

INTRO TO APP DEVELOPMENT

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**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

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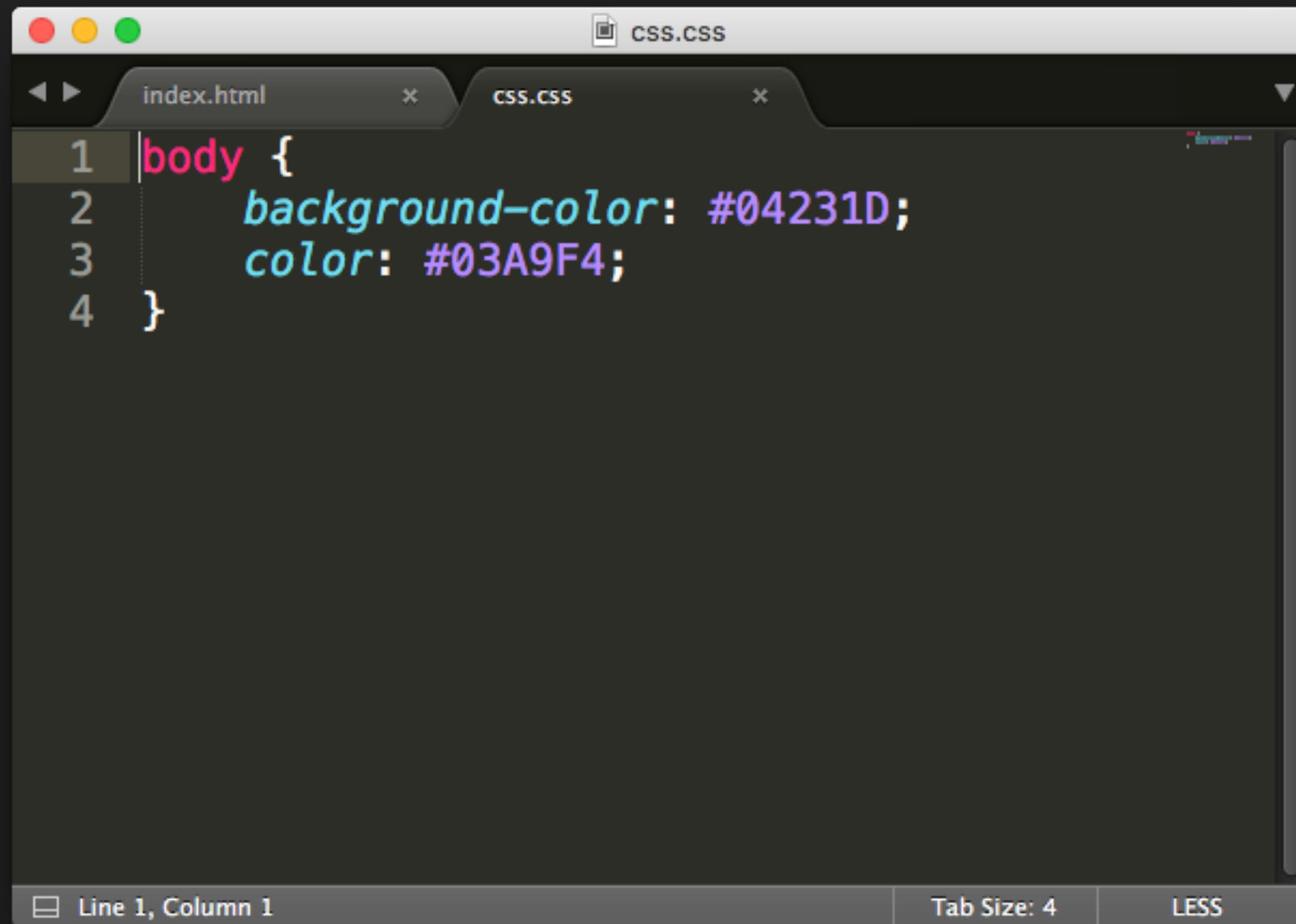


A screenshot of a code editor window titled "index.html". The editor displays the following HTML code:

```
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 code is syntax-highlighted with red for tags and black for text. The cursor is positioned at the end of line 8. The editor interface includes a tab bar at the top with the file name "index.html", a line number gutter on the left, and a status bar at the bottom showing "Line 8, Column 20", "Tab Size: 4", and "HTML".

## CSS SETUP

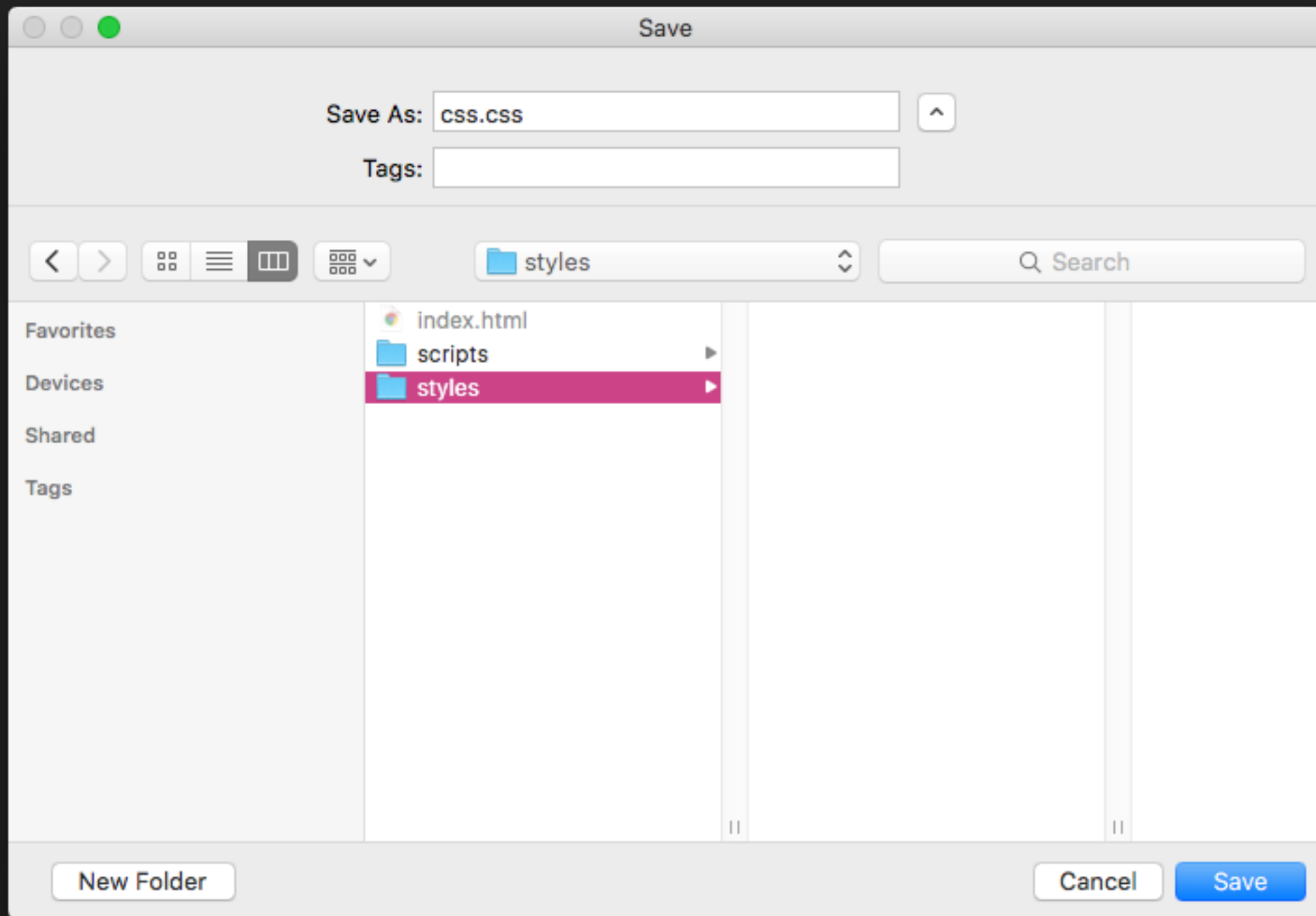


A screenshot of a code editor window titled "CSS.CSS". The editor has two tabs: "index.html" and "CSS.CSS". The "CSS.CSS" tab is active, showing the following CSS code:

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

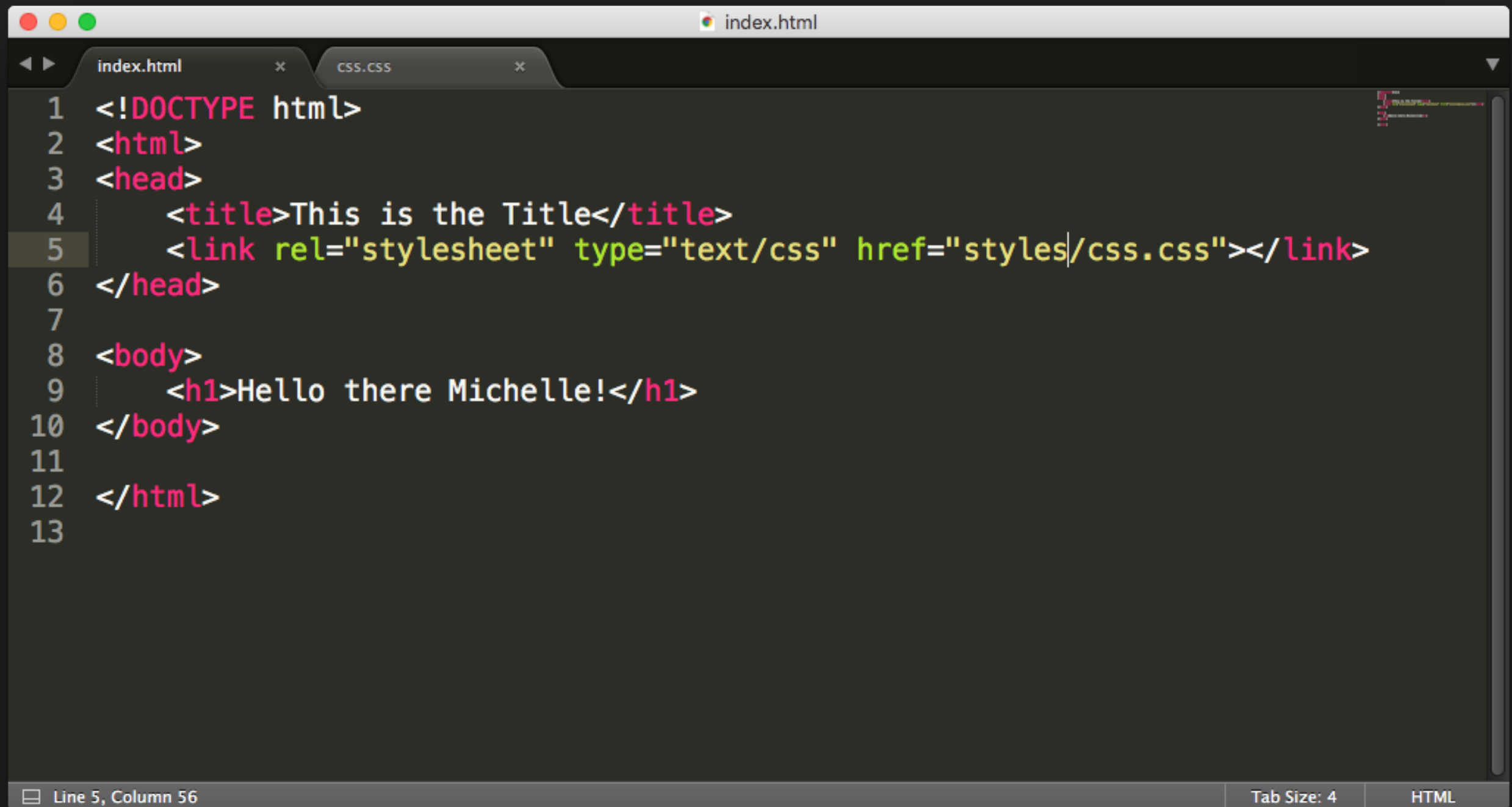
The code is syntax-highlighted: "body" is in pink, "background-color" is in light blue, "#04231D" is in purple, "color" is in light blue, and "#03A9F4" is in purple. The editor has a dark theme and a vertical scrollbar on the right. The status bar at the bottom shows "Line 1, Column 1", "Tab Size: 4",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

## FOLDER SETUP – CSS





# FOLDER SETUP – CSS



The screenshot shows a code editor 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

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- ▶ 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{
```

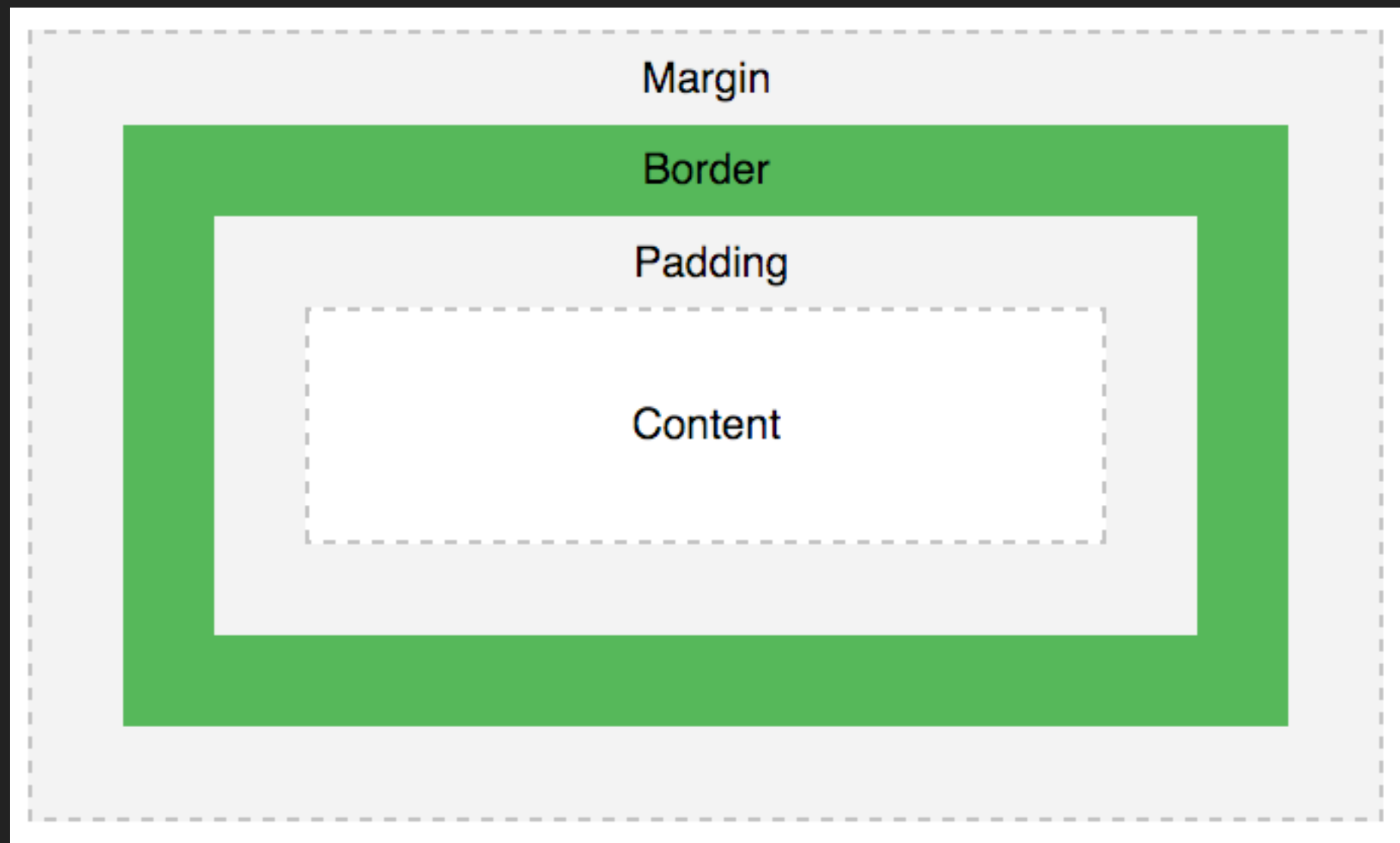
```
    font-style: italic;
```

```
}
```

## 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 border
- ▶ 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>