

## Designing Web Pages

HTML and CSS are two powerful front-end technologies every web designer and developer needs to know in order to build beautiful websites. Each technology is built to solve a particular problem and knowledge of both of these technologies is crucial. However, it is not simple to master each technology since each of them comes with a rich of features and options on how to use them. Nonetheless, it is essential to have a working knowledge of both technologies to be able to create websites.

To build our first webpage, you may use any source code editing tool which are designed specifically to author and edit source code of programs written by programmers. Some of these editors can be run within the browser or require installation (e.g. standalone application). Some of the top, well-known source code editors used by web developers and programmers include:

- [Atom](#)
- [Brackets](#)
- [Eclipse](#)
- [Visual Studio Code](#)
- [TextMate](#)
- [Notepad++](#)
- [Xcode](#)
- [gedit](#)
- among many others

Many of these source code editors can run on various platforms (i.e. macOS, OS X, Windows, Linux). These editing tools are not intended to replace integrated development environments (IDEs) but provide simpler or faster ways to write source code in many languages. These tools provide basic IDE features such as syntax highlighting, indentation, autocomplete, etc. Although these editors are equipped with built-in compilers, interpreters and debuggers, they provide lightweight development environment compared to IDEs.

For this tutorial, we will use Visual Source Code (supports Windows, Linux and OS X).

### Part 2: Webpage Specifications

A company that specializes in building webpages for iconic TV and movie characters has created a simple webpage in HTML for Lisa Simpson. However, this webpage is not yet complete and requires some work to be done with respect to the overall design and formatting. You have selected you to enhance their HTML and mockup and create an external CSS that will accomplish their design goal. The company has asked that you do not modify the HTML file under any circumstances and you can control the formatting via an external cascading style sheet called tutorial1.css.

The company has provided you with tutorial1.html and given you a mockup (which was designed by some image editing software) below. They have asked you to turn this HTML to resemble the mockup below. You can download the necessary files for tutorial 1 from Canvas → Module 1 → tutorial 1 → tutorial1.zip. In this compressed file, you will find the images, an HTML file (tutorial1.html) and an incomplete style sheet file (tutorial.css) provided by the company.

## Mockup



**Lisa**

Travel Adventures

HOME ABUT ME DESTINATIONS CONTACT



June 22: My travel adventure to the Conservatory Pond in Central Park ...

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 I LOVE TO TRAVEL AROUND THE WORLD!

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec quis pretium neque. Mauris suscipit neque nec eros egestas, et consectetur eros rutrum. Nunc vel elit purus. Aliquam sit amet sem vel odio fermentum lobortis. Cras pharetra libero eu massa bibendum, et gravida arcu feugiat. Proin congue lorem id auctor convallis. Nullam ut efficitur quam. Interdum et malesuada fames ac ante ipsum primis in faucibus. Duis sit amet nunc nec lectus rhoncus egestas. Morbi commodo suscipit leo, at facilisis dolor dignissim id. Integer feugiat, dui ac hendrerit tristique, mi orci imperdiet risus, quis consequat turpis urna sed leo. Maecenas rutrum, massa sed ultrices dapibus, sem mauris varius leo, sed facilisis nibh nibh at tellus. Etiam nulla justo, mattis non fermentum eget, mattis sit amet felis. Quisque elit ipsum, euismod quis iaculis vel, tempor in dolor. Nam quis tristique lacus, eget pellentesque lectus.

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[DESTINATIONS](#)



[PLACES I VISITED](#)

|             |             |
|-------------|-------------|
| » Brasilia  | » Singapore |
| » Havana    | » Beijing   |
| » Stockholm | » Canberra  |
| » Dubai     | » London    |

## HTML Content and Style

The screenshot shows a website header with a logo of a cartoon character (Lisa Simpson) and the name "Lisa" next to it. Below the logo is the text "Travel Adventures". To the right is a navigation bar with links: HOME, ABUT ME, DESTINATIONS, and CONTACT. A red arrow points from the text "<header>" to the top section of the page. Another red arrow points from the text "<nav>" to the navigation bar.

**<div>**

**June 22: My travel adventure to the Conservatory Pond in Central Park ...**

**read more ▶**

The screenshot shows a main article area and a sidebar. The article has a title "I LOVE TO TRAVEL AROUND THE WORLD!" with an icon of a notepad. The sidebar has a title "ABOUT ME" with a cartoon image of Lisa Simpson. Below the sidebar is a section for social media links with icons for Facebook, Twitter, YouTube, LinkedIn, and RSS feed.

**<article>**

**I LOVE TO TRAVEL AROUND THE WORLD!**

**ABOUT ME**

**<aside>**

The screenshot shows a footer section with a "DESTINATIONS" heading and a row of six small images representing travel destinations. To the right is a "PLACES I VISITED" section with a list of cities: Brasília, Singapore, Havana, Beijing, Stockholm, Canberra, Dubai, and London. A red arrow points from the text "<footer>" to the bottom right corner of the page.

**<footer>**

**DESTINATIONS**

**PLACES I VISITED**

- » Brasília      » Singapore
- » Havana      » Beijing
- » Stockholm    » Canberra
- » Dubai        » London

We would like to complete the stylesheet such that it closely resembles the mockup provided. To assist you in determining which sections require completion in the style sheet file, areas in the stylesheet that **require completion** are commented with `/* To be completed */`.

The following is a list of styles that require completion (names of the style section is provided below):

```
- body
    background: url('images/yellow_background.png')
    font-family: 'Trebuchet MS', Arial, sans-serif;
    color: #181818;

- section h1, footer h1, nav a
    font-family: Arial, serif;
    font-weight: normal;
    text-transform: uppercase;

- header
    background: url('images/line.png') repeat-x bottom;

- header_title
    display: inline-block;

- header h1
    font-family: 'Trebuchet MS', serif;
    font-size: 2.5em;
    font-weight: normal;

- header_picture
    display: inline-block;
    margin-bottom: 0px;
    width: 50px;
    height: 60px;

- nav
    display: inline-block;
    width: 740px;
    text-align: right;

- nav a
    font-size: 1.3em;
    color: #181818;
    padding-bottom: 3px;
    text-decoration: none;

- nav a:hover
    color: #760001;
    border-bottom: 3px solid #760001;
```

**- banner\_image**

```
margin-top: 15px;
height: 500px;
border-radius: 5px;
background: url('images/central-park.jpg') no-repeat;
position: relative;
box-shadow: 0px 4px 4px #1c1a19;
margin-bottom: 25px;
```

**- banner\_description**

```
position: absolute;
bottom: 0;
border-radius: 0px 0px 5px 5px;
width: 99.5%;
height: 33px;
padding-top: 15px;
padding-left: 4px;
background-color: #rgba(24,24,24,0.8);
color: white;
font-size: 0.8em;
```

**- banner\_button**

```
display: inline-block;
height: 25px;
position: absolute;
right: 5px;
bottom: 5px;
background: url('images/red_background.png') repeat-x;
border: 1px solid #760001;
border-radius: 5px;
font-size: 1.2em;
text-align: center;
padding: 3px 8px 0px 8px;
color: white;
text-decoration: none;
```

**- aside**

```
position: relative;
width: 235px;
background-color: #706b64;
box-shadow: 0px 2px 5px #1c1a19;
border-radius: 5px;
padding: 10px;
color: white;
font-size: 0.9em;
```

**- footer**

```
background: url('images/top.png') no-repeat top center,
            url('images/line.png') repeat-x top,
            url('images/shadow.png') repeat-x top;
padding-top: 25px;
```

```
- footer_content_list ul
    display: inline-block;
    vertical-align: top;
    margin-top: 0;
    width: 48%;
    list-style-image: url('images/external_link.png');
    padding-left: 2px;

- footer_content_list a
    text-decoration: none;
    color: #760001;

- footer_images
    width: 74%;

- footer_content_list
    width: 25%;
```

### ***Extending this tutorial:***

- Modify the web page and CSS file such that the pictures that appear in the **Destinations** and **About Me** sections using **sprites**, one for each section. You may use any online tool to create the sprite.



- Below is a URL of a website that can create image sprites.

<https://cssspritestool.com>