

INTRO TO APP DEVELOPMENT

**DAY 1: GITHUB FUNDAMENTALS
AND FRONT-END DEVELOPMENT**

AGENDA

- ▶ 1. Make a small web page
- ▶ 2. Learn some terminal commands
- ▶ 3. Set up Github Accounts and publish sites
- ▶ 4. API, Javascript, UI & design

WEBSITE DEVELOPMENT

MAKING A WEB PAGE: SET UP YOUR ENVIRONMENT

- ▶ Download Sublime Text editor at
<http://www.sublimetext.com/>
- ▶ Create a HTML page
- ▶ Set up folder for scripts and styles

- ▶ Create a folder named `web_project`
- ▶ Save your file as `index.html` to the folder named `web_project`

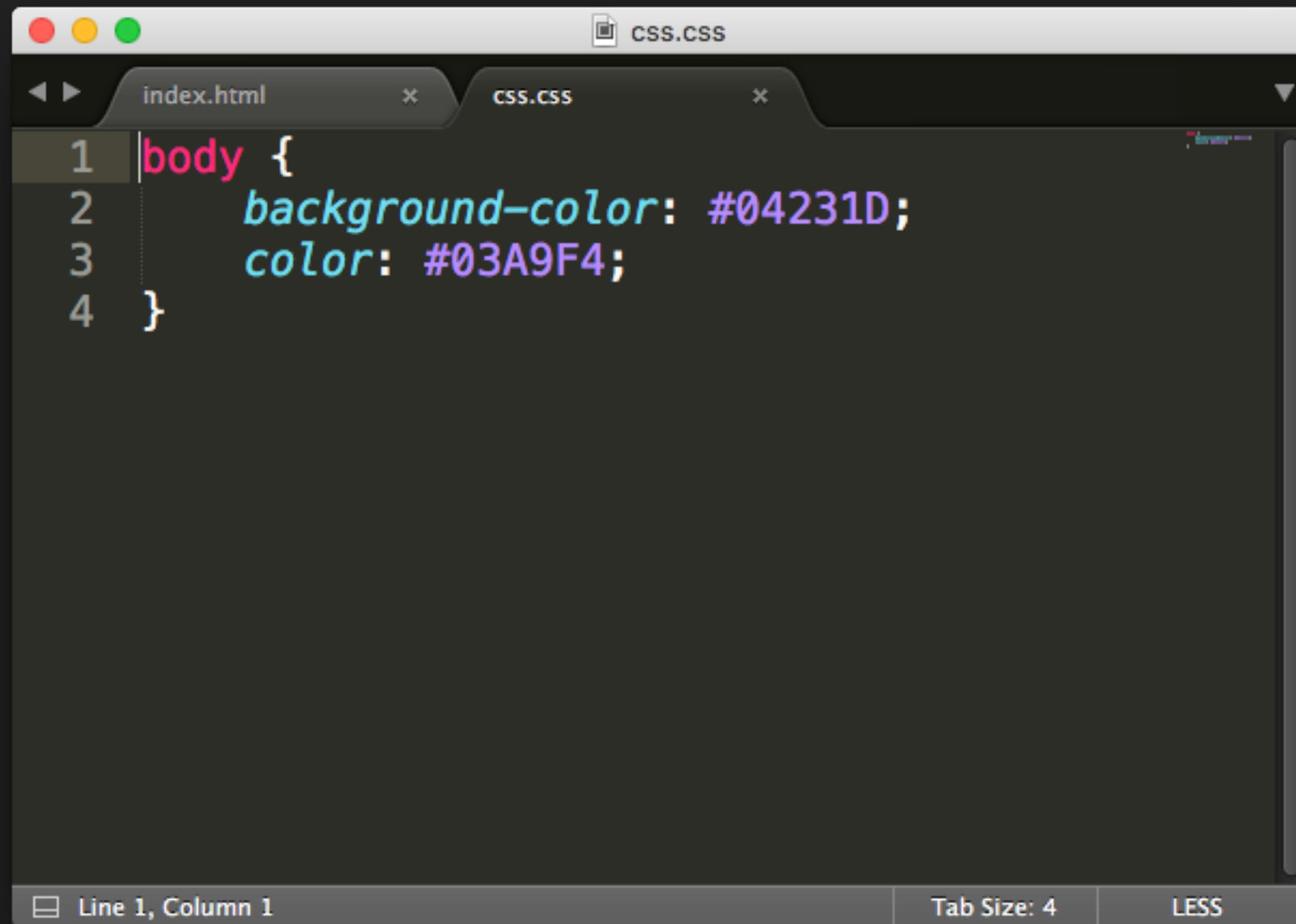
DAY 1: GITHUB FUNDAMENTALS AND FRONT-END DEVELOPMENT



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>This is the Title</title>
5 </head>
6
7 <body>
8   <h1>Hello world!</h1>
9 </body>
10
11 </html>
12
```

The image shows a code editor window titled 'index.html'. The code is written in HTML and is syntax-highlighted. The editor has a dark theme. The status bar at the bottom indicates 'Line 8, Column 20', 'Tab Size: 4', and 'HTML'.

CSS SETUP

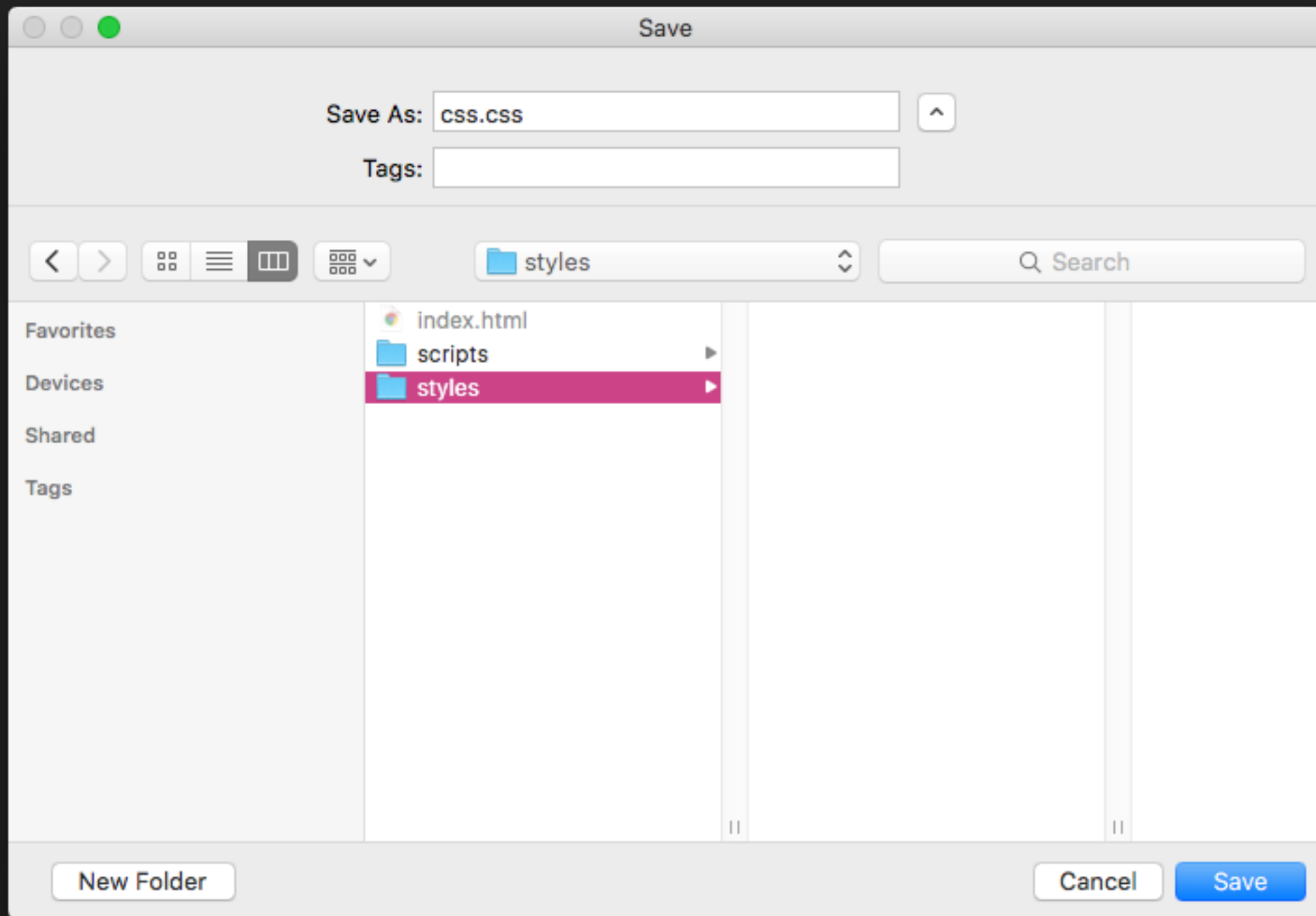


A screenshot of a code editor window titled 'CSS.CSS'. The editor has two tabs: 'index.html' and 'CSS.CSS'. The 'CSS.CSS' tab is active, showing the following CSS code:

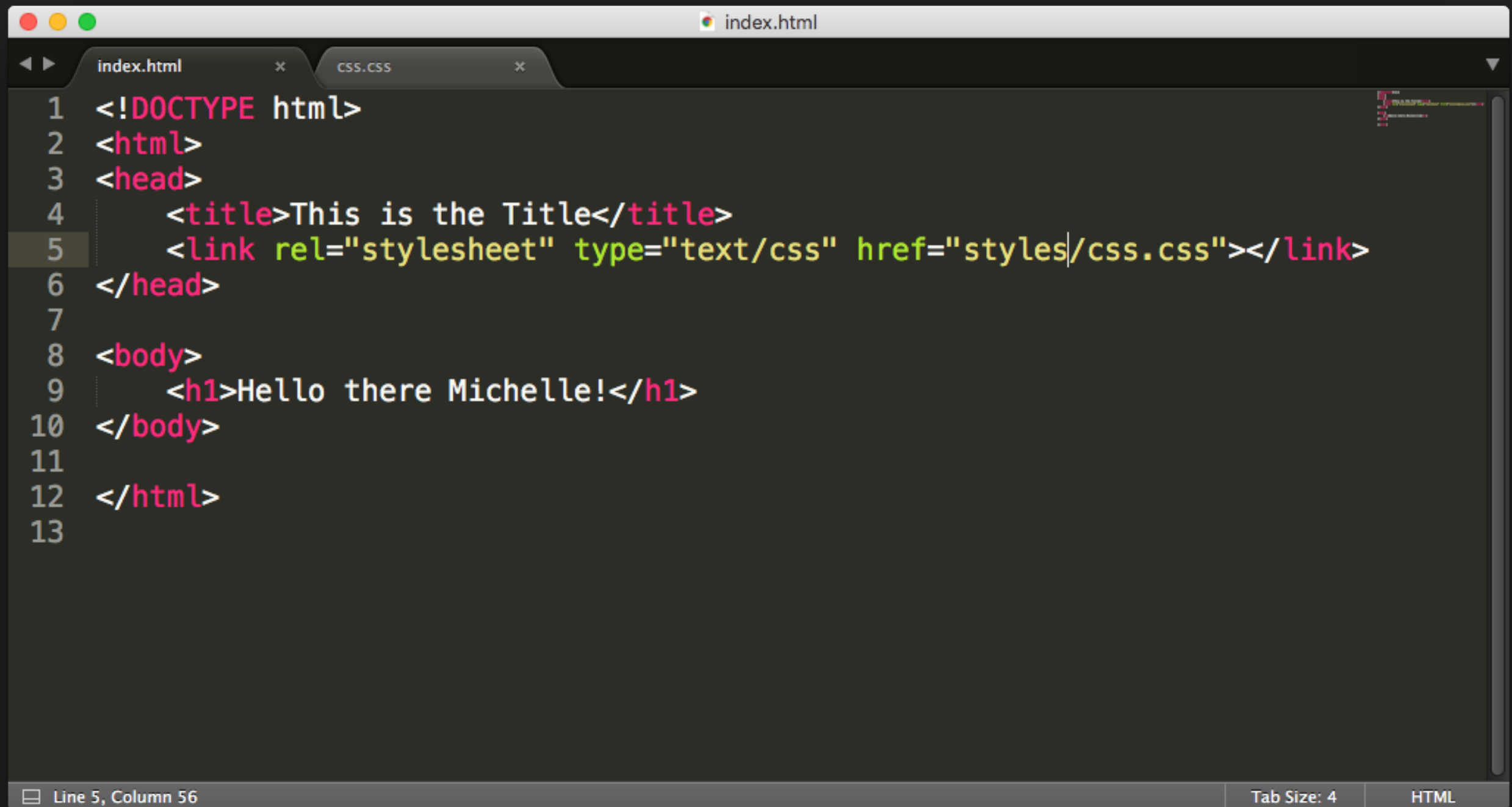
```
1 body {  
2     background-color: #04231D;  
3     color: #03A9F4;  
4 }
```

The code is syntax-highlighted: 'body' is in pink, '{' is in white, 'background-color' is in light blue, '#04231D' is in purple, 'color' is in light blue, and '#03A9F4' is in purple. The closing brace '}' is in white. The editor has a dark theme and a vertical scrollbar on the right. At the bottom, the status bar shows 'Line 1, Column 1', 'Tab Size: 4', and 'LESS'.

FOLDER SETUP – CSS



FOLDER SETUP - CSS



The screenshot shows a code editor window with two tabs: 'index.html' and 'CSS.CSS'. The 'index.html' tab is active, displaying the following HTML code:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4     <title>This is the Title</title>
5     <link rel="stylesheet" type="text/css" href="styles/css.css"></link>
6 </head>
7
8 <body>
9     <h1>Hello there Michelle!</h1>
10 </body>
11
12 </html>
13
```

The cursor is positioned at the end of line 5, column 56. The status bar at the bottom indicates 'Line 5, Column 56', 'Tab Size: 4', and 'HTML'.

**USING THE
TERMINAL**



TERMINAL AND THE COMMAND LINE

- ▶ `ls` - list
- ▶ `cd` - change directory
- ▶ `pwd` - print working directory
- ▶ `.` - (current directory)
- ▶ `..` - (parent directory)
- ▶ `mkdir` - make directory

GITHUB

FUNDAMENTALS

DAY 1: GITHUB FUNDAMENTALS AND FRONT-END DEVELOPMENT

- ▶ What is a program?
- ▶ What is Git?
- ▶ What is Github?
- ▶ What is the command line?
- ▶ What is a Repo?

HELLO WORLD

CONNECTING YOUR FOLDER TO GITHUB

- ▶ 1. navigate to you folder, so you can see your files on the command line then type in:

```
git init
```

```
git remote add origin https://github.com/hellowrrld/super-adventure.git
```

```
git add .
```

```
git commit -m "initial commit" //will show instructions for setting up name
```

```
git commit --global --edit
```

```
git config --global user.name "Your name"
```

```
git config --global user.email you@example.com
```


GITHUB COMMANDS

- ▶ `$ git init`
- ▶ `$ git diff`
- ▶ `$ git add .`
- ▶ `$ git commit -m "initial commit"`
- ▶ `$ git push origin master`

GITHUB COMMANDS

- ▶ `$ git branch`
- ▶ `$ git branch more-color`
- ▶ `$ git checkout more-color`
- ▶ `$ git diff`
- ▶ `$ git stash`

GITHUB COMMANDS

- ▶ `git checkout <commit-hash>`
- ▶ `git revert`
- ▶ `git clean`
- ▶ `git reflog`
- ▶ `git reset`

PUSH YOUR SITE UP TO THE WORLD!

- ▶ create a new repository named [username.github.io](https://github.com/username/username.github.io)
- ▶ `git clone https://github.com/username/username.github.io`
- ▶ `cd username.github.io`
- ▶ `echo "Hello World" > index.html`
- ▶ `git add --all`
- ▶ `git commit -m "Initial commit"`
- ▶ `git push -u origin master`
- ▶ go to <http://username.github.io>

CASCADING STYLE SHEETS

CSS: THE BASICS

▶ selector { property: value }

```
body {
```

```
  background: #eeeeeee;
```

```
  font-family: "Trebuchet MS", Verdana, Arial, serif;
```

```
}
```

CSS: COMBINING SELECTORS

```
h1, h2, h3, h4, h5, h6 {  
    color: #009900;  
    font-family: Georgia, sans-serif;  
}
```

CSS AND IDS

```
#container{  
  
    width: 80%;  
  
    margin: auto;  
  
    padding: 20px;  
  
    border: 1px solid #666;  
  
    background: #ffffff;  
  
}
```


CSS

```
.redboldtext {  
    font-size: small;  
    color: red;  
    font-weight: bold;  
}
```

SPANS

▶ HTML:

```
<span class="italic">This text is italic</span>
```

▶ CSS:

```
.italic{
```

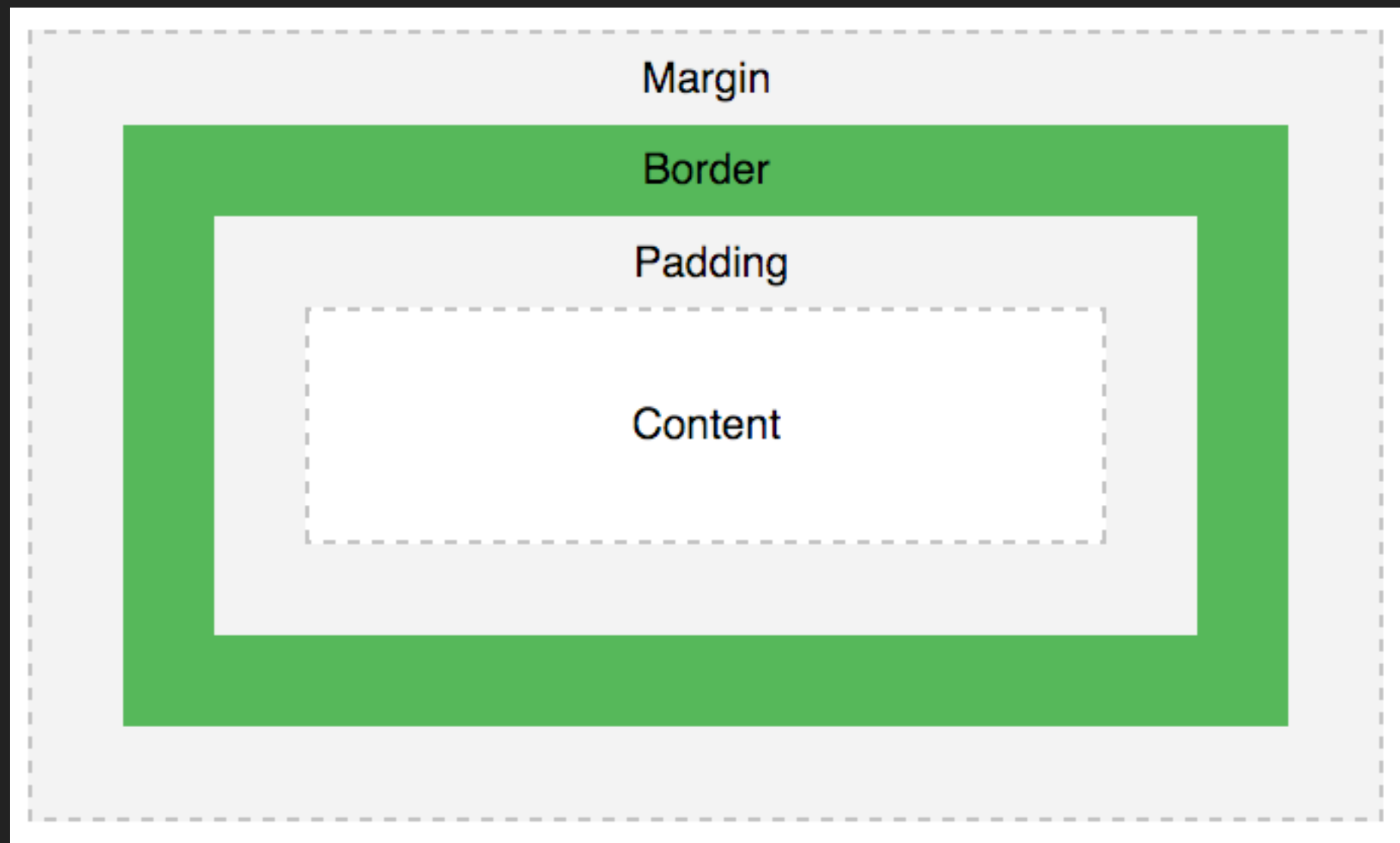
```
    font-style: italic;
```

```
}
```

ANCHORS, LINKS AND PSEUDO CLASSES

- ▶ `a:link {color: #009900;}`
- ▶ `a:visited {color: #999999;}`
- ▶ `a:hover {color: #333333;}`
- ▶ `a:focus {color: #333333;}`
- ▶ `a:active {color: #009900;}`

CSS THE BOX MODEL



CSS MARGINS & PADDING

- ▶ padding
 - ▶ inside the boarder
- ▶ margins
 - ▶ outside the border
 - ▶ `margin: 10px 10px 10px 10px;`

CSS : TEXT ALIGN

► `text-align: value;`

Possible values are:

left

right

center

justify

DISPLAY

- ▶ inline
- ▶ block
- ▶ inline-block
- ▶ flex
- ▶ none (no effect on layout)

POSITION

- ▶ static
- ▶ relative
- ▶ absolute
- ▶ fixed

FURTHER LINKS: HTML

- ▶ <http://www.w3schools.com/>

FURTHER LINKS: CSS

- ▶ <http://learnlayout.com/>

FURTHER LINKS: GITHUB

- ▶ <https://www.atlassian.com/git/tutorials/what-is-version-control>