre is much like sheep's wool, but warmer and not itchy. It is lacking in lanolin, which makes it hypoallergenic and also allows it to be processed without the need for high temperatures or harsh chemicals in washing.

Alpaca fibre meets the standards of the U.S. Consumer Product Safety Commission's rigid testing specifications as a Class 1 fibre for use in clothing and furnishings.

Alpaca fiber comes in 22 colors and hundreds of shades, from white to light rose gray to dark fawn, in addition to the blends that can be made from those, thus minimizing the need for pollution-intensive dyeing.

Alpacas have been used as chicken and sheep guards for over 17 years in Australia. They quickly become very protective of their flocks and will chase foxes and other predators away if they try to approach.

save and see what has changed on your browser.



Commit this change to your local repository.

Commit to master



## 12) Replace images in Section Two

We want to replace the images in the 5 spotlight sections

In the images folder we currently have 3 images that are the correct size

pic01.jpg  
pic02.jpg  
pic03.jpg

We have five images to replace.

On blackboard there are five alpaca images (**spotlight\_images.zip**).

What you need to do is open the original images **pic01.jpg**, **pic02.jpg** and **pic03.jpg** in an image editor

Confirm they are the same size as each other and the new alpaca images.

Place the alpaca images in the same folder as the original images

Change the names of the images on **index.html** to match the alpaca images

e.g.

REPLACE

```

```

WITH

```

```

Do this a total of 5 times.

save and see what has changed on your browser.



Commit this change to your local repository.

Commit to **master**



Press **Push Origin** to push the changes to your remote repository

Push origin



### 13) Comment out un-needed section

We don't want everything in this template, therefore we are going to remove the next section.

**delete or comment out all of section 3**

**FROM**

**<!-- Three -->**

**TO**

**<!-- CTA -->**

If you delete it but in future change your mind and need it back again, you can revert the change like you did in section 10 to undo the delete.

This is the reason you make sure you add an appropriate summary message each time you commit, so you can find that commit later if you need to.



On Github desktop change the summary message and commit.

**CHANGE THE SUMMARY MESSAGE**

**Update index.html!**

**TO**

**Deleted section three**

Commit this change to your local repository.

Commit to master



## 14) Call to Action

This is an area where you can use a button or buttons to make links to motivate.

Replace the content of the `<h2>` and `<p>` tags with:

`<h2> Give the Gift of an Alpaca to help end hunger`

`<p> By buying alpaca gift donations for charity, you can provide a struggling family with a lifetime of opportunities. Your donation will provide an alpaca to a family in need, along with training and education in its care.`

Change the `activate` button to `Donate`

Change the `Learn More` button to `Heifer Project`

The donate button change:

```
<li><a href="" class="button fit primary">Donate</a></li>
```

```
<li><a href="https://www.heifer.org/campaign/end-hunger-poverty-donation.html"
class="button fit primary">Donate</a></li>
```

The Heifer Project change:

```
<li><a href="" class="button fit">Heifer Project</a></li>
```

```
<li><a
href="https://www.heifer.org/gift-catalog/animals-nutrition/gift-of-an-alpaca-donation.html"
class="button fit">Heifer Project</a></li>
```

Then head over to the `elements.html` and find the Buttons. Grab a button and paste it under the two buttons, just to say you did.



Add an appropriate summary message

Commit this change to your local repository.

Commit to master



## 15) banner.jpg

So right now we have been dealing with a gradient background as the top image and then again at the bottom. This is the .jpg called **banner**

This is a “responsive image”, and isn’t coded in the html like the previous images we replaced. It is located in the css. The nice thing about a template is that we don’t need to do the work to make this image responsive. As long as we play by the templates rules, the work is already done for us.

If you do a search in the **main.css** you will see **banner.jpg** show up in about 12 places. It is a background-image in the css and has a small amount of opacity on it (**rgba. a being alpha — or opacity**).

For the moment we won’t get into the calculating of images, and will simply replace this image. I will have further reading on the subject in the suggested reading section on blackboard.

Find an image that is at least **1800x1280 @ 72dpi**.

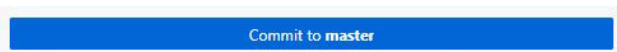
[www.pexels.com](http://www.pexels.com) has lots of free stock images.

Rename this image as **banner.jpg** and save over the gradient.

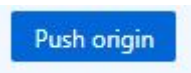
If you choose to rename, you must go through your documents and change it in your code.



Commit this change to your local repository.



Press **Push origin** to send the local changes to your remote repository.







## **16) Alpaca website finished**

Well, there you have it. We have a brand new website about alpacas, ready to go. For this tutorial, we simply dealt with the html, focusing on some aspects that you might encounter when you work on your own html template.

Have a look around in the main.css file and see if you can make changes to update the website for more personalisation.



You have also successfully used Git and Github to save your work to a local repository on your computer and pushed it to a remote repository on Github.

If you now need the code on another machine you can now get all you source code from Github.



## **16a) Extra challenges - Create another new repository**

Go to <https://html5up.net/>

Pick a template and download it

Add the template to a new repository on github

Make some new commits and publish your changes to your github account



## 16b) Extra challenges - Fork an existing repository

Forking takes a copy of someone else's repository, this is useful as it allows you to work on your own copy of the code base and publish those changes to your copy own Github repository.

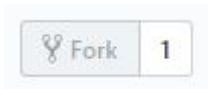
To Fork a repository, first find one.

I have another html5 template on my account.

go to:

<https://github.com/uwetom/HTML5up-dopetrope>

Press fork



If you are logged in, Github will now create a copy of this repository under your account.

On Github desktop you can now clone that repository down to your local machine

**Go to File -> Clone a repository**

**Click on the Github.com tab**

**Select the repository you want to clone and check the local path**

**Press Clone**

You can now work on your own copy of the repository and push it to your account on Github



## 16c) Extra challenges - Clone repository on a different machine

If you want your repository on a different machine, you can do the following:

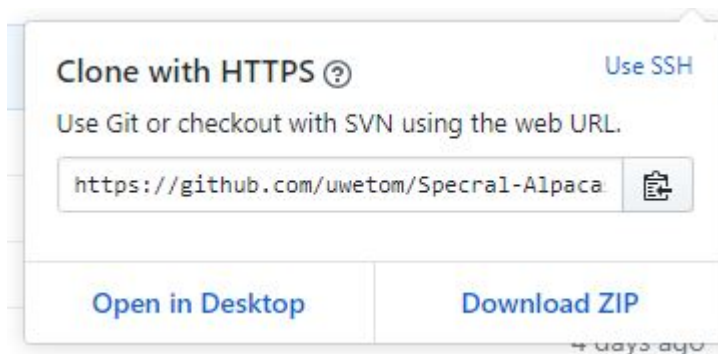
Go your page on Github.com

Find the repository you want to clone

Click Clone or download

A green rectangular button with the text "Clone or download" and a small downward-pointing arrow.

Choose open in Desktop



Press Clone

You should now have a local copy of the repository

If this is your repository you should be able to push to it as normal