

Spring 2018 — ar589.github.io

Week 3

Interactive Design

Process

Media Queries

Tachyons

Assignment 1

Git

Design Challenge

The Interactive Design Process

**What is the job
of a designer?**

Fully Understand the Content

- What's the point?
- How should the user feel?
- How should the interface work?

Identify Design Opportunities

- How can you generate interest?
- What parts of the content can benefit from design attention?

Understand the Audience

- What are they looking for?
- How can you help?
- How can the design help them?

Consider the Context

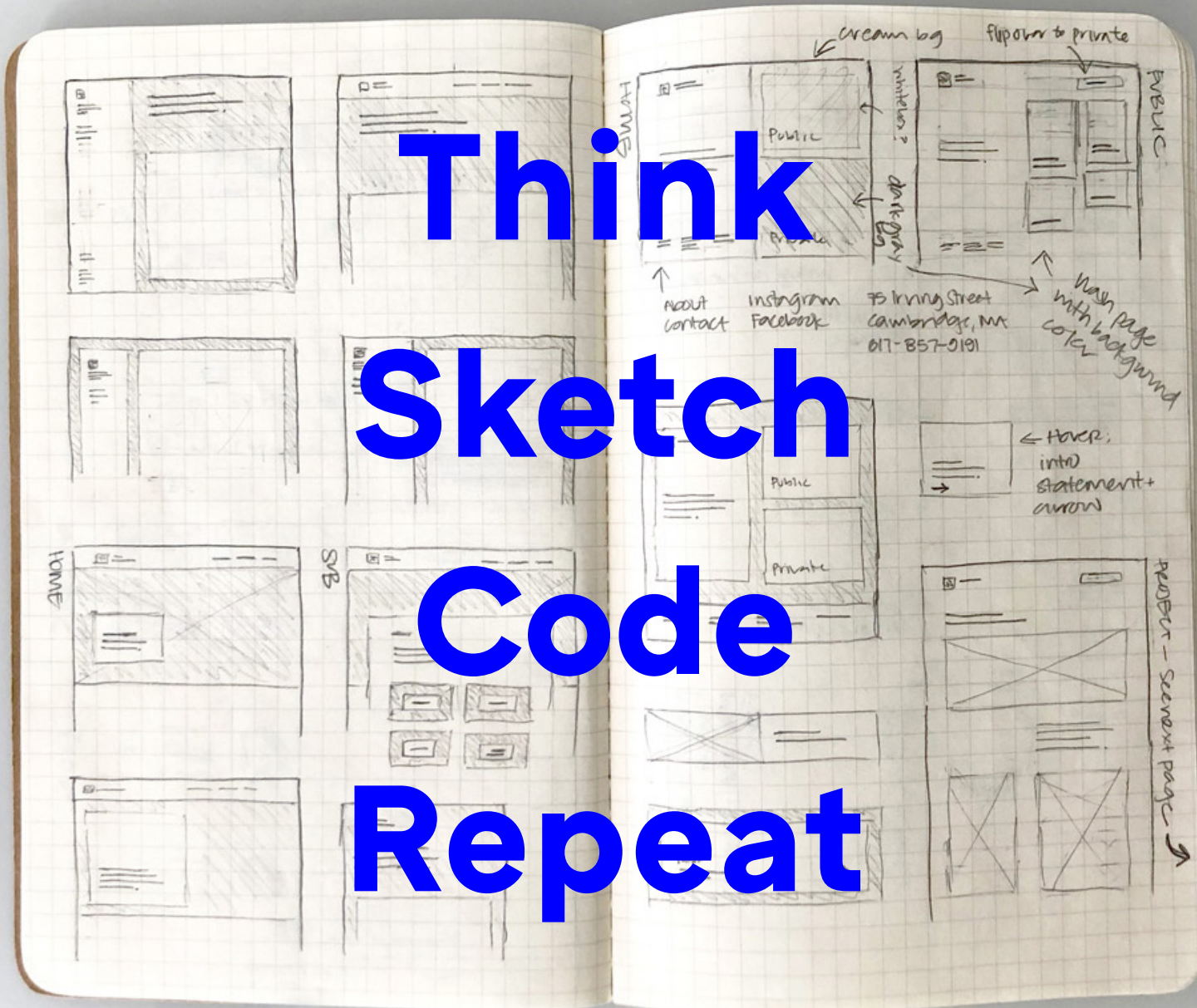
- What devices will be used?
- What is the user's environment like?
- How does your design adapt?

Create a Visual Language

- Interface elements: links, buttons, menu
- Color palette
- Typography

**How do you
design in code?**

Think
Sketch
Code
Repeat



Responsive Design



Elements of RWD

- Flexible Grid
- Flexible Images
- Media Queries

Flexible Grid

Grid gives us this out of the box.
Just don't set a fixed width!

```
.grid {  
  display: grid;  
}
```

Flexible Images

Images are a fixed size by default.
We need to tell them to be responsive.

```
.full-width-image {  
  display: block;  
  width: 100%;  
}
```

```
.no-bigger-than-viewport-image {  
  display: block;  
  max-width: 100%;  
}
```

@media

A CSS “at-rule” that tests a device’s specific characteristics of the browser.

```
h1 {  
    font-size: 24px;  
}  
  
@media (min-width: 600px) {  
    h1 {  
        font-size: 36px;  
    }  
}
```


A New Way of Thinking About CSS

**What are the
hardest parts of
designing in code?**

It's a bit slow.

We have to write two different types of code (HTML and CSS) in two different places.

**Code can get
messy while you're
working on it.**

We want to spend time designing, not organizing.

**The “cascade” of
CSS can be pretty
confusing.**

And then media queries, c'mon!

Naming your CSS classes is hard.

And kind of pointless, TBQH.

Tachyons

<http://tachyons.io>

A “CSS Toolkit”

- It’s just a bunch of tiny, logical classes
- Based on a mathematical scale
- Built with designing in mind

Key Properties

- Type Scale
- Spacing (margin & padding)
- Sizing (height & width)
- Color

Why is this better?

- Mirrors how you make design decisions
- Faster to implement
- Simplifies the idea and execution of RWD
- Way more stable
- Easy to debug

Using Tachyons

Download tachyons and include it in the head of your HTML document.

```
<!DOCTYPE html>
<html lang="en">
  <title>My cool site</title>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet" href="/tachyons.min.css">
  <body>
    <h1>Let's go!</h1>
  </body>
</html>
```

Type Scale

A scale that goes from “f1” to “f7.”

“f1” is the largest size, “f7” is the smallest.

```
<h1 class="f1">  
  A Wonderful Headline  
</h1>
```

Media Queries

Three sizes:

“-ns”: not small, “-m”: medium, “-l”: large

```
<h1 class="f3 f2-m f1-l">  
  A Wonderful Headline  
</h1>
```

Spacing

Margin and Padding are also on a scale.
0 is the smallest, 7 is the largest.

```
<div class="ma2 ma3-m ma4-l">
```

```
...
```

```
</div>
```

```
<div class="ph2 ph3-m ph4-l">
```

```
...
```

```
</div>
```

How to Read the Docs

Base

+ Modifiers

+ Media Queries (optional)

Class

```
/*  
  SPACING  
  Docs: http://tachyons.io/docs/layout/spacing/  
  
  An eight step powers of two scale ranging from 0 to 16rem.  
  
  Base:  
    p = padding  
    m = margin  
  
  Modifiers:  
    a = all  
    h = horizontal  
    v = vertical  
    t = top  
    r = right  
    b = bottom  
    l = left  
  
    0 = none  
    1 = 1st step in spacing scale  
    2 = 2nd step in spacing scale  
    3 = 3rd step in spacing scale  
    4 = 4th step in spacing scale  
    5 = 5th step in spacing scale  
    6 = 6th step in spacing scale  
    7 = 7th step in spacing scale  
  
  Media Query Extensions:  
    -ns = not-small  
    -m  = medium  
    -l  = large  
  
*/
```

Resources

- <http://tachyons.io/docs>
- <https://github.com/tachyons-css/tachyons/tree/master/src>
- <https://roperzh.github.io/tachyons-cheatsheet>

Assignment 1

Art-Directed Article

Find a longform article and create a design using HTML and CSS to enhance the viewer's understanding of the content.

Requirements

- At least 3 images
- At least 1 pull quote
- At least 750 words
- Must use Grid for layout
- Must be responsive

Due Next Week

Let's Git Going

What is Git?

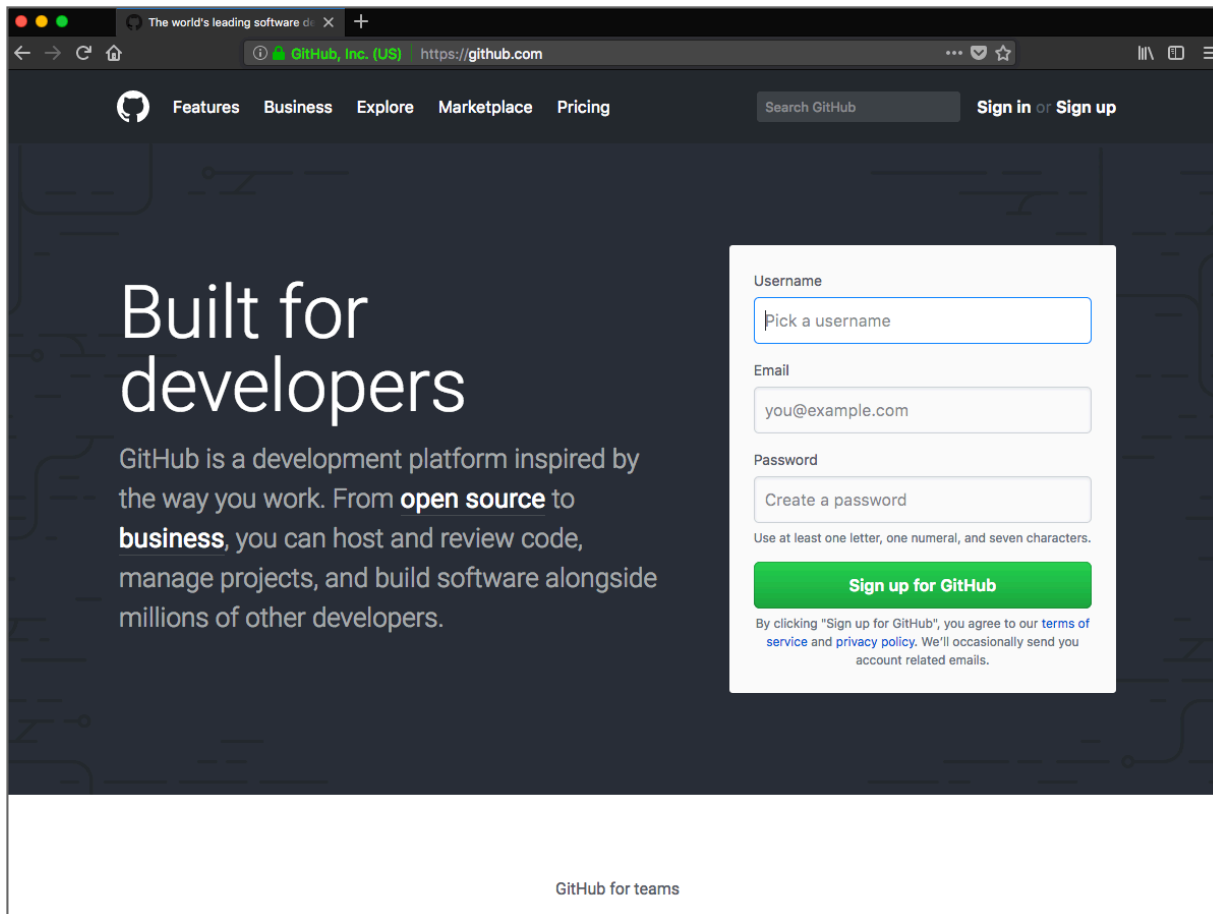
- A distributed **version control system** that keeps track of your files.
- We interface with Git Github Desktop.
- It allows us to roll back changes, do design experiments, and we'll use a service to turn our Git projects into websites!

How it Works

- Create a repository
- Commit your changes
- Push changes to Github

Version Control: Github

github.com



The image shows a screenshot of the GitHub website. The browser's address bar displays "https://github.com". The navigation bar includes links for "Features", "Business", "Explore", "Marketplace", and "Pricing", along with a search bar and "Sign in or Sign up" buttons. The main content area has a dark background with the text "Built for developers" and a description of GitHub as a development platform. A white sign-up modal is overlaid on the right side, containing input fields for "Username", "Email", and "Password", a green "Sign up for GitHub" button, and a disclaimer about terms of service and privacy policy. The footer of the page says "GitHub for teams".

Username

Email

Password

Use at least one letter, one numeral, and seven characters.

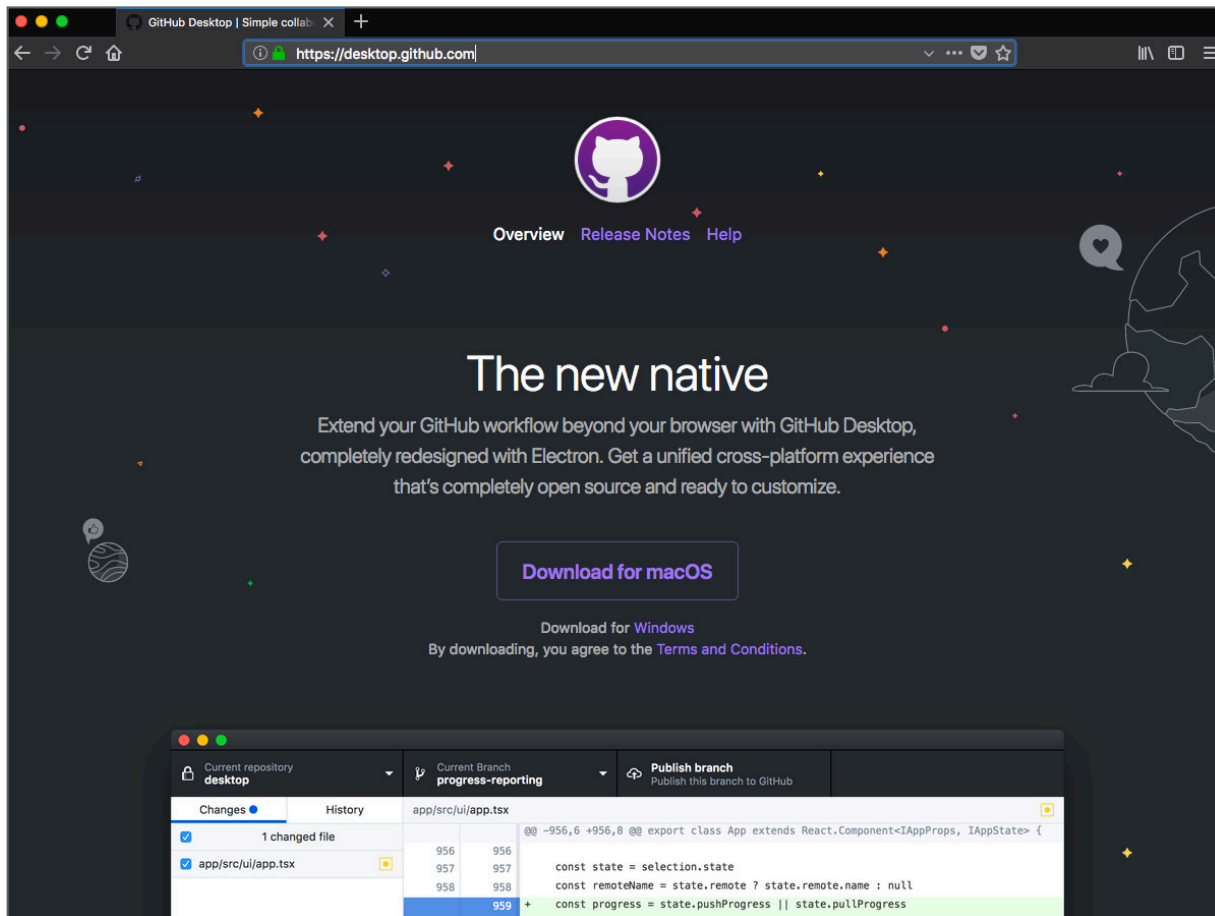
[Sign up for GitHub](#)

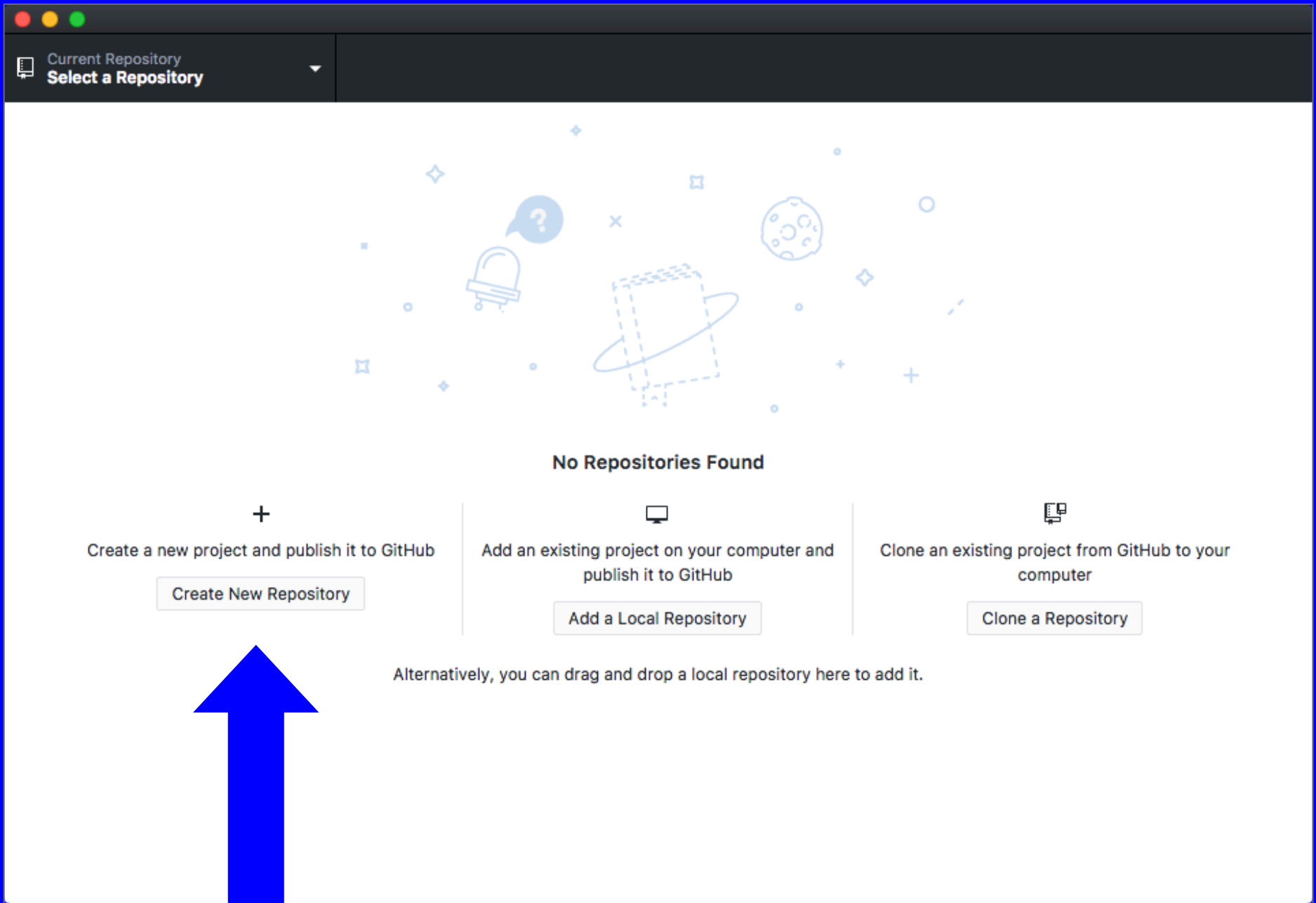
By clicking "Sign up for GitHub", you agree to our [terms of service](#) and [privacy policy](#). We'll occasionally send you account related emails.

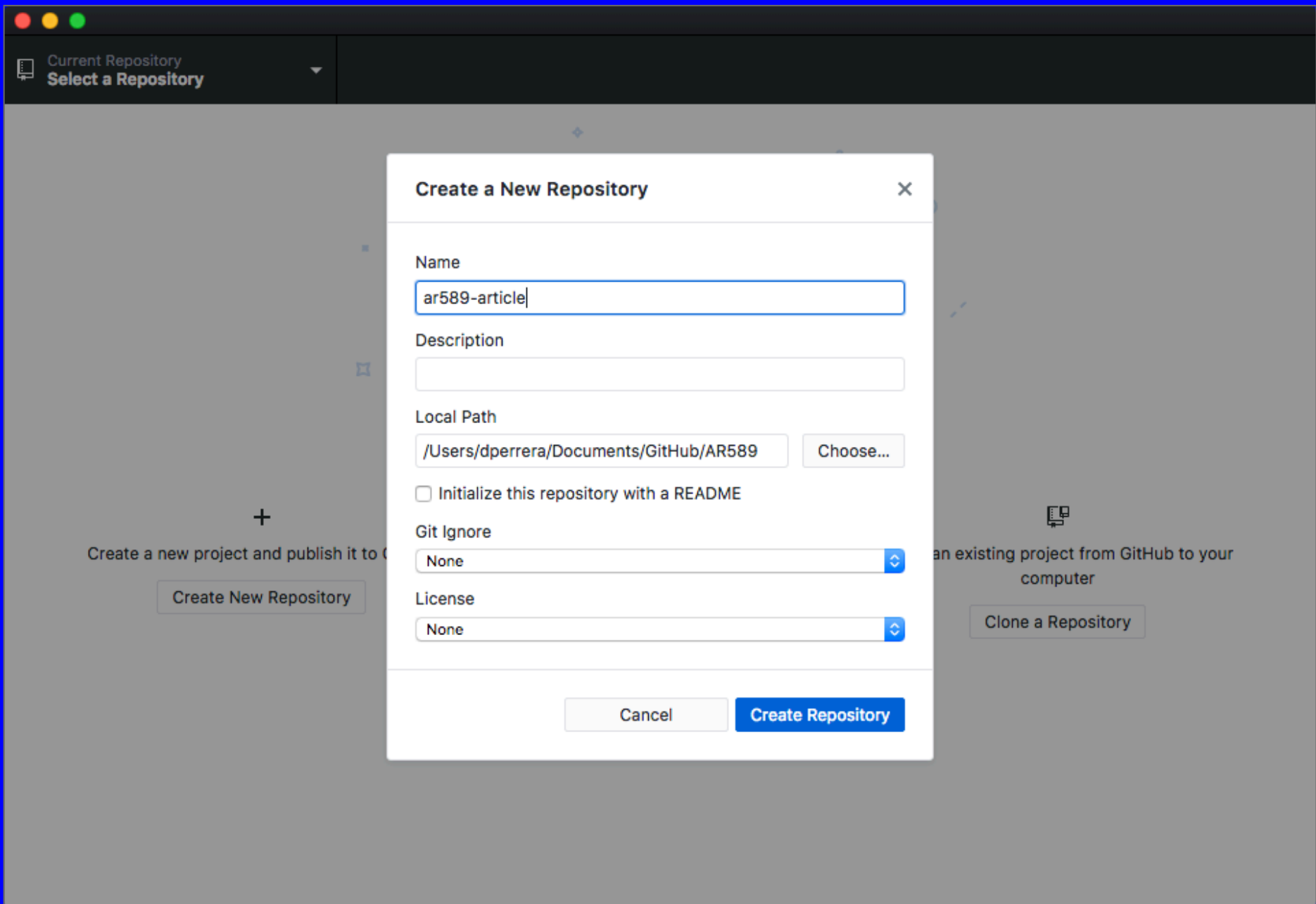
GitHub for teams

Git Client: Github Desktop

desktop.github.com

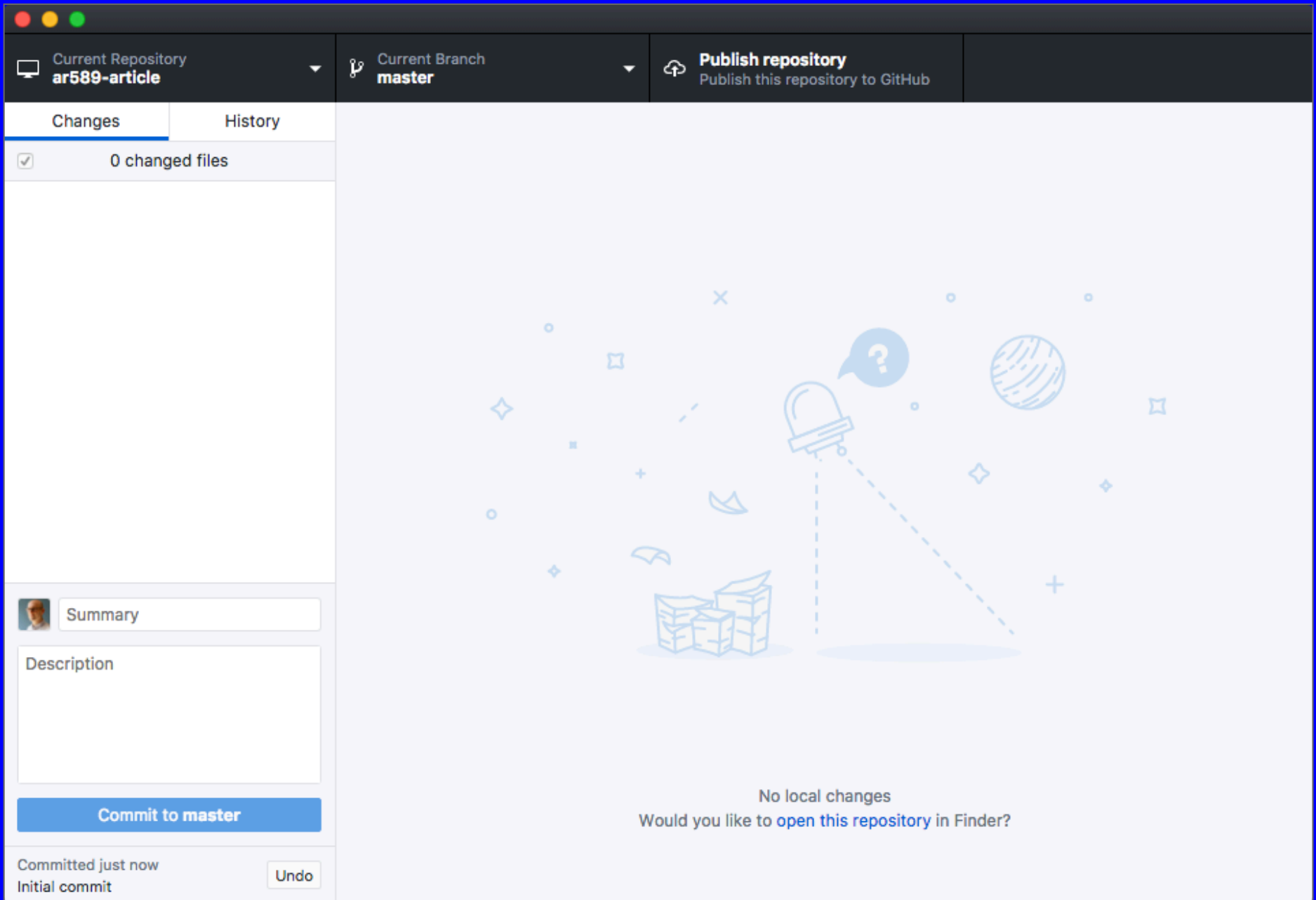







**Repository >
Open in Finder**

**Download and put
AR589 Starter files
into your project.**



Current Repository
ar589-article

Current Branch
master

 **Publish repository**
Publish this repository to GitHub

Changes ● History

css/main.css

5 changed files


css/main.css

css/tachyons.min.css

index.html

javascript/main.js

javascript/toggleClass.js

 Added starter files

Description

Commit to master

Committed 10 minutes ago
Initial commit

Undo

@@ -0,0 +1,16 @@

1 +/* =====

2 + * CSS written here will override Tachyons

3 + * ===== */

4 +

5 +.example {

6 + font-family: sans-serif;

7 + padding: 50px;

8 +}

9 +.example h1 {

10 + font-size: 10vw;

11 + color: blue;

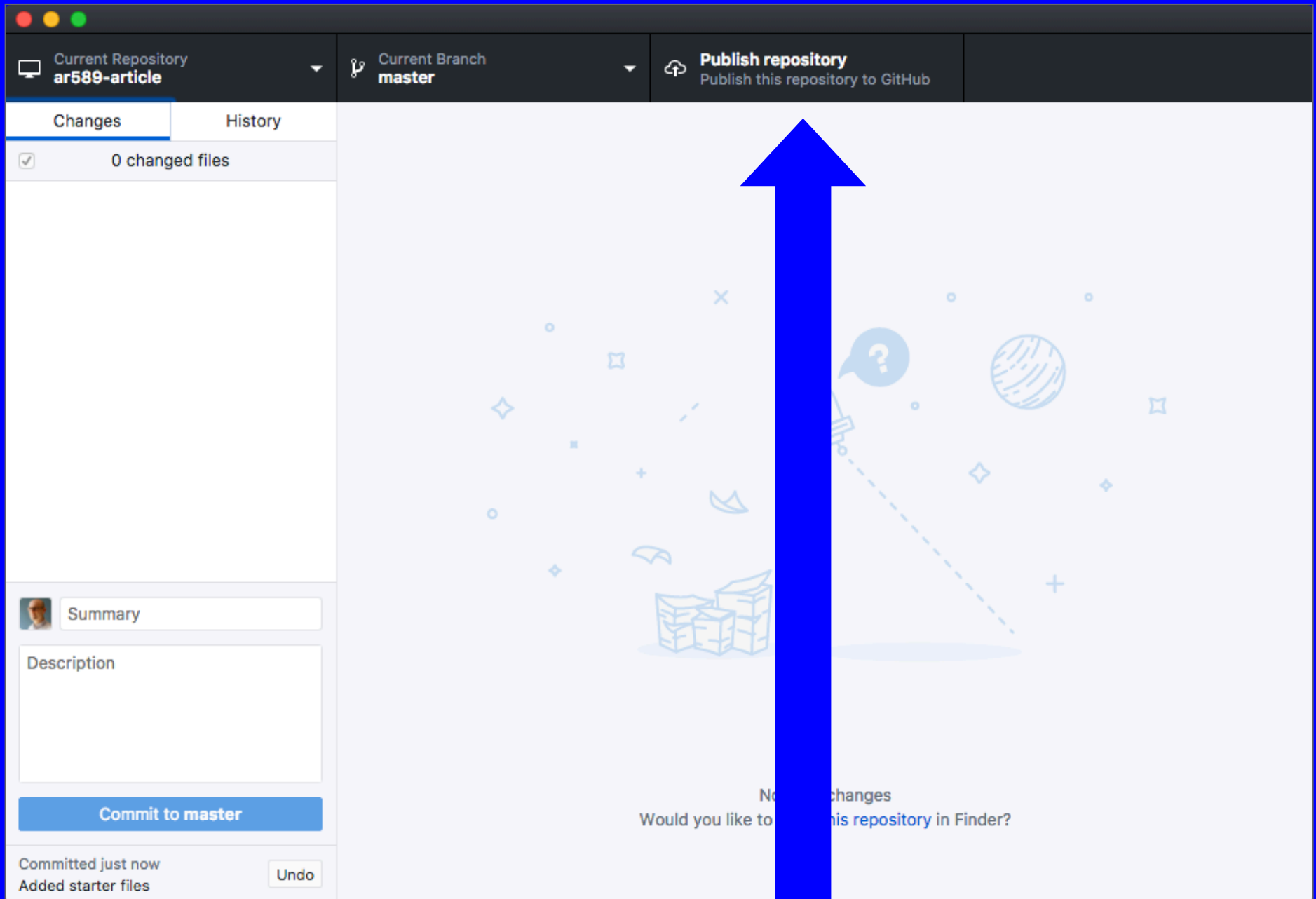
12 + margin: 0;

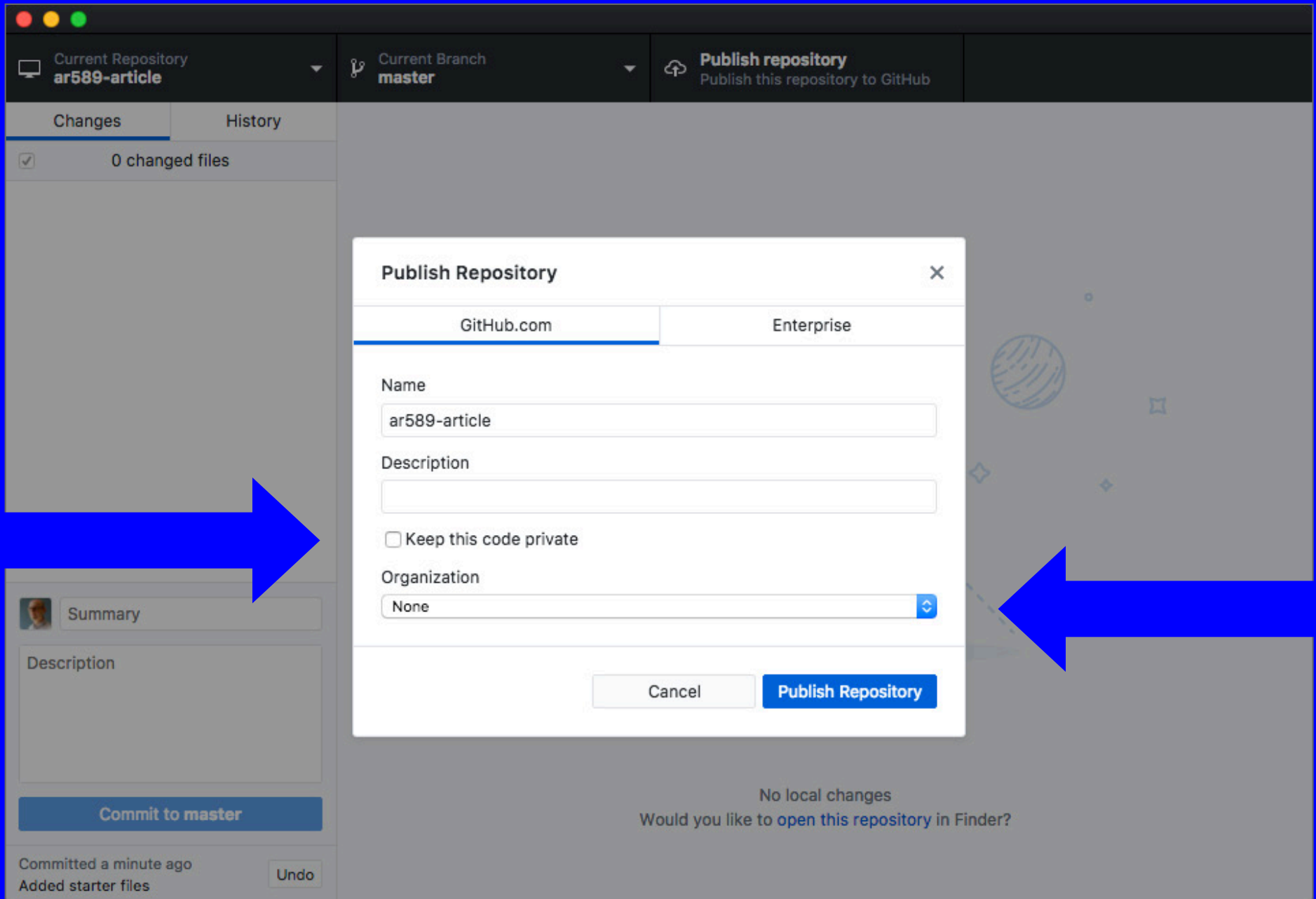
13 +}

14 +.example p {

15 + line-height: 1.6;







Design Challenge!

Using Tachyons, design a responsive “Top Five” list of your favorite songs. You must include at least the following information for each song:

- Song Title
- Song Duration (Time)
- Artist
- Album Art