HTML5 Party 1

Fundamentals

Week 1 – Full-Stack DPP Course

Welcome

Manuel Cubuca

Technical Trainer

manuelc@justit.co.uk

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
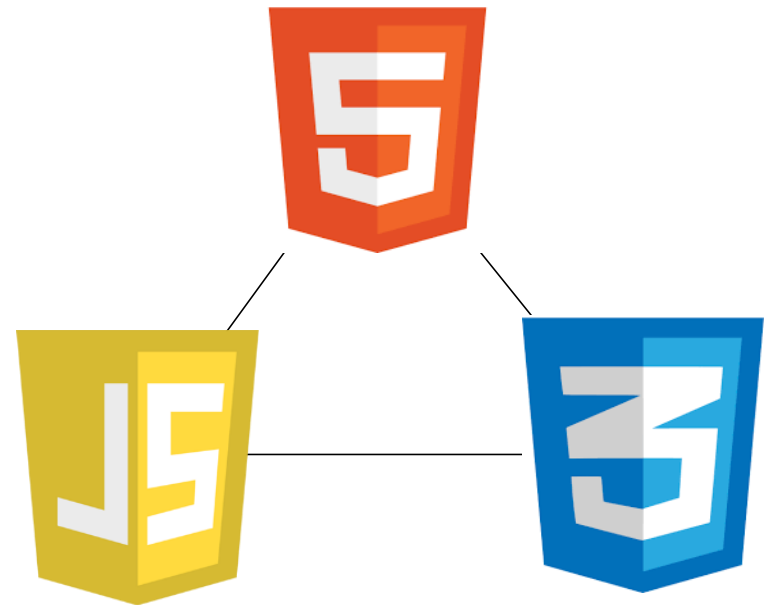
What is HTML5?

- 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

JUST IT
Making IT Happen

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.
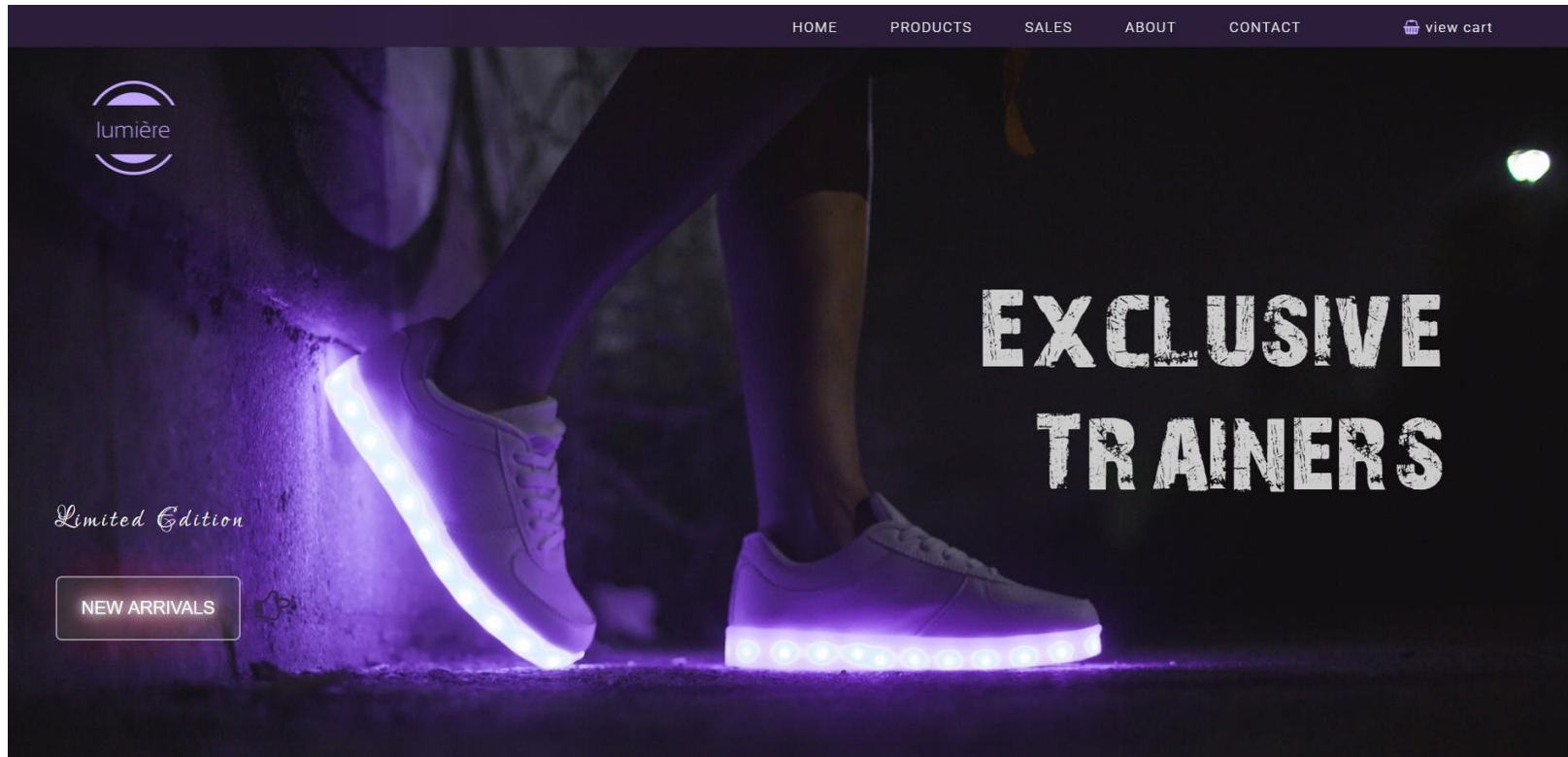
Website Site Map (single page)

Home Section or Landing Page

Products Section

Sales Section

About Section

Contact Section
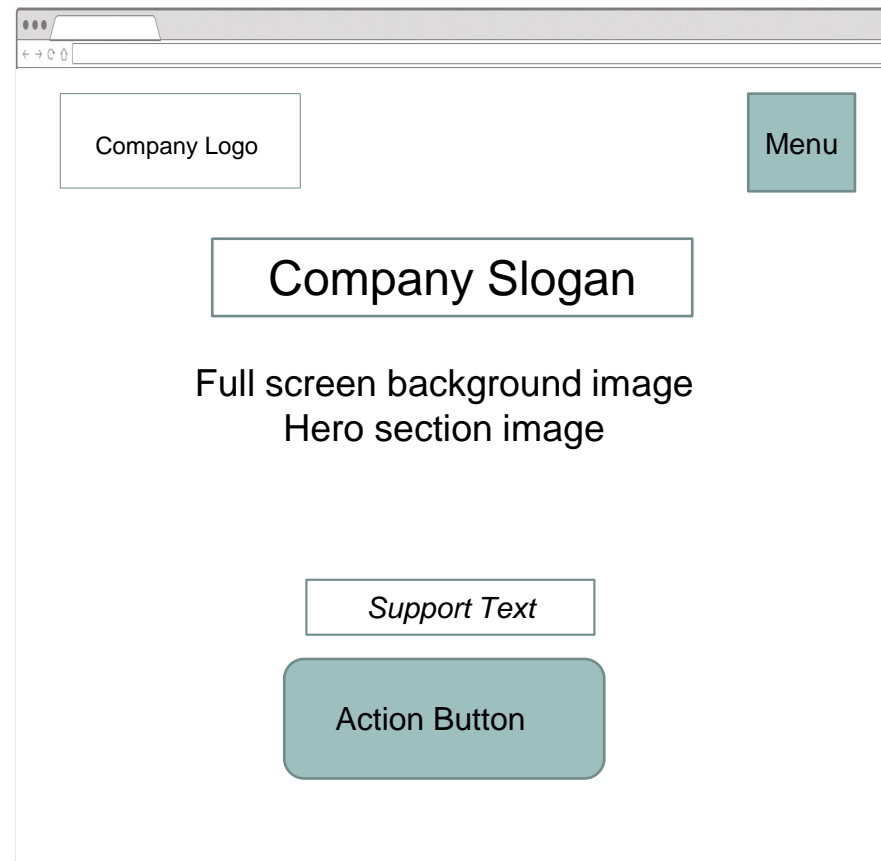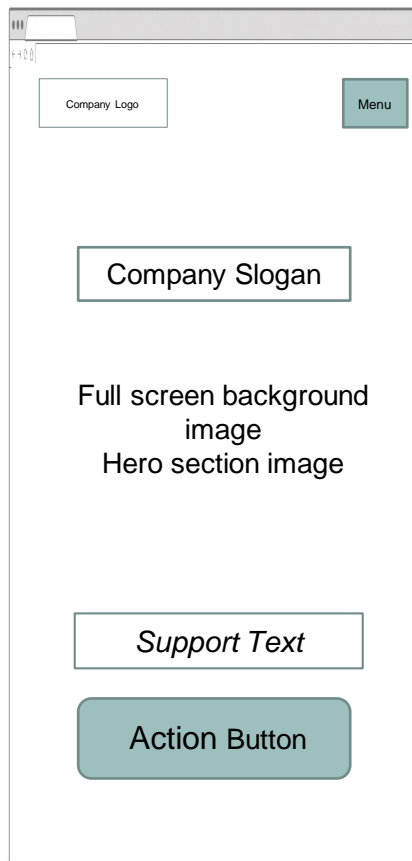
Website Wireframes

Website Wireframes

Company logo

Full screen background image
Hero section image

Support Text

Action Button

Company Slogan

Website Style Tile

PRODUCTS
All the best and unique trainers
collection at exclusive PRICES!
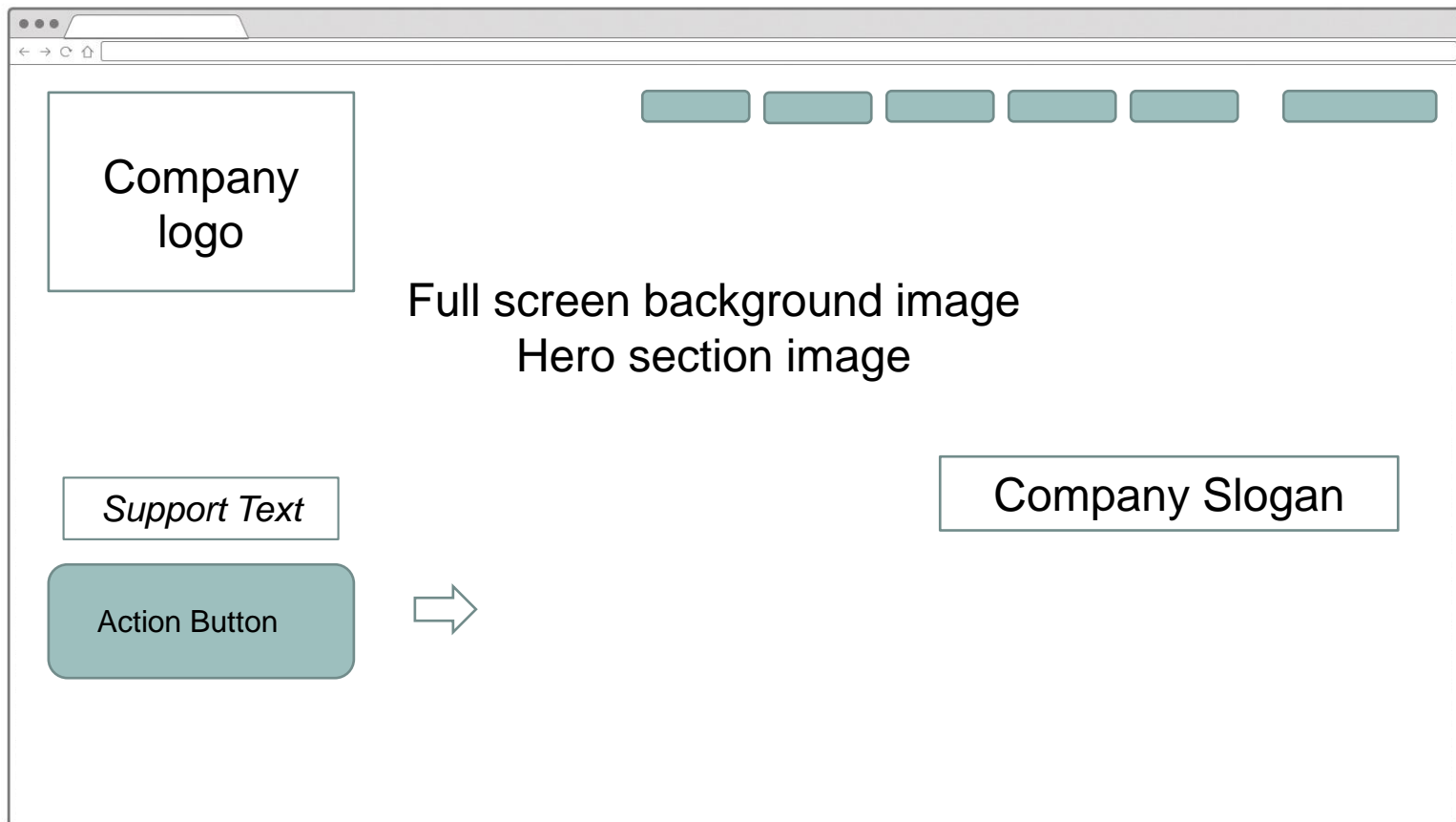
lumière
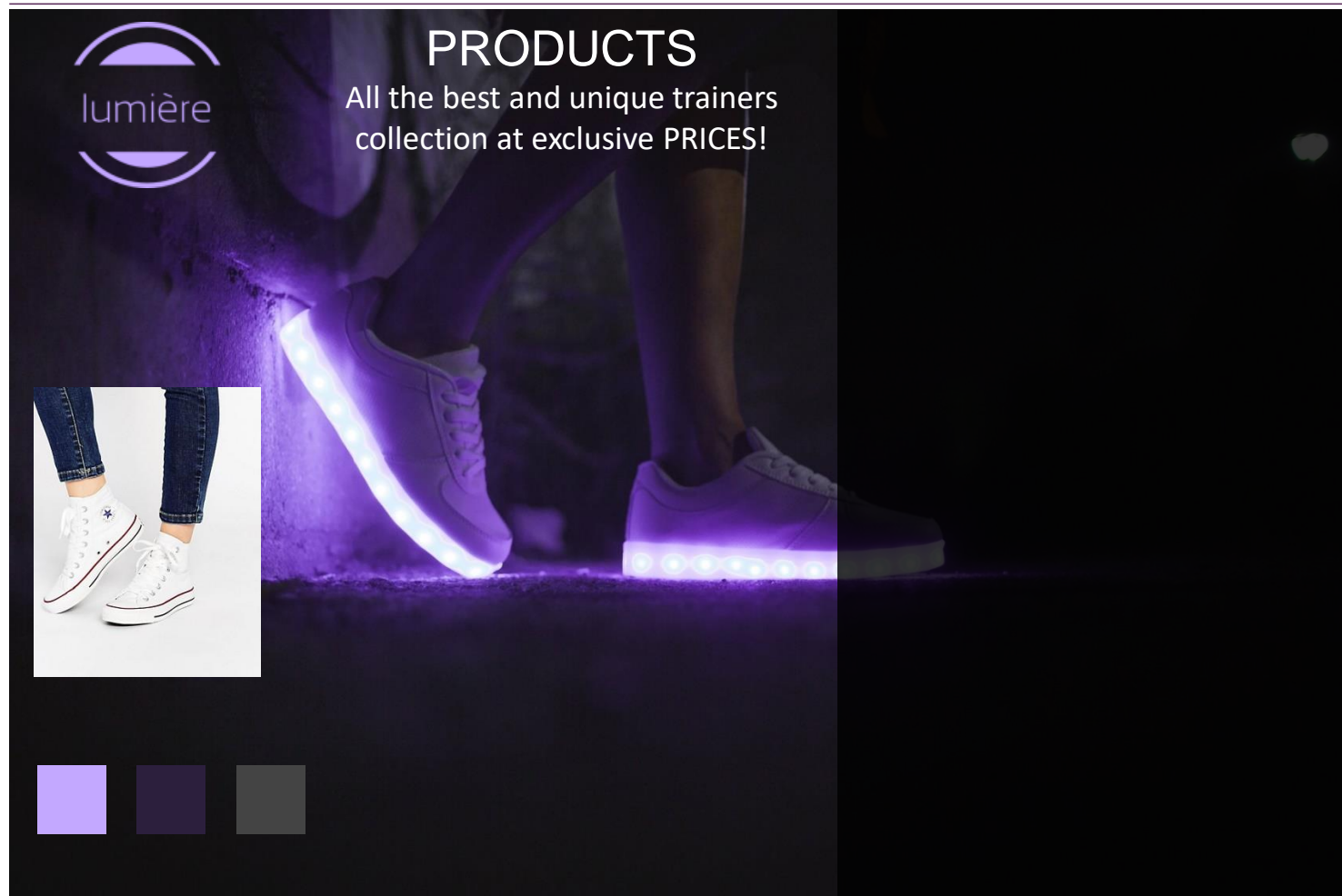
Semantic Markup and Separation of Concerns

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

HTML	⇨	CSS	⇨	JAVASCRIPT
CONTENT		**PRESENTATION**		**BEHAVIOUR**
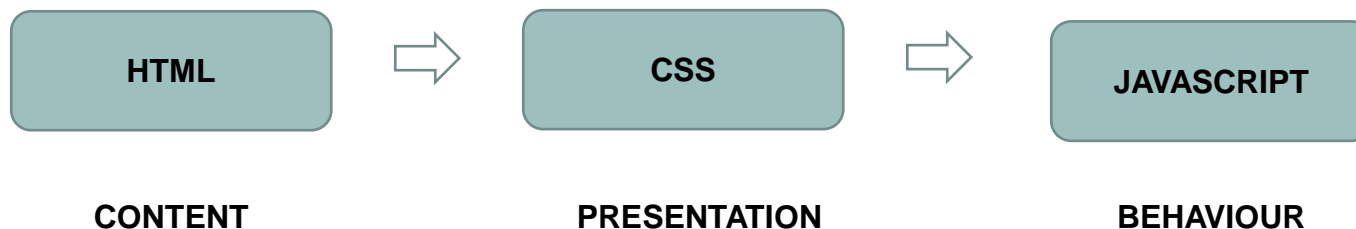
Why Use Semantic Elements

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>
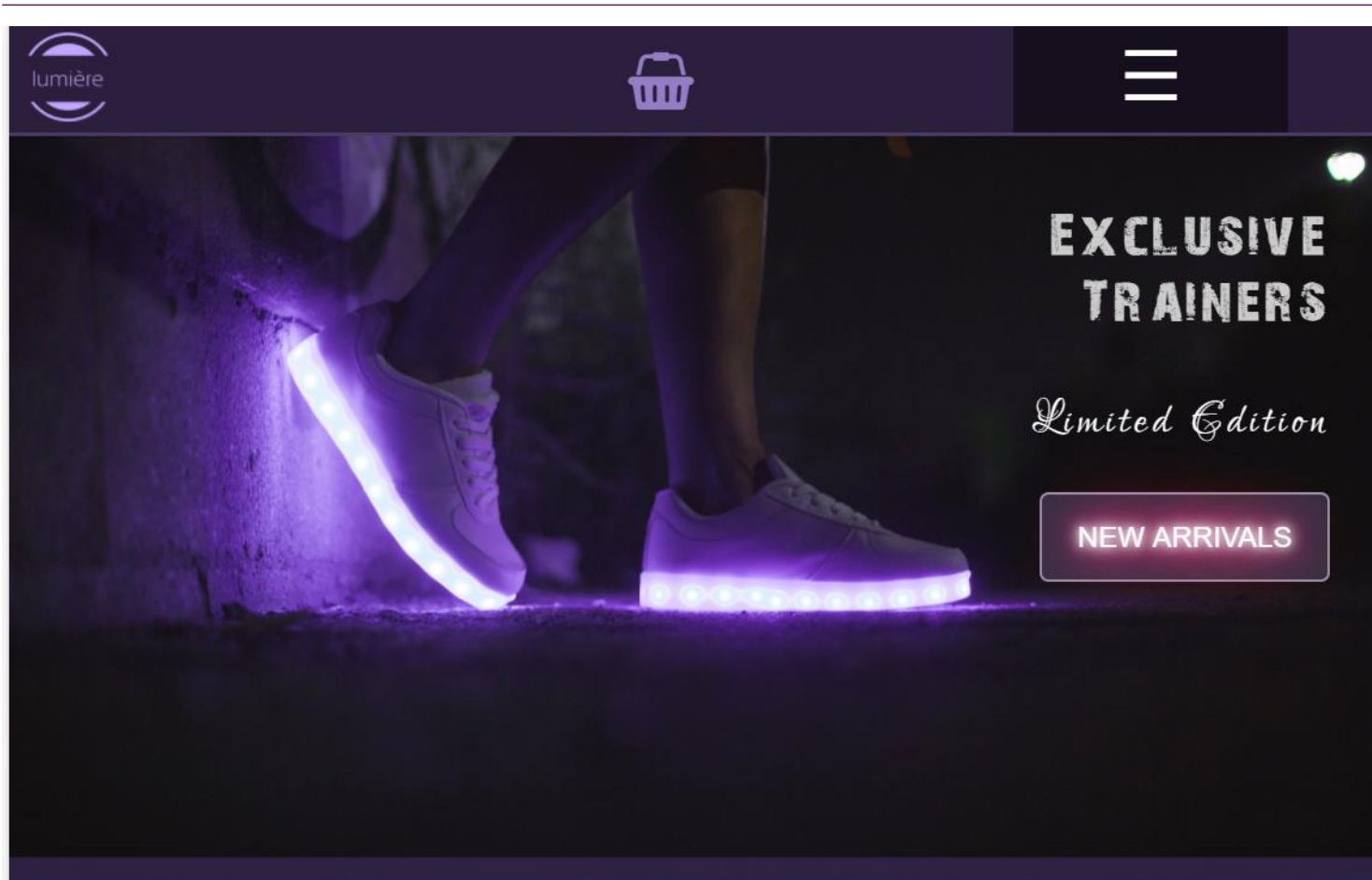
<header>
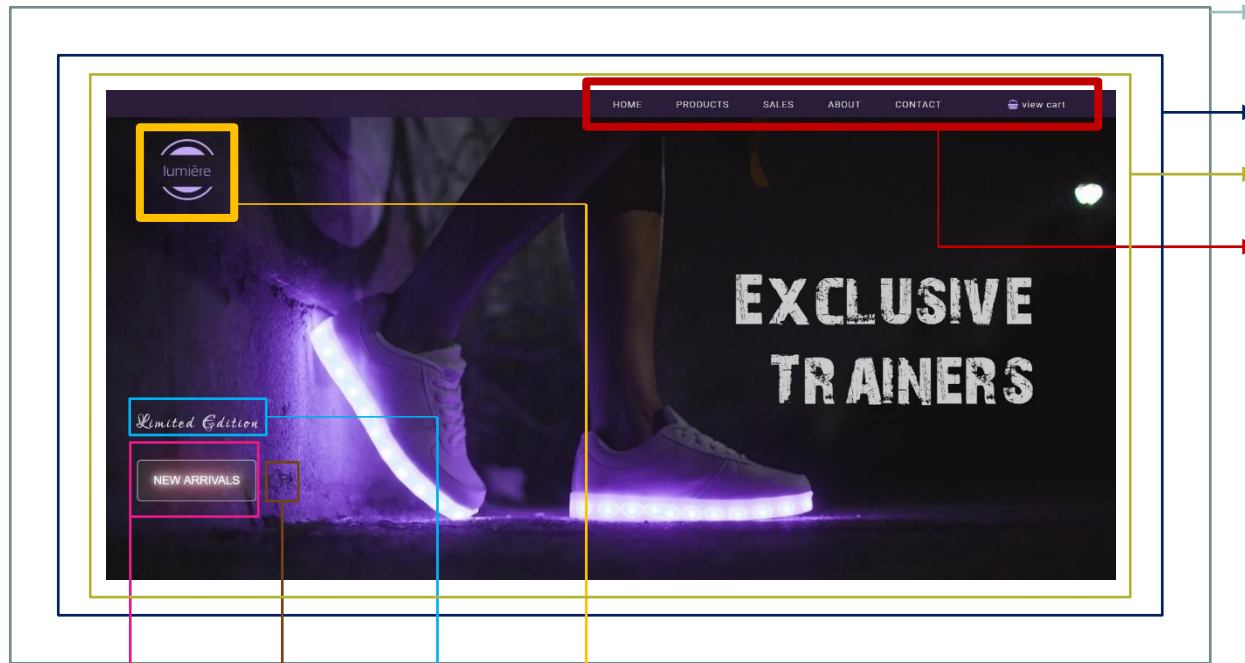
<div> bg Image

<nav>

<ul>

<li>

<a>

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

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

<span>

The Case Study Desktop
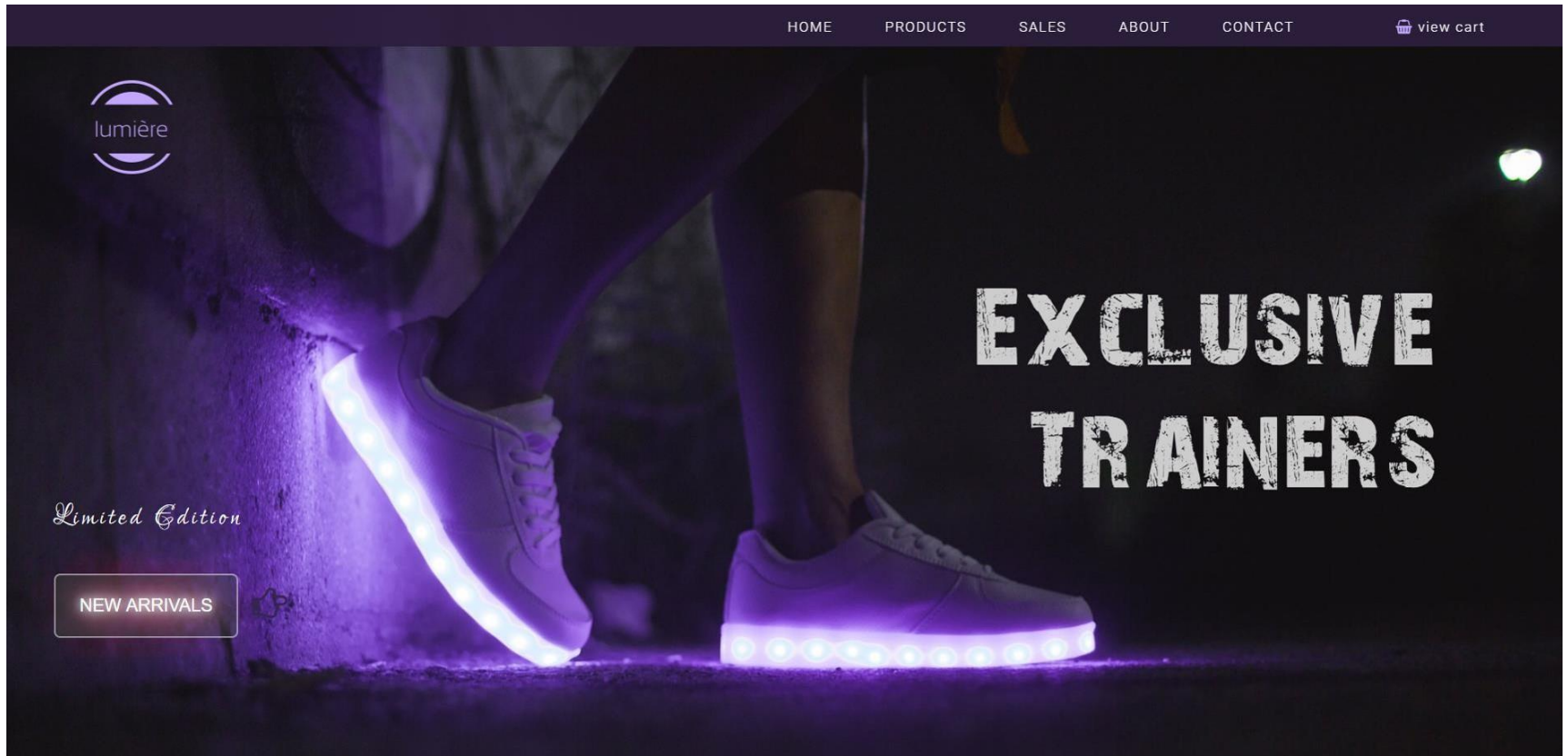
The Case Study Mobile

The Case Study Tablet

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.
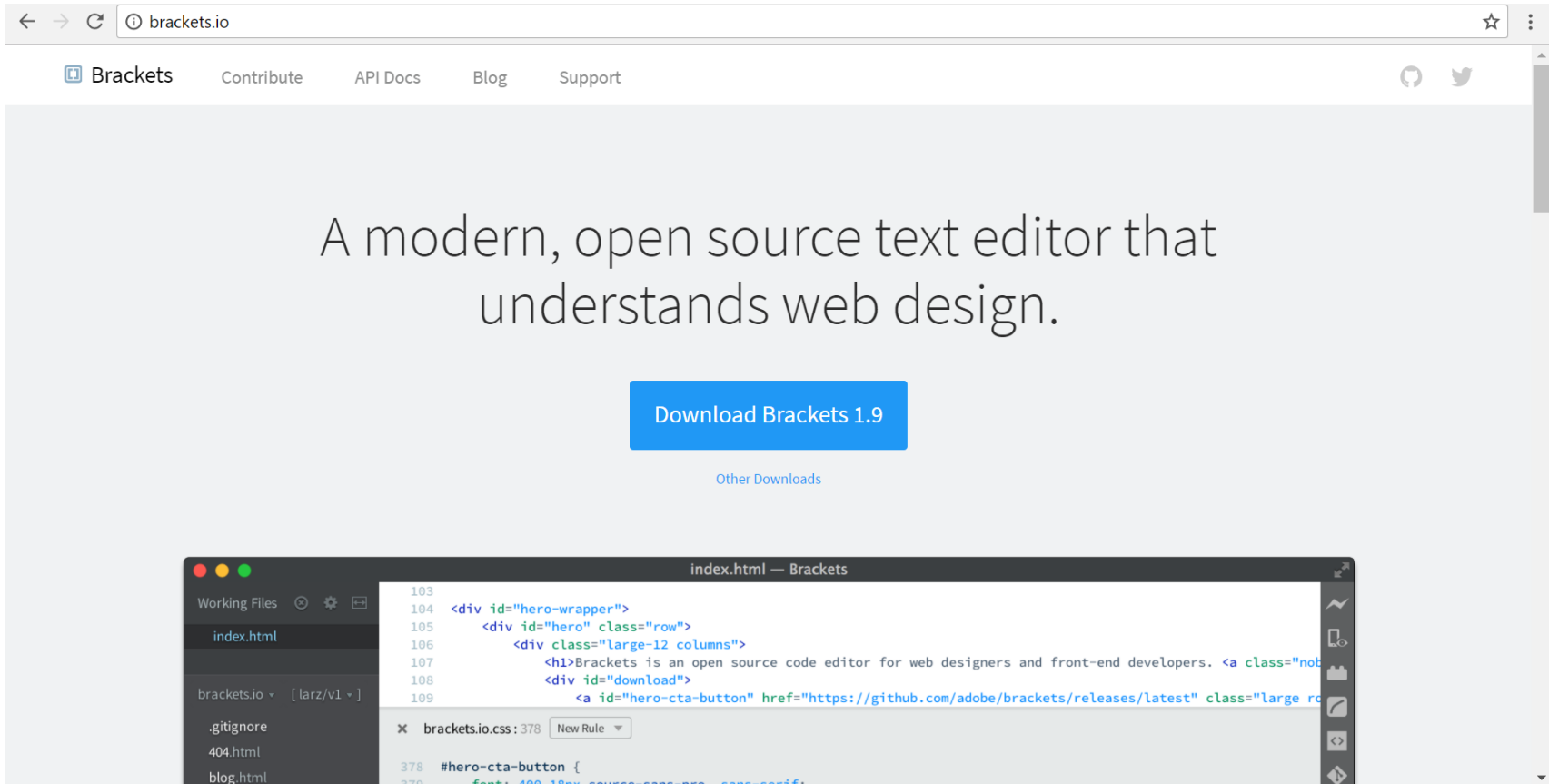
one.com

GitHub

Pluralsight GitHub Tutorial

Text Editor

Resources

- Pluralsight video tutorials

- HTML5 & CSS3 (**Note**: The books are only suggestions)
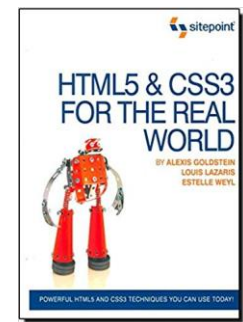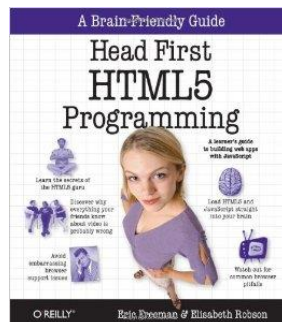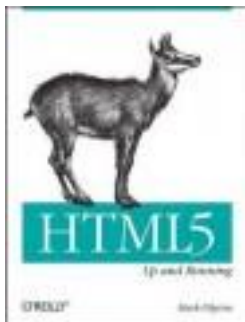
Resources cont.

- 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