



HTML5 Part 1

Fundamentals

Week 1 – Full-Stack DPP Course



Welcome

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Part 1 Outline

- HTML5 Overview
- The CASE STUDY
- Site Map, Wireframes and Style Tile
- Open a Hosting Account with one.com
- Create a FREE GitHub Account
- Semantic Markup
- HTML5 Strategy
- Build Website Skeleton (hands-on practice)



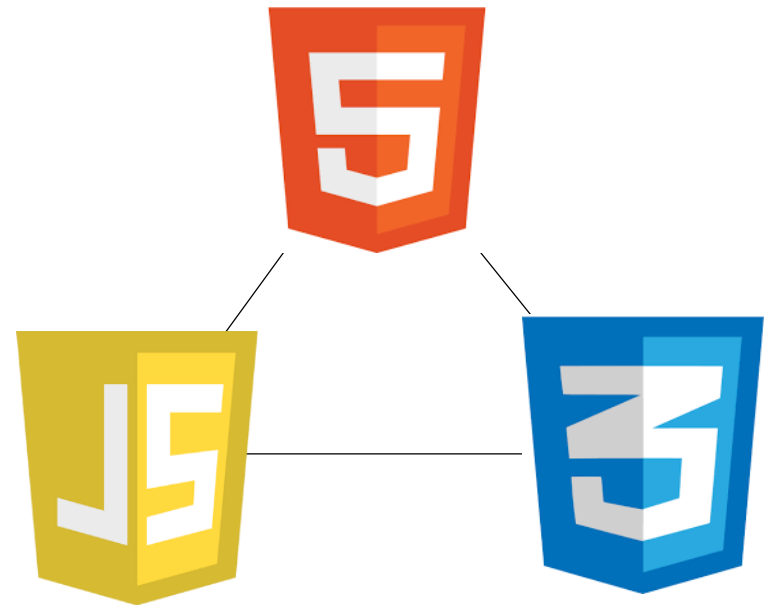
Part 1 Learning Objectives

- Learners would have a good understanding of:
 - What is HTML5
 - HTML5 new features and semantic elements
 - What are site maps, wireframes and style tile
 - Create webpage structure from scratch
 - Deploy HTML5 semantic tags
 - HTML5 attributes and their use
 - How to build the skeleton of a website



The Web Development Trifecta

- **HTML5** – structures and describes Web page content
- **CSS3** – provides the formatting and "look" of a Web page
- **JavaScript** – adds interactive, dynamic capabilities to Web pages



What is HTML5?

- Is a **collection** of **standards** including CSS3 and JavaScript are part of the new **definition**:
 - HTML5 is the newest version of HTML and replaces HTML4
 - Eliminates the need and use of plugins such as **Flash** and **Silverlight**
 - HTML5 is cross-platform application
 - Visit the W3C website for:

HTML5 History



HTML5 New Features

New elements and attributes

Support for CSS3

New form controls

Video and audio integration

Graphics using Canvas

SVG

Drag and drop

Web storage

Geolocation



HTML5 New Semantic Elements

(block elements)

Section

Nav

Header

Article

Footer

Aside

Figure

Figcaption

Address

Video and Audio

Canvas

Summary and
Details

[w3schools HTML tags](#)

[Periodic HTML table](#)



HTML5 New Semantic Elements (inline elements)

Mark

Meter

Progress

Output

Time

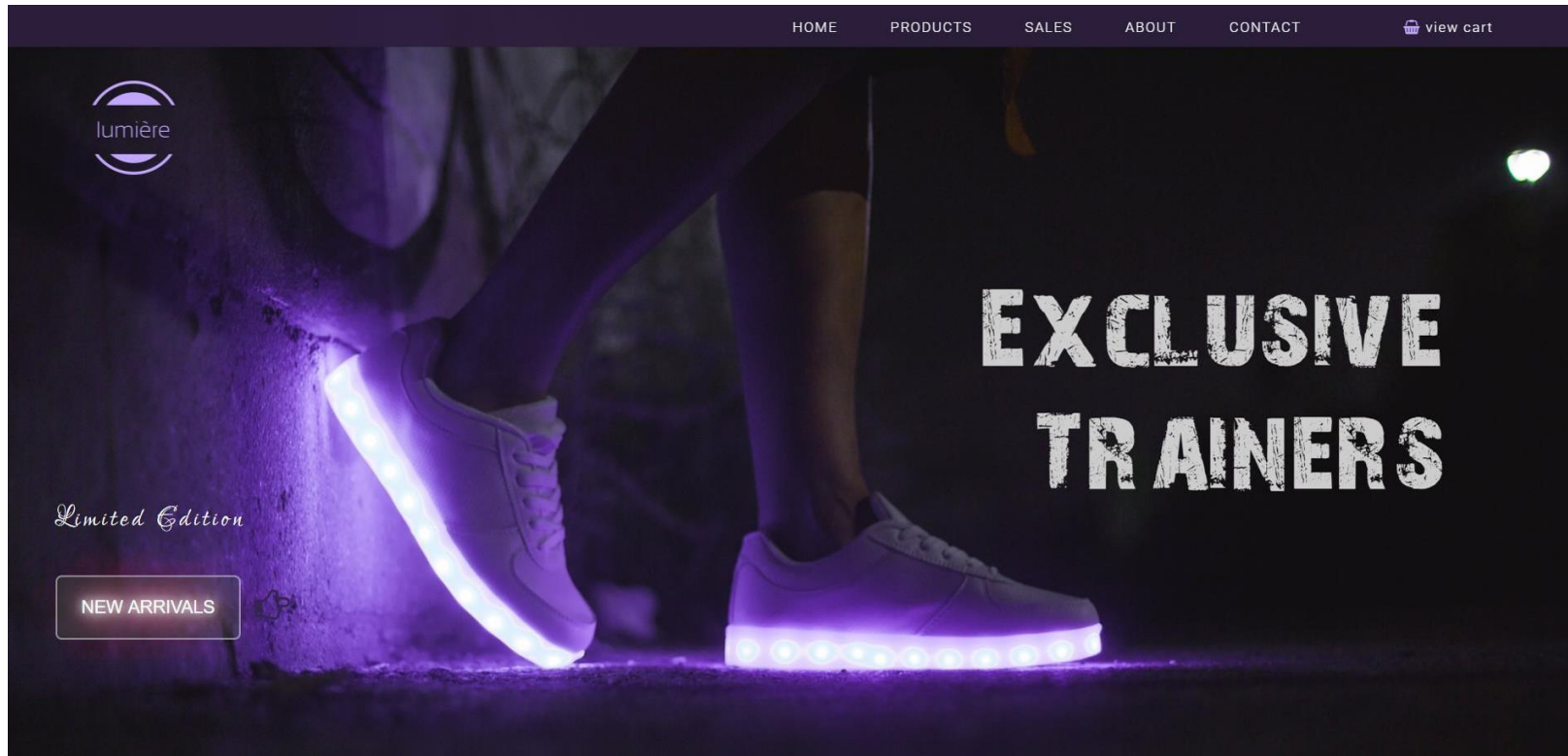
[w3schools HTML tags](#)

[Periodic HTML table](#)



Hand coding from scratch

- Modern, user-friendly, interactive and responsive.



Website Site Map (single page)

Home Section or Landing Page

Products Section

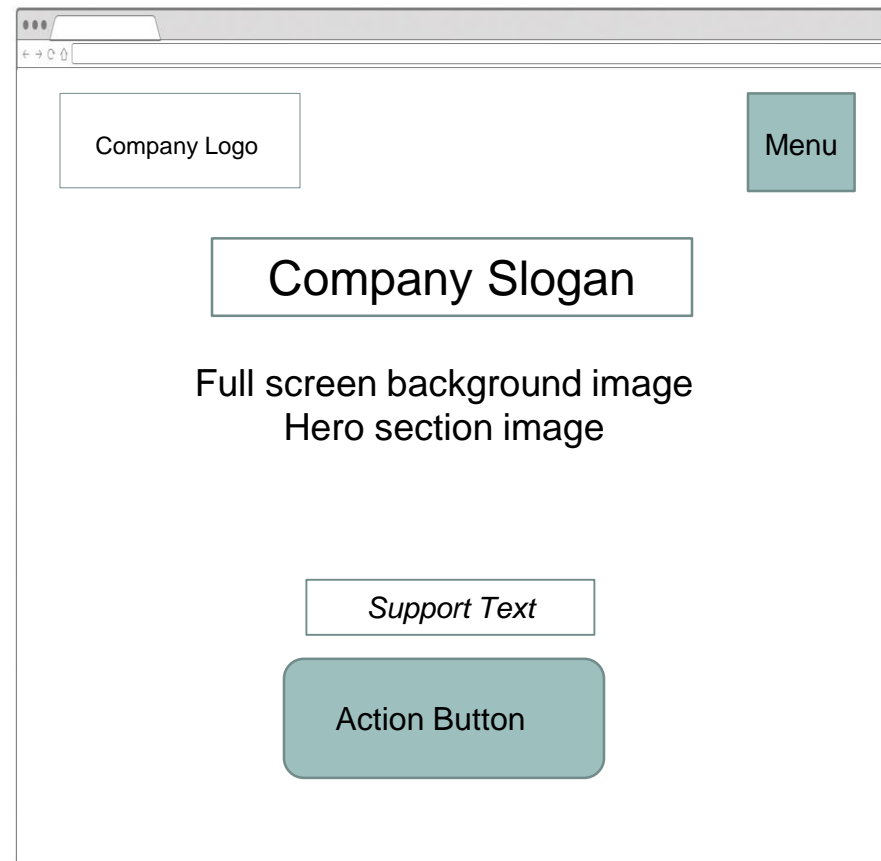
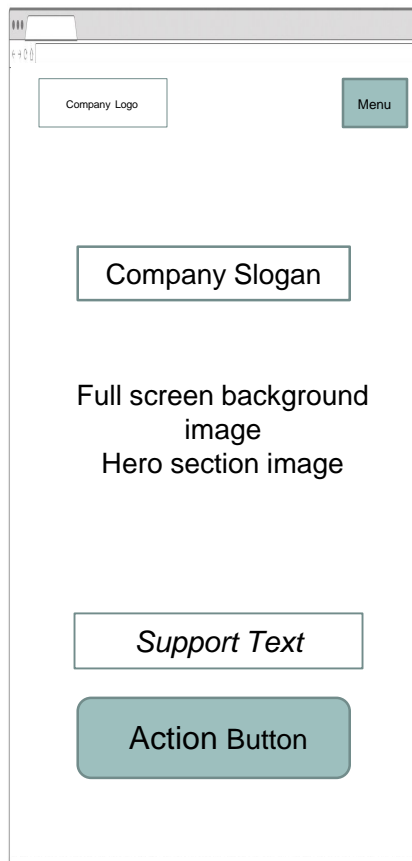
Sales Section

About Section

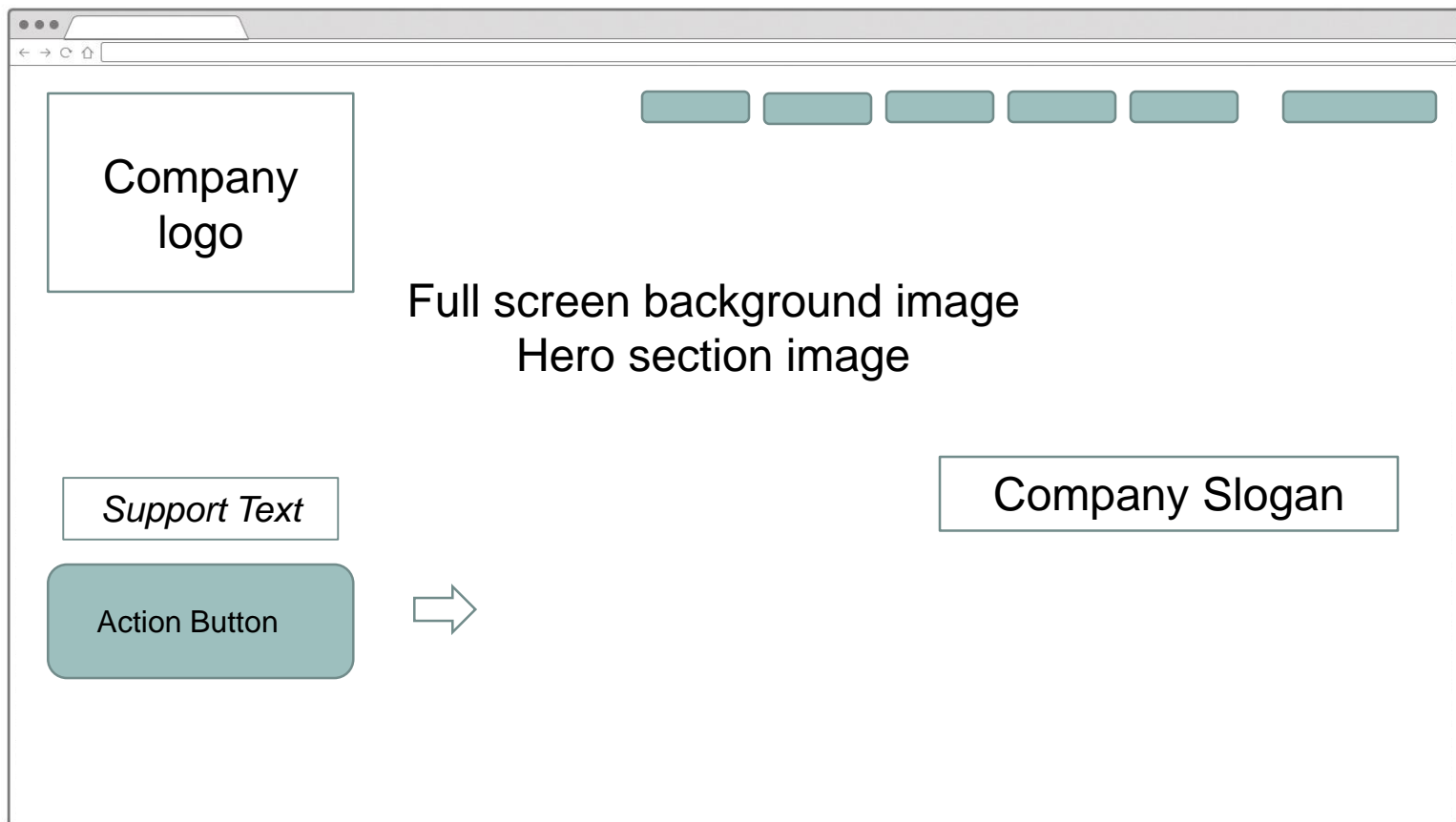
Contact Section



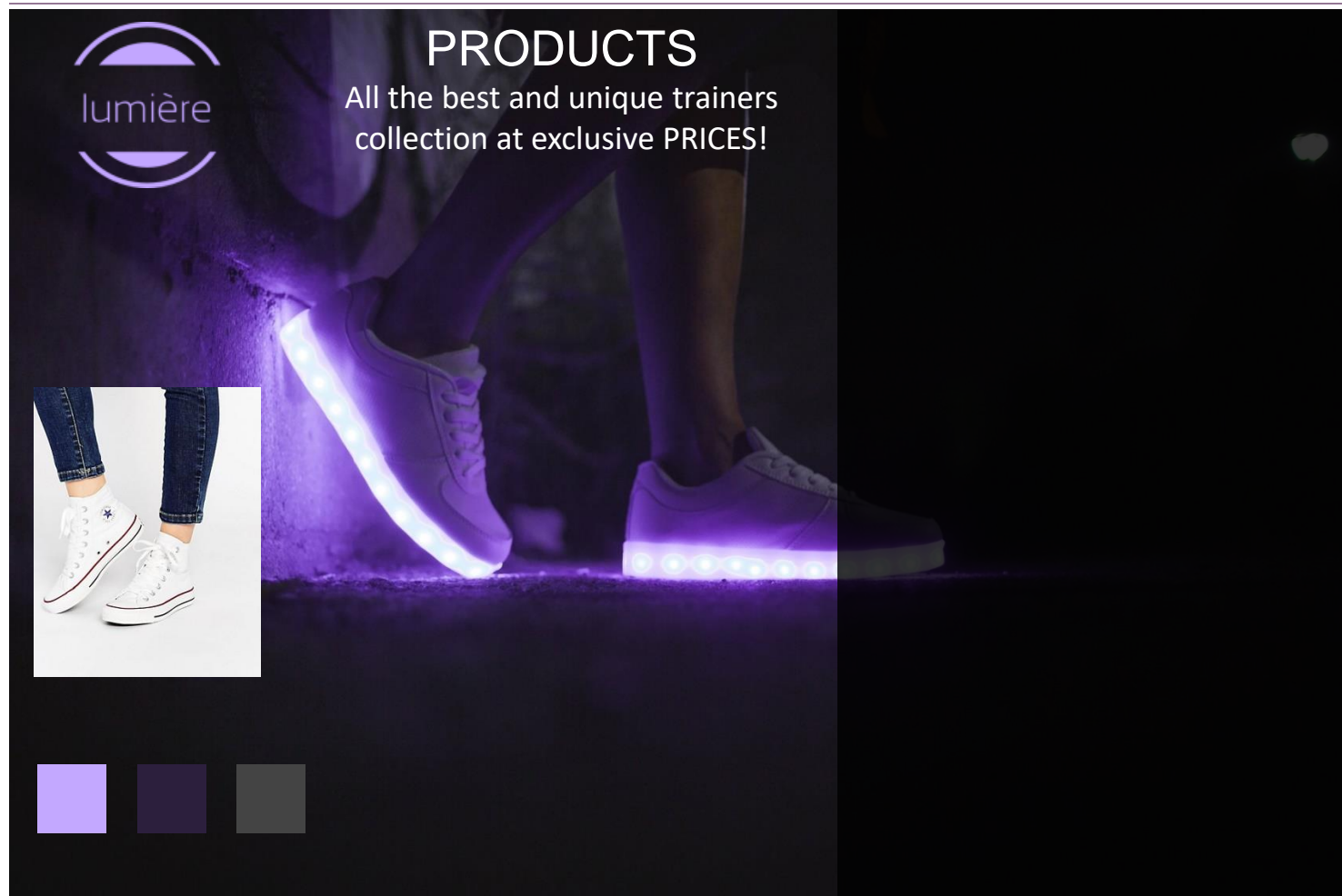
Website Wireframes



Website Wireframes



Website Style Tile

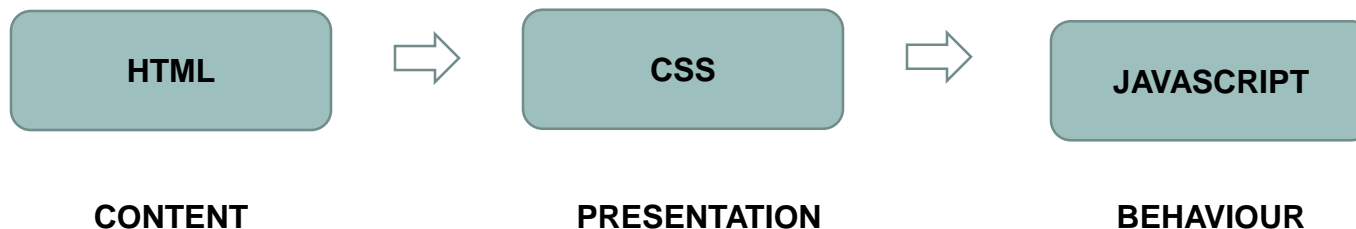


Semantic Markup and Separation of Concerns

Semantic HTML is the use of HTML **markup** to reinforce the **semantics**, or meaning, of the information in web pages and web applications rather than merely to define its presentation or look.

The practice of adding technology in layers to a website to ensure that if all fails, **content** can still be **accessed**.

Separation of concerns



Why Use Semantic Elements

There are many advantages for using Semantic HTML5 Elements:

- Makes the website meaningful to search engines
- Makes the code easier to maintain and readable
- Makes the website more accessible to people with disability

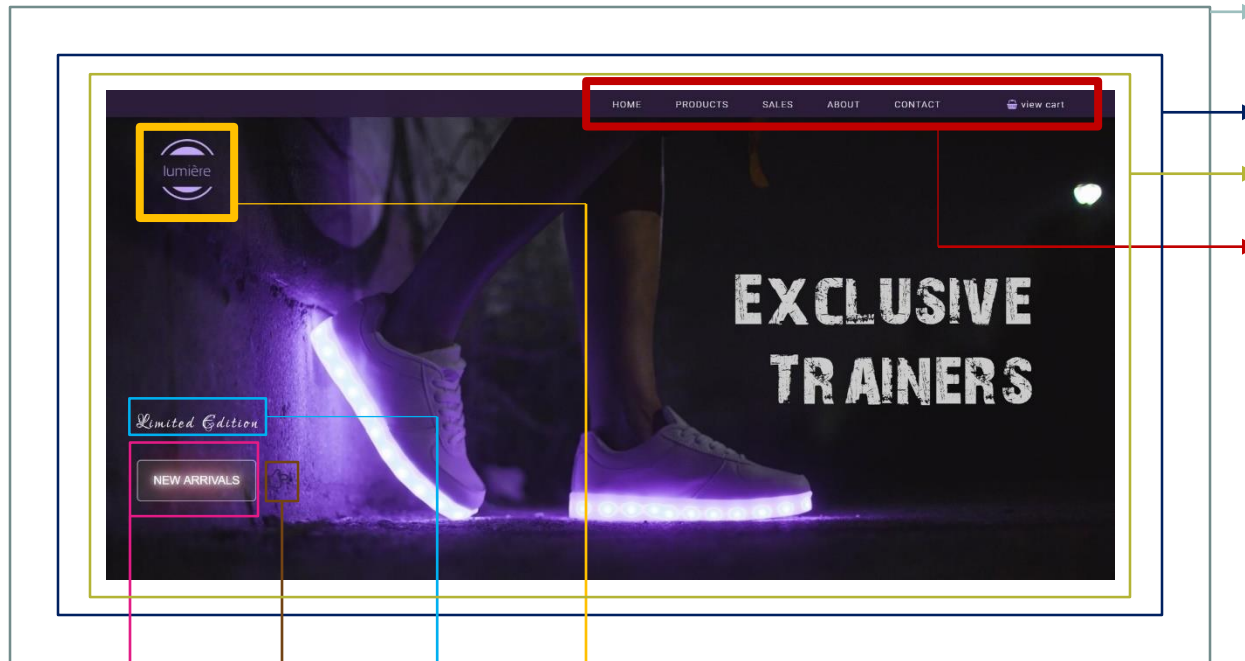
**SEARCH
ENGINES**

**MAINTAIN
CODE**

ACCESSIBILITY



HTML5 Strategy



<section>

<header>

<div> bg Image

<nav>

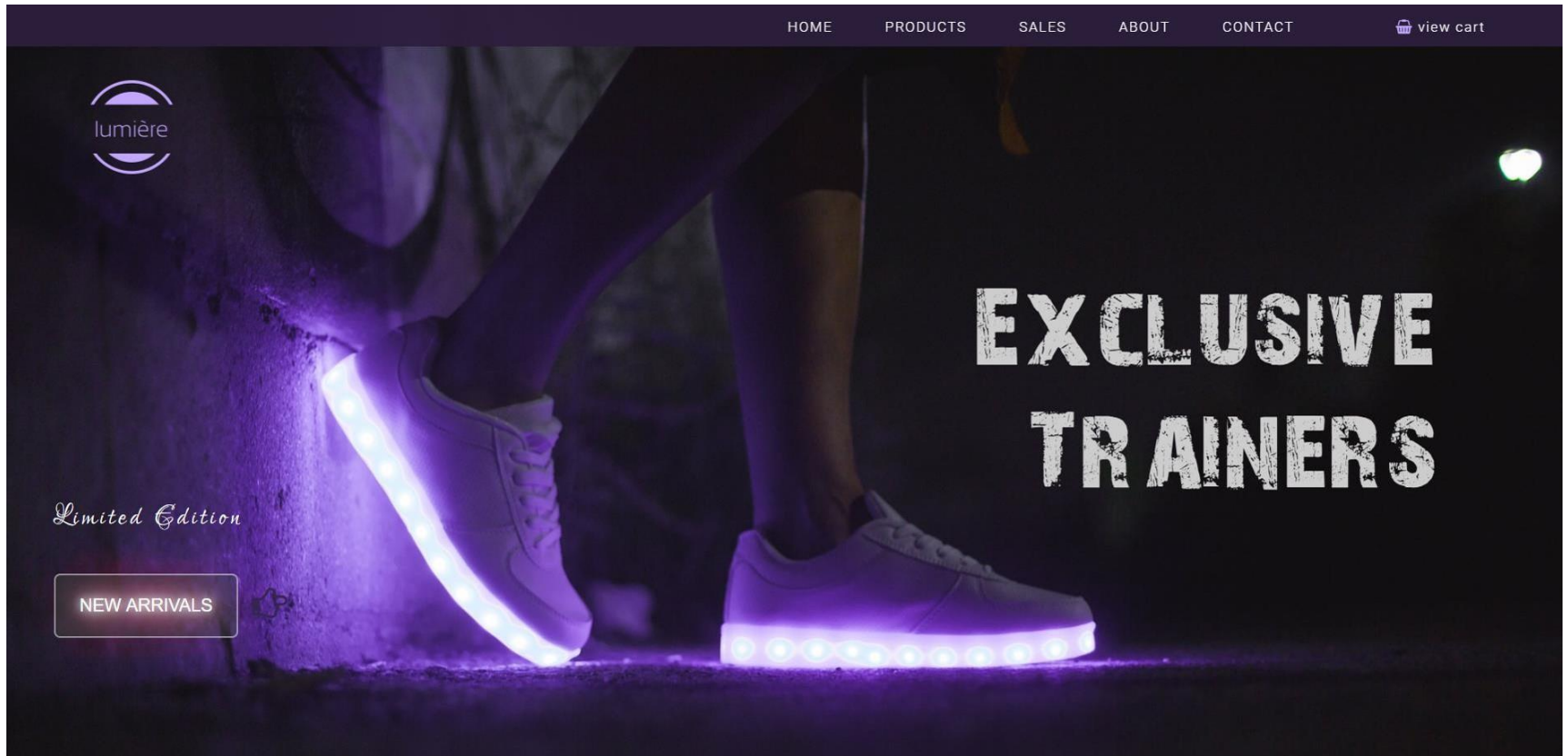
<a>

<div> **<div>** **<div>** **<div>**

<a> **<i>** **<a>** ****



The Case Study



Hosting account and GitHub

- Open a hosting account with one.com and also buy a domain name. Once that is done, we will create a FREE account with GitHub.

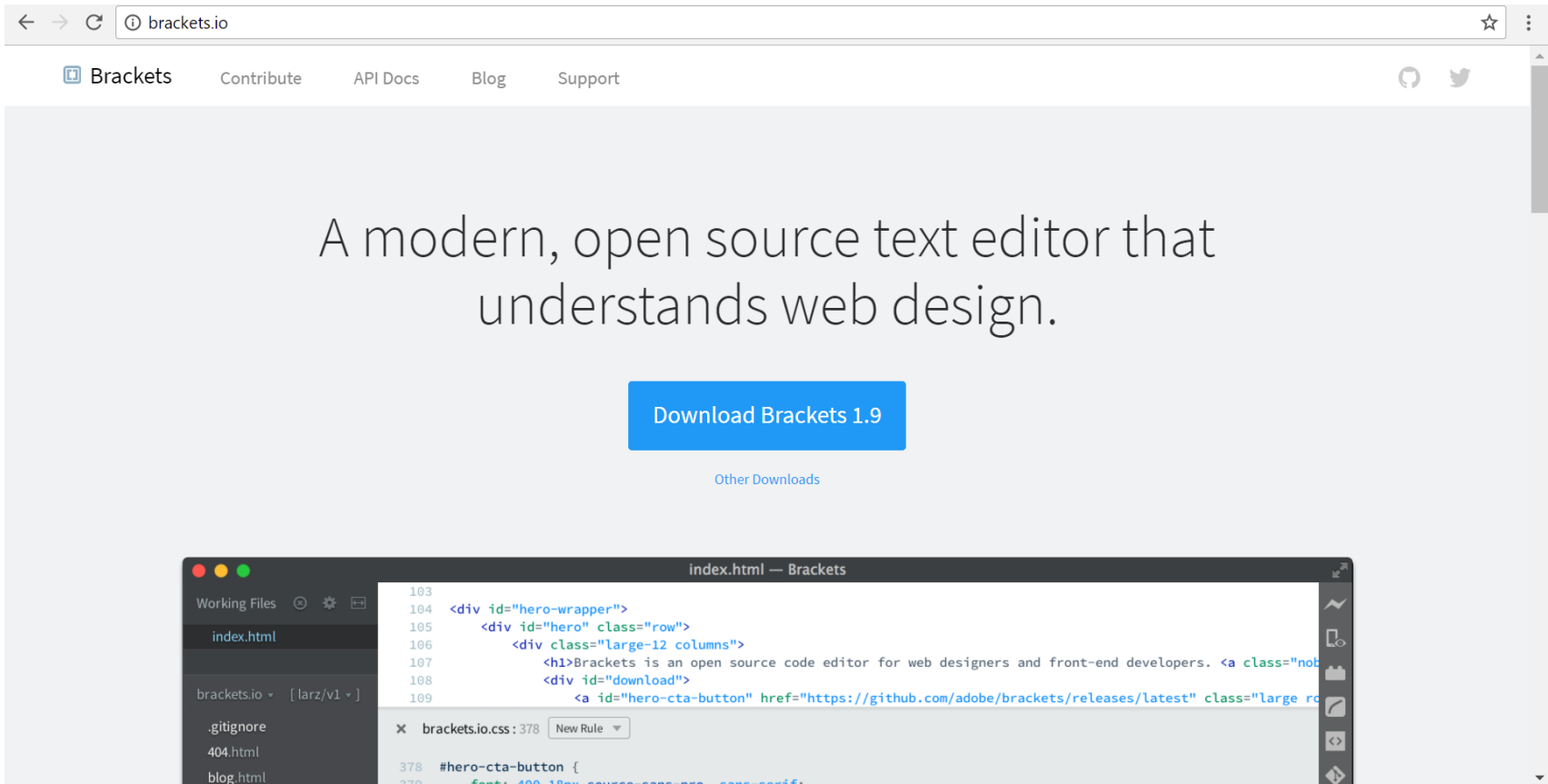
one.com

GitHub

**Pluralsight GitHub
Tutorial**



Text Editor



The image shows a screenshot of the Brackets.io website and the Brackets text editor interface. The website header includes navigation links: Brackets, Contribute, API Docs, Blog, and Support. The main content area features the text "A modern, open source text editor that understands web design." and a prominent blue button labeled "Download Brackets 1.9". Below this button is a link for "Other Downloads". The bottom portion of the image displays the Brackets text editor interface, showing a file explorer on the left with "index.html" selected, and the main editor area displaying HTML code for "index.html". The code includes a hero wrapper, a hero row, and a hero CTA button. The CSS file "brackets.io.css" is also visible in the editor.

← → ↻ ⓘ brackets.io ☆ ⋮

Brackets Contribute API Docs Blog Support

A modern, open source text editor that understands web design.

Download Brackets 1.9

[Other Downloads](#)

index.html — Brackets

```
103
104 <div id="hero-wrapper">
105   <div id="hero" class="row">
106     <div class="large-12 columns">
107       <h1>Brackets is an open source code editor for web designers and front-end developers. <a class="not
108       <div id="download">
109         <a id="hero-cta-button" href="https://github.com/adobe/brackets/releases/latest" class="large r
```

Working Files ⓘ ⚙️ ⌕

index.html

brackets.io ▾ [larz/v1 ▾]

.gitignore
404.html
blog.html

brackets.io.css: 378 New Rule ▾

```
378 #hero-cta-button {
379   font: 400 18px source-sans-pro, sans-serif;
```



Resources

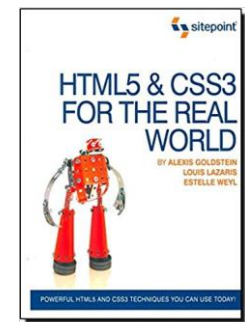
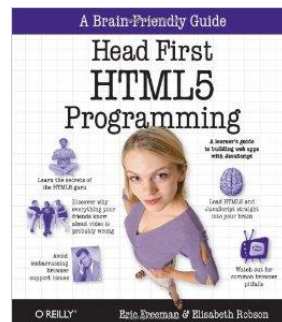
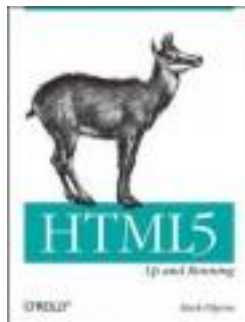
- Pluralsight video tutorials

Introduction to
Web
Development

Learn Basic
HTML5 & CSS3
Beginner -
Pluralsight

HTML5
Fundamentals
Beginner -
Pluralsight

- HTML5 & CSS3 (Note: The books are only suggestions)



Resources cont.

- Relevant HTML5 websites for sample codes, examples and general information.

HTML5 w3schools

W3C

HTML5 MDN

Stack Overflow

Can I Use

Awwwards



Download Files

Login into your VLE, look for HTML5 and CSS3 folder.
Inside the folder click on HTML5 Part 1.

or

Access my GitHub account and download the
HTML5 Part1 folder.

GitHub Account



Any Questions?

Let's code

