

# How to set up Your own blog & Web Site

## Freely hosted with GitHub Pages

*Digital Product edition*

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This document explains all of the steps to take when creating a static web site using the free hosting at Github Pages.

The site that we build can be a blog or just an information web site. We will use a template that styles the site making sure that it is responsive to different screen and device sizes.

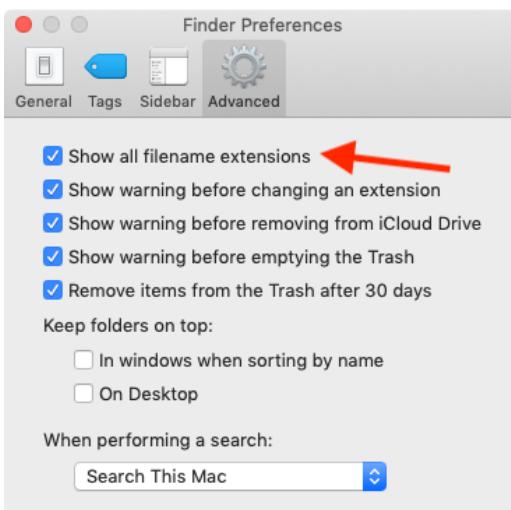
You will learn how to set the site up and configure with your own branding. Further, more complex styling can be achieved, but for this we need to have some knowledge of HTML and CSS.



## Step 1. Getting the Software required

### Before we begin:

It really helps if you can see the extension to a file.  
Set this up in the Finder preferences.

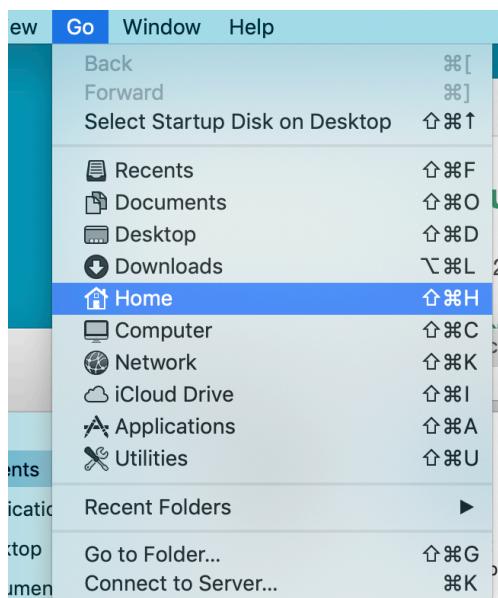


You will only need the application called *Atom* and to help you get the correct settings **I am providing you with a distribution ([www.publisha.org/resources/atom.zip](http://www.publisha.org/resources/atom.zip))** package.

This will create an **atom** folder which you need to place inside your **Home** folder.

Note: If you use Safari as your browser then the zip file will unpack into your downloads folder.

From the Finder use **Go** to find your Home folder. Read the **readme.txt** file that comes inside this zip file.



## Installing Atom

1. In your Home folder (use **Go > Home**) create a new folder and name it **Applications** (note the capital **A**). - you may have already created an Applications folder.
2. Drag the **Atom.app** into this Applications folder.
3. Drag the **for\_home\_folder.zip** file into the home folder
4. Double click this file to unpack - this creates a **hidden** folder called **..atom** (but you won't see it).

You can view hidden files by using **SHIFT-CMD full-stop** on the keyboard.

The **Atom** program comes ready built with the following packages that will help you write posts for your blog.

- tool-bar
- markdown-writer
- toolbar-markdown-writer
- Word count
- zen (this will provide a distraction free interface)

Now that you have the software installed you can sign up for the free web site at github.

## Step 2. Setup Github

### We are going to set up a free account on [github.com](https://github.com)

Naming the account (**your username**) is important (although you can change later) because this will become part of your website URL.

For example, if you name the account **MyLoveofBooks** then the web site will become **myloveofbooks.github.io**. Not all names will be available and yours may be rejected if it is already taken.

Please remember your username and password or keep somewhere safe.

Choose a **Free** account and go through the various steps although you can skip the questions about your interests. You will also need to verify your email address. You can use your Brookes email address but you don't need to and - you can change this at any time, after all, this web site is your forever even after you leave Brookes.

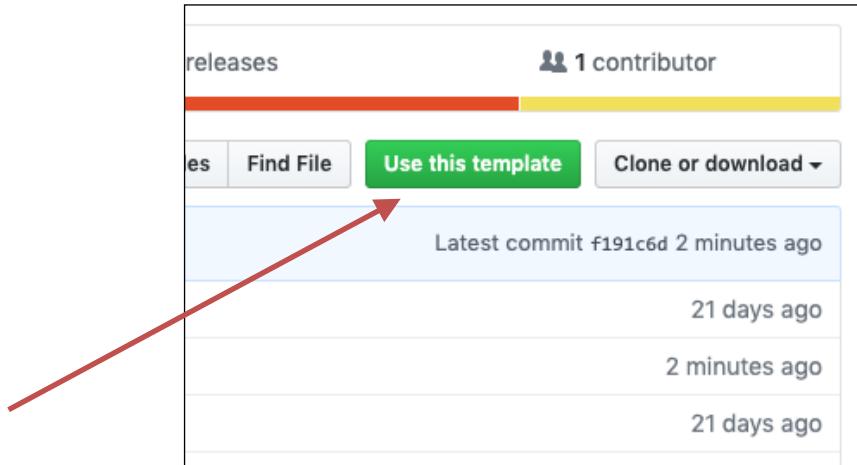
Optionally you can edit your profile and add an avatar image.

The image shows the GitHub sign-up form. It consists of three input fields: 'Username', 'Email', and 'Password'. Below the 'Password' field is a note: 'Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more](#)'. At the bottom is a large green 'Sign up for GitHub' button. Below the button is a small note: 'By clicking "Sign up for GitHub", you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails.'

## Now you are signed in to GitHub

Once you are signed in to Github, go to the following URL:

<https://github.com/publisha/digitalproduct/>



Use the template link to receive the repository in your own github account. Make sure that you choose the **Public** option. You will be asked to name the repository.

## Naming Your Repository

Name the repository using lowercase letters but use the same as your GitHub owner name

Create a new repository from student\_site  
The new repository will start with the same files and folders as [publisha/student\\_site](#).

Owner: ChrisAtBrookes / Repository name \*: chrisatbrookes.github.io

Great repository names are short and memorable. Need inspiration? How about [supreme-goggles](#)?

Description (optional):

**Public**  
Anyone can see this repository. You choose who can commit.

**Private**  
You choose who can see and commit to this repository.

**Create repository from template**

**This is important: You need to name the repository `username.github.io` where `username` is the name of your username or owner name but in lowercase letters.**

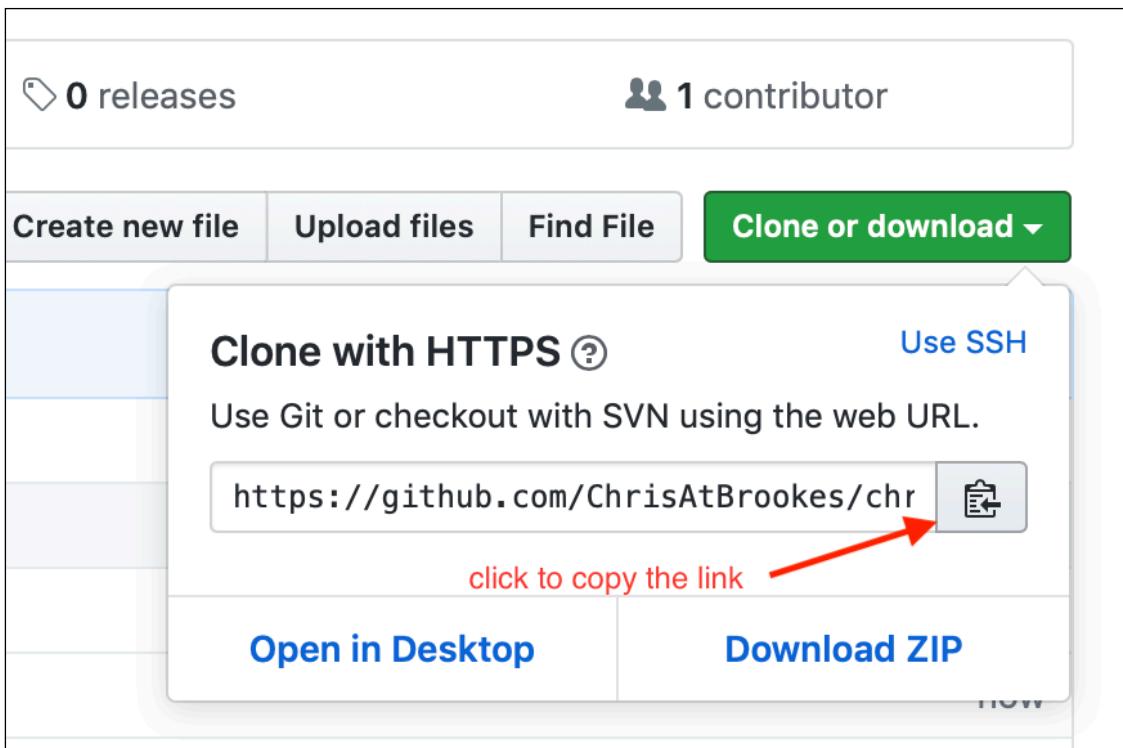
You should now have a copy of the template web site in your github account.

This will be the URL of your site.

Although it is always possible to edit the files directly on the github site, there is a much better way! We can get a local copy to be edited on our computer.

### Step 3. Getting a local copy

Select the repository just created and locate the button labelled `Clone or download`. Once you click this, you need to copy the URL (the button to the right of the URL field will copy this for you).



**Now open Atom**

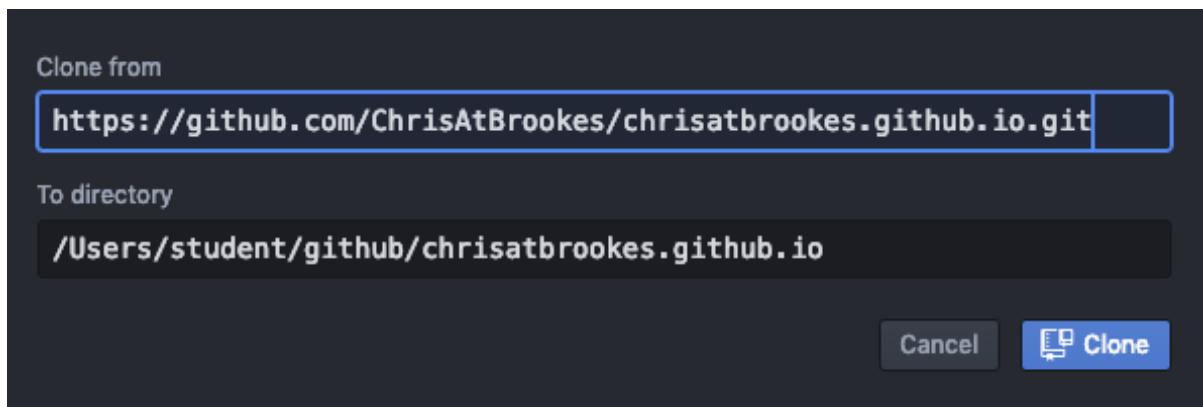


You should see a set of icons at the bottom of the window.

The icon at the far right end looks like this:



Click this and a panel appears for us to paste in the URL. This operation is known as cloning the repository..



Here is the clone window. Paste the contents of your clipboard (you just copied the link right?) into the top box.

In the 'To directory' box the default will be to place the copy into a github folder inside your home folder. **You cannot change this.**

**Note:** Before you finish setting up, you could move the complete web site folder out of the **github** folder to your **Creative Cloud** folder. That way, you can find it on any of the computers that you are signed into.

You must take the whole folder named **yoursite.github.io**

Close the Atom window and locate the github folder inside your Home folder. Now drag the folder called **yoursite.github.io** to a location on your **Creative Cloud** space.

**Note:** We don't recommend that you keep your files on Google Drive, because you may find that changes you make will not be recognised or will take a long time to synchronise.

You can set the Atom software up on your own computer, although the instruction above are only for the MAC.

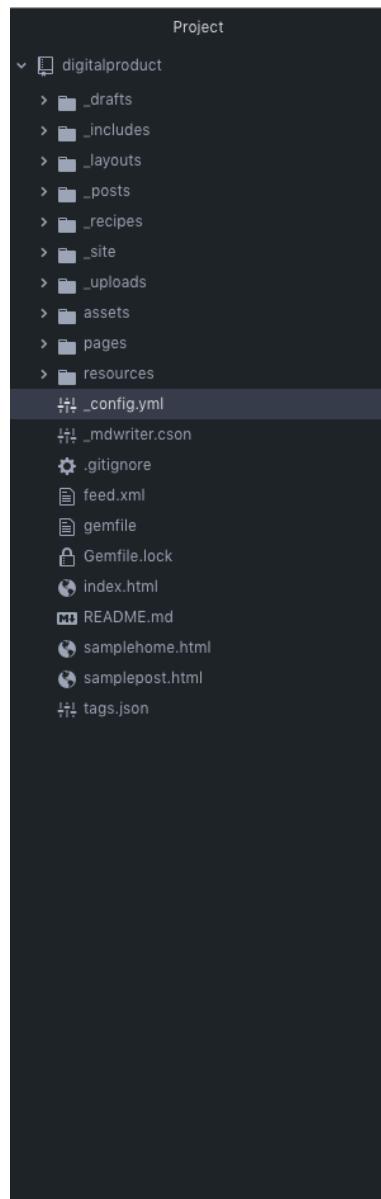
I can help anyone who wishes to install this on their own computer - MAC or PC.

## Step 4. Configuring your site

Before you make your web site live and post new articles, you need to edit the configuration file with your own details. The file you must edit is:

### `_config.yml`

The file itself has comments so it should be self explanatory but here follows the important changes that you must make:



```
Project
  digitalproduct
    _drafts
    _includes
    _layouts
    _posts
    _recipes
    _site
    _uploads
    assets
    pages
    resources
    _config.yml
  _mdwriter.json
  .gitignore
  feed.xml
  gemfile
  Gemfile.lock
  index.html
  README.md
  samplehome.html
  samplepost.html
  tags.json

  _config.yml

30   values:-
31   ... layout: recipe
32 # SITE CONFIGURATION-
33 baseurl: '' #leave this alone-
34 url: "https://yoursite.github.io" #change this to yours-
35 title: My name or organisation # site's title-
36 description: "A website with blog posts and recipes" # used by search
  * engines-
37 ...
38 # SITE-SPECIFIC CONFIGURATION-
39 # Change these 2 images for your own site-
40 ...
41 avatar: assets/img/face.jpg
42 favicon: assets/favicon.ico
43 ...
44 # Your blog on the home page can be arranged as a grid-
45 ...
46 gridlayout: false # change to true if you want grid layout-
47 ...
48 # Header and footer text-
49 # Change this text to your own-
50 header_text: My blog and my recipes-
51 ...
52 recipiecollection: Your recipe collection-
53 ...
54 # find an image for your own home page and put it into the images folder-
55 header_feature_image: /uploads/pages.jpg
56 recipe_bookcover: /uploads/bookcover.jpg
57 ...
58 twitter_username: #change to your own twitter account-
59 lang: en_gb-
60 # change the following to your name or site name-
61 footer_text:-
62 ... "Copyright 2019 My name"-#
63 ...# Icons-
64 ...# If you have any of these accounts add them in here-
65 rss: false # Make sure you created a feed.xml with feed.xml layout-
66 email_address: # Full email address, e.g. "sam@example.com"-#
67 facebook:-
68 flickr:-
69 google_plus:-
70 instagram:-
71 linkedin: # Full URL-
```

## Site configuration

Please make the following important changes before attempting to use the student blog.

Configure as your own website in the file called `_config.yml`:

Change **yoursite** to the username you chose for GitHub. In other words, the url will be the repository name prefixed with **https://**

## Meta and Branding

Meta variables hold basic information about your site which will be used throughout and as meta properties for search engines, browsers, and the site's RSS feed.

Change these variables in **\_config.yml**

Variable	Placeholder	Make yours
url:	https://yoursite.github.io	Change this to your url
title:	My name or organisation	Name of website will appear top left on your pages
description:	A website with blog posts and recipes	Short description, primarily used by search engines
avatar:	assets/img/face.jpg	This can be changed to your own picture or a logo optionally
favicon	assets/favicon.ico	Change to reflect your brand
header_text	Me and my blog	Yours to change
header_feature_image:	/uploads/pages.jpg	You should create a different image to replace this picture This image needs to be <b>no</b> smaller than 1800 pixels wide.
recipe_book_cover	/uploads/bookcover.jpg	Replace this with your own book cover
footer_text	Copyright 2019 My name	Put your name or organisation in here

You can also add your social media links such as Instagram, Twitter, Facebook etc.

You also need to edit the placeholder **tags url** in the file called **\_mdwriter.cson**. This is at **line 34** in that file. This will make it easier to select and re-use tags for your posts.

**urlForTags: 'https://yoursite.github.io/tags.json'**

## Step 5. Adding and Editing Content

Writing to your blog involves using the Markdown language and this will then be automatically be converted to HTML for the web site. You can learn about Markdown by viewing the Markdown Guide on the web. (see Further Reading)

There are many writing apps that use Markdown but we are using Atom with a user-friendly toolbar that makes structuring your content easy..

### **There are 2 types of pages in your site:**

#### **Posts**

You can post articles or blog posts and these will be dated so that they appear in date order, on the home page, the latest at the top. You will find a sample post in the `_posts` folder and you can duplicate this or click on the icon at the bottom left of the Atom window.



Each post has it's own page but the extract will appear on the home page. The extract is the first paragraph of your text. Placeholders for the page metadata will be included for you to edit.

The number of post extracts that appear on the home page can be configured in the `_config.yml` file (the default is 5 posts with a link to the previous 5 etc.)

The posts themselves are files that will automatically be generated inside the `_posts` folder.

#### **Pages**

You can create other pages for special (non-dated) content and, as long as you save them inside the pages folder, they will automatically generate a menu item at the top right of your site.

Apart from the **About** page described below, you can also create any page that you like to add to your site and, thus, a menu item. Examples could be a CV, or a Project page, or even a gallery of your photos.

#### **The About page**

This is the one page ready for you to edit. This page needs to be edited to contain information about yourself or what you want this site to do!

Editing this page will be a good way for you to get used to the way to edit and create pages using **Markdown**.

If you want to create another page, you can duplicate the *About* page so that you can see what the structure needs to be.

#### **Markdown**

Markdown is a way to write for a web site that uses simple structure and markup that will then be converted to **HTML**. It is useful to understand how **Markdown** works, but actually, when we use Atom, the elements can be selected from the toolbar.

Here are some examples of what the Markdown syntax means.

```
## Heading level 2
### Heading level 3
This is **bold** text.
This is *italic* text
```

## YAML metadata

At the top of each page or post there will always need to be some metadata to control certain aspects of the page when it is converted to HTML and then included in your site. When you create a post with Atom, the metadata is added automatically, but you need to edit this/

This metadata is enclosed within the 2 groups of hyphens. Here is an example.

--

```
layout: post
title: Here is a sample blog post
date: 2019-10-19
published: true
header_feature_image: _uploads/tomatoes.jpg
caption: "Juicy Tomatoes"
tags:
  - Journalism
  - Life
  - Food
--
```

Notice that the header\_feature\_image does NOT have the leading slash.

Some of this metadata is generated automatically when you create a new post (the date for example).

You will also need to edit this metadata to confirm that the post is ready to be published; change from **published: false** to **published: true**. When the page is set to published: false it won't appear on your live site.

## Page image

We will describe how you can add images to your posts and pages later, but all content can also have a **header\_feature\_image** and this image will appear at the top of the page, with the post heading set against it. You will need to place this image into your **\_uploads** folder and then provide the link to it in your metadata. The header\_feature\_image does NOT have the leading slash.

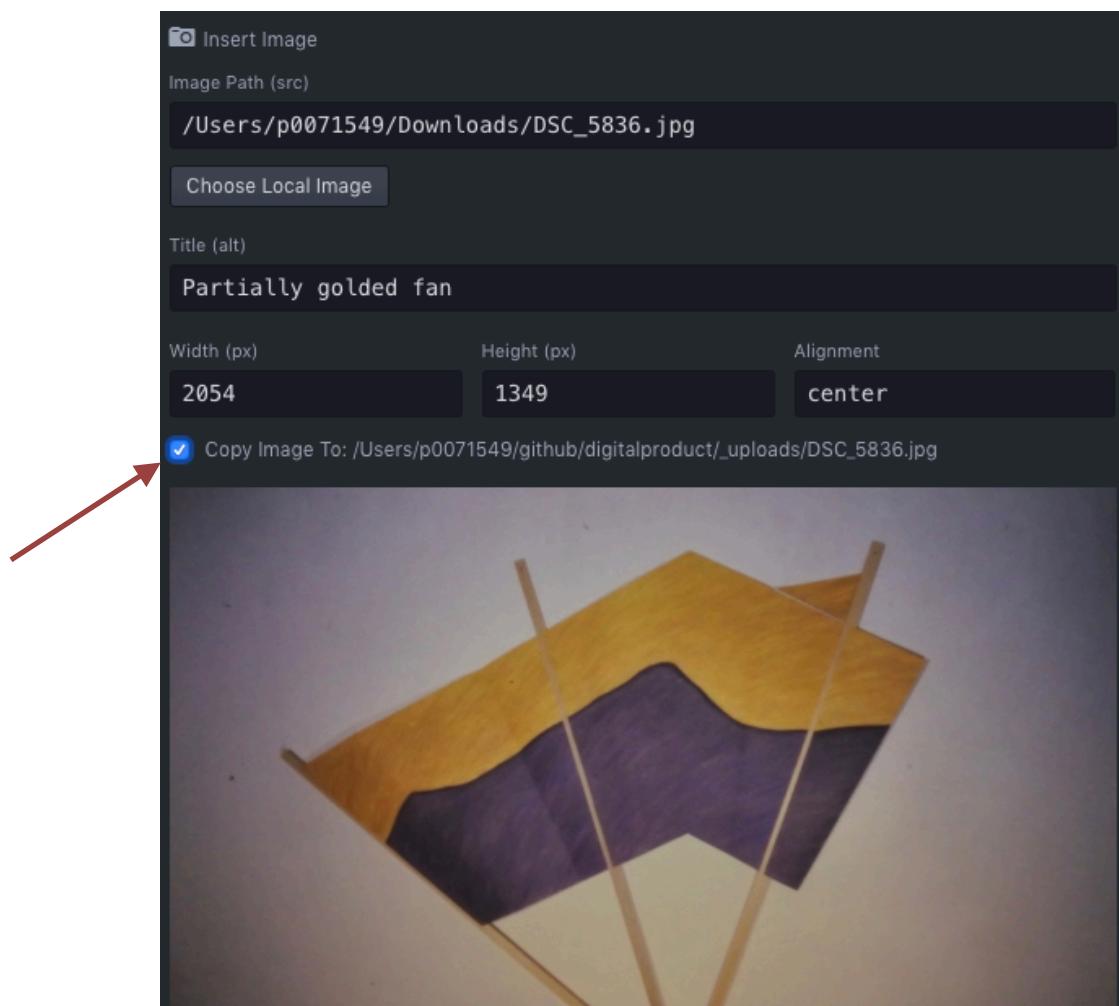
**Tip** you can drag images into the **\_uploads** folder (make sure that they do *not* have spaces in the file name) and then right-click over the image and copy the path. Then paste and edit this path into the metadata for header\_feature\_image: pathtoimage.

## Adding images to the content of a page

This is done through the image icon on the **markdown** toolbar at the bottom of the active Atom window.



You will get a popup window and you need to select and image from somewhere on your system. Make sure to click the box **Copy to ...**



## Previewing your page

You can preview the appearance of your page by clicking the icon near to the bottom left.

The icon appears like this



And we then see the preview pane on the right.:)

```
layout: post
title: The Tonge Publishing LAB
date: 2019-08-14 14:57
published: false
image:
caption:
```

Here at Brookes we have a fabulous computer suite specially configured for publishing and journalism students. We have 41 high spec iMacs with all the software that you could need during your studies.

The room is equipped with 2 high resolution projectors so that you can see the presentation screen from anywhere in the room.

![Students working on a project in the Tonge IT Lab](/images/2019/08/tonge.jpg)

layout	title	date	published	image
post	The Tonge Publishing LAB	2019-08-14 14:57	false	

Here at Brookes we have a fabulous computer suite specially configured for publishing and journalism students. We have 41 high spec iMacs with all the software that you could need during your studies.

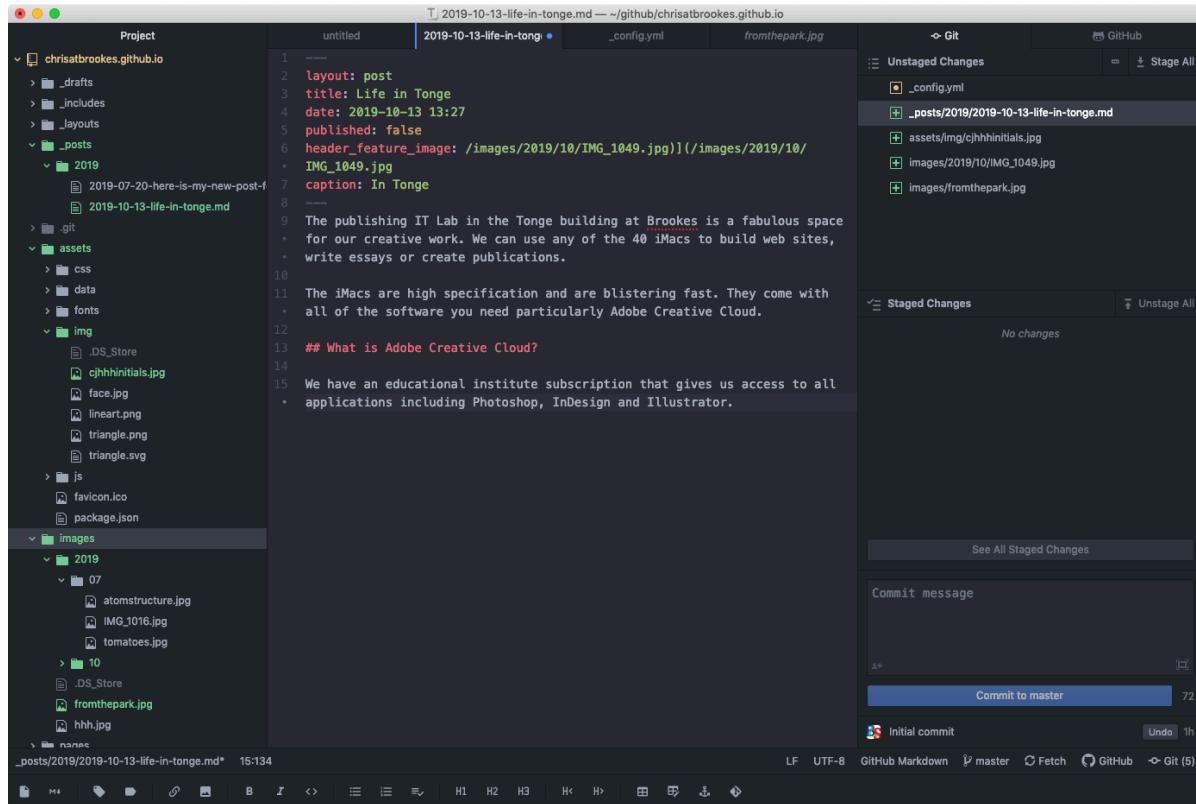
The room is equipped with 2 high resolution projectors so that you can see the presentation screen from anywhere in the room.

A photograph showing several students in a computer lab. They are seated at desks with multiple monitors, working on projects. One student in the foreground is looking towards the camera, while others are focused on their screens or interacting with each other.

This isn't an absolutely perfect rendition of your web page, but it simply confirms that the structure is correct and the **markdown** is converted to **HTML** correctly.

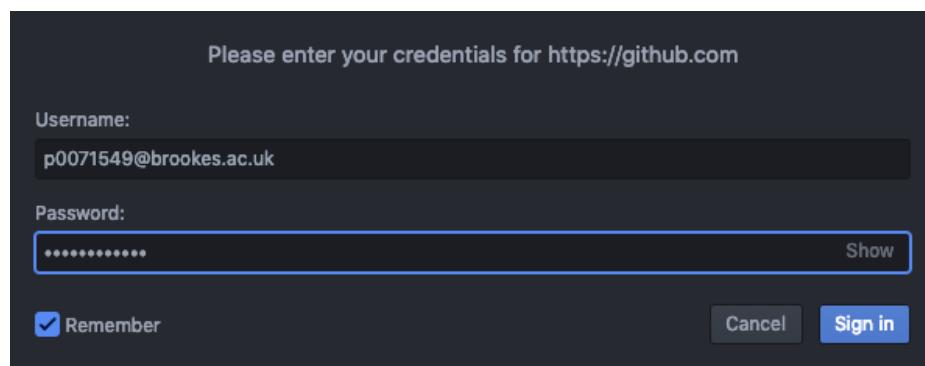
## Step 6. Getting the new content up to the web (making your web site live)

Atom interacts with your **github** site, so once you have made changes or added a post, you will need to open the **Git** pane (bottom right) and then notice the changed or added files up at the right. These are **unstaged Changes**.



Now click **Stage All** and these will move down to the **Staged Changes** pane. You need to write something in the commit box, so that the changes will have a meaning to you later.

You can now **Push** these changes to **Github** but for the first time you will need to add your credentials (please tick the **remember box** so that you only do this for the first time).



## Take a first look at your new site

Your site is available now at `username.github.io`. Change `username` of course.

You should now be able to write further blog posts and add further pages. You can customise your site by changing the title, the main image and the avatar through the `_config` file.

 Chris Jennings at Brookes

About  



## What happens when we teach



### Life in Tonge

OCTOBER 13, 2019

The publishing IT Lab in the Tonge building at Brookes is a fabulous space for our creative work. We can use any of the 40 iMacs to build web sites, write essays or create publications.



### Here is a sample blog post

AUGUST 6, 2019

This is just a sample post that you should delete or set to published:false. This paragraph will appear on the home page as a preview of the post. The rest below this paragraph will appear on the blog post page. The page image is optional and you should enter the path to it in the metadata above.

Copyright 2019 Chris Jennings

For further changes to the appearance you will need to make changes to the CSS. This is the subject of future advanced sessions.

## Step 7. Adding to and Editing your site Online

Although we recommend using **Atom** as the way to write posts and edit your site (you certainly need to use it for editing the config file and changing the appearance of your site), you can optionally use an online tool from anywhere with an internet connection to post articles.

### Using Siteleaf

Go to the web site <https://www.siteleaf.com> and signup with your GitHub credentials.

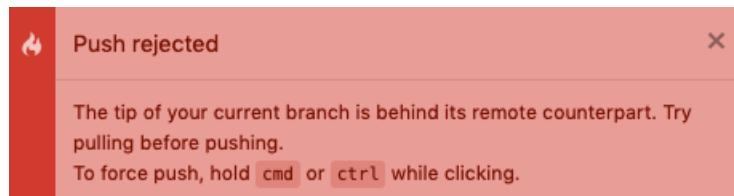
You should now see your repository available.

Once you go into the repository, you can edit the posts or create new posts directly.

You will need to select the developer account soon after setting up.

### Synchronising

Be aware that if you use **Siteleaf** to edit your site then your local copy (edited with Atom) will not be the same. If this is the case then you will need to find the **Fetch** link at the bottom right of the Atom window to **pull** the changes to your local space.



## How does all of this work?

### Github Pages

GitHub provides for free github pages.

**You can read more about this here:** (<https://pages.github.com>).

Basically anyone can host web pages here but we are using a static site generation system called Jekyll which is also supported in Github pages.

### Jekyll

This software operates your site, converting the markdown files into HTML when you *push* your files up to the GitHub repository.

**You can read more about this here:** (<https://jekyllrb.com>).

The Jekyll site that you have created from the provided template includes all of the files necessary to build the live pages including the stylesheets (CSS) and some javascript. There is also a system of logic that builds the menus and pagination.

## Liquid

The logic behind the web site that is used by Jekyll is called liquid. You don't need to have knowledge of this coding language but if you are interested then you can explore further here. <https://shopify.github.io/liquid/>

## Clone, Push, Pull - What do these terms mean exactly?

When you **clone** the site, you are taking a copy of the complete repository from GitHub to your local computer.

When you use **Push**, you are sending to github the changed files. In other words, you will deliver only files that have changed on your local copy in comparison to the live web site. This might mean new files of course

When you use **Pull**, you are only receiving the changed files. In other words, you will receive only files that have changed on github.

**Push** and **Pull** are found under the item **Fetch** at the bottom right of the Atom window.

## Making a Commit

When you make a change to your site or post a new article or page, you are advised to write a short commit message. That way, you can go through your history to see what changes have been made. This also means that you can revert changes back to an earlier version.

## Storing in the Cloud?

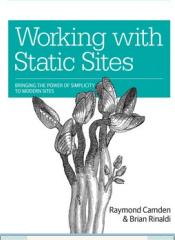
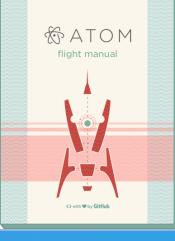
If you save your local repository in the cloud (remember - we moved the cloned site from our github folder to Creative Cloud -), then you can edit the site with Atom on any computer where you have signed in to that cloud service (Creative Cloud). Just drag the complete folder onto the Atom icon to open the complete project. You just need to be sure to **Push** the changes up to your live GitHub site.

## Not storing in the cloud?

If you want to edit a local copy of your site **not** stored in the cloud and you want to edit in **more than one** place, you will need to, first **Clone** the GitHub repository (use Atom as instructed above) and then, to keep these local copies in synch, you will need to use **Pull** to get the latest version changes on GitHub.

Although this can seem a bit complicated, Atom, will warn you if the current live web site has more recent changes than your local copy. You will be asked to **Pull** first before trying to **Push**.

## Further reading

		Title	Details
		Creating Blogs with Jekyll	Vikram Dhillon, 2016, APRESS
		Working with Static Sites	Raymond Rinaldi, 2017, O'Reilly Press
		The Atom Flight Manual	Website: <a href="https://flight-manual.atom.io">https://flight-manual.atom.io</a>
		The Markdown User Guide	Website: <a href="https://www.markdownguide.org">https://www.markdownguide.org</a>
		Static Site Generators	Brian Rinaldi, 2015, O'Reilly Press
		GitHub Essentials	Achillieas Pipinellis, Packt Publishing, 2018

All of the above books can be found on Safari Books Online - available through Oxford Brookes University library.

## This is not the End

Once you have everything set up as outlined above you should be able to post to your site without difficulty.

**But what about...**

### I want to use my other computer

As pointed out above, you can use [prose.io](#) to post to your site from anywhere with an internet connection. However, if you want to use Atom on a different MAC computer then follow the instructions set out in **Step 1**. To do the same on a Windows PC, you will need to download [Atom](#) yourself (<https://atom.io>) and then add the following packages:

- tool-bar
- markdown-writer
- toolbar-markdown-writer
- zen (this will provide a distraction free interface)
- Word count

Once you have Atom running then you will need to follow **Step 3**.

### I want my site to look different

The CSS (stylesheet) that controls the appearance in the CSS folder inside the assets folder. You can edit the CSS with Atom however, you won't see the results until you push the changes up to your live web site. This can be a bit frustrating and there are 2 ways that you could make this easier:

Get your Jekyll site running locally and the instructions are here:

<https://help.github.com/en/articles/testing-your-github-pages-site-locally-with-jekyll>.

Unfortunately, we can't do this on the Tonge MACs at the time of writing this.

Another way to check your CSS changes is to use the 2 sample HTML pages that use the same CSS. Just open these in your browser and then as you edit the CSS, you can refresh the pages to see the effect. The 2 files are in the root of your project ([samplehome.html](#) and [samplepost.html](#))

Chris Jennings 2020