HTML

HTML, or HyperText Markup Language, is the vernacular used to markup the structure of a webpage. It is the basis of all webpages by noting the structural areas, whether text, images, links or other content, and how it should be displayed in a browser. Although HTML is a standard language, it is not a programming language; rather, it is a markup language. Markup meaning to "markup" content by using a series of tags. Each and every website you see on the internet, although in the form of a computer file, lives on a webpage incorporating HTML.

Roles of HTML

HTML's primary role is to create the framework for webpages, so that the content (text, images, links, etc.) can be identified and structured in a meaningful way. HTML offers browsers the ability to know which (content) parts of the page mark up something, be it a heading, paragraph, image or link. HTML, through its many semantic tags, is also important to accessibility and SEO (Search Engine Optimization), as it gives meaning to the content within the structure. In a way, you could think of the HTML as the skeleton of a website.

Tags:

Tag	Description
<!DOCTYPE html>	Defines the HTML version being used.
<html>	Root of an HTML document.
<head>	Contains meta info, title, and links.
<title>	Defines the title of the page (appears in browser tab).
<body>	Holds all visible page content.
<h1> – <h6>	Defines headings from largest to smallest.
<p>	Defines a paragraph.
<a>	Creates a hyperlink.
<img>	Embeds an image.
 	Inserts a line break.
	Creates an unordered (bulleted) list.
	Creates an ordered (numbered) list.
	Defines a list item.
<table>	Creates a table.
<form>	Defines a form for user input.

Element:

Element	Description
Heading	A level 1 heading element.
Subheading	A level 2 heading element.
This is a paragraph.	A paragraph element.
Click here	A link element.
<img src="image.jpg" alt="Example">	An image element.
 	A line break element (empty).
Item	An unordered list with list items.
First	An ordered list with list items.
<table><tr><td>Data</td></tr></table>	A table with rows and cells.
<input type="text">	A text input element.
<button>Submit</button>	A button element.
<textarea>Write here</textarea>	A multi-line text box element.
<select><option>Option 1</option></select>	A dropdown select element.
<header>Site Header</header>	A semantic header element.
<footer>Site Footer</footer>	A semantic footer element.

Example:

Example > Html.html > ...

```html
<html lang="en">
<body>
  <main>
    <section id="shop" aria-labelledby="shop-heading">

      <article>
        <h3>WorkMate 17</h3>
        <p>Intel i9 • RTX A2000 • 64GB • 2TB • 17" QHD • 2.6 kg</p>
        <p>Price: $2,499</p>
        <p>
          <a href="#">Details</a> |
          <a href="#">Add to Cart</a>
        </p>
      </article>
      <hr>
    </section>

    <!-- Simple comparison table (no CSS) -->
    <section id="compare" aria-labelledby="compare-heading">
      <h2 id="compare-heading">Quick Compare</h2>
      <table border="1" cellpadding="6" cellspacing="0">
        <thead>
          <tr>
            <th>Model</th>
            <th>CPU</th>
            <th>GPU</th>
            <th>RAM</th>
            <th>Storage</th>
            <th>Screen</th>
            <th>Weight</th>
            <th>Price</th>
          </tr>
        </thead>
        <tbody>
          <tr><td>ZenBook Air 13</td><td>Intel i5</td><td>Intel Iris</td><td>16GB</td><td>512GB</td><td>13.3" FHD</td><td>1.1 kg</td><td>$999</td></tr>
          <tr><td>Pulse 15 Gaming</td><td>Ryzen 7</td><td>RTX 4060</td><td>16GB</td><td>1TB</td><td>15.6" 144Hz</td><td>2.2 kg</td><td>$1,399</td></tr>
          <tr><td>Creator Pro 16</td><td>Intel i7</td><td>RTX 4050</td><td>32GB</td><td>1TB</td><td>16" 4K OLED</td><td>1.9 kg</td><td>$1,899</td></tr>
          <tr><td>WorkMate 17</td><td>Intel i9</td><td>RTX A2000</td><td>64GB</td><td>2TB</td><td>17" QHD</td><td>2.6 kg</td><td>$2,499</td></tr>
        </tbody>
      </table>
      <hr>
    </section>

    <!-- Contact form (pure HTML) -->
    <section id="contact" aria-labelledby="contact-heading">
      <h2 id="contact-heading">Contact & Support</h2>
      <form>
        <p>
          <label for="name">Name:</label><br>
          <input id="name" name="name" type="text" required>
        </p>
        <p>
          <label for="email">Email:</label><br>
          <input id="email" name="email" type="email" required>
        </p>
        <p>
          <label for="msg">Message:</label><br>
          <textarea id="msg" name="message" rows="5" cols="30" required></textarea>
        </p>
        <button type="submit">Send</button>
      </form>
    </section>
  </main>

  <hr>
  <footer>
    <p>© 2025 ZenByte Laptops</p>
  </footer>
</body>
</html>
```
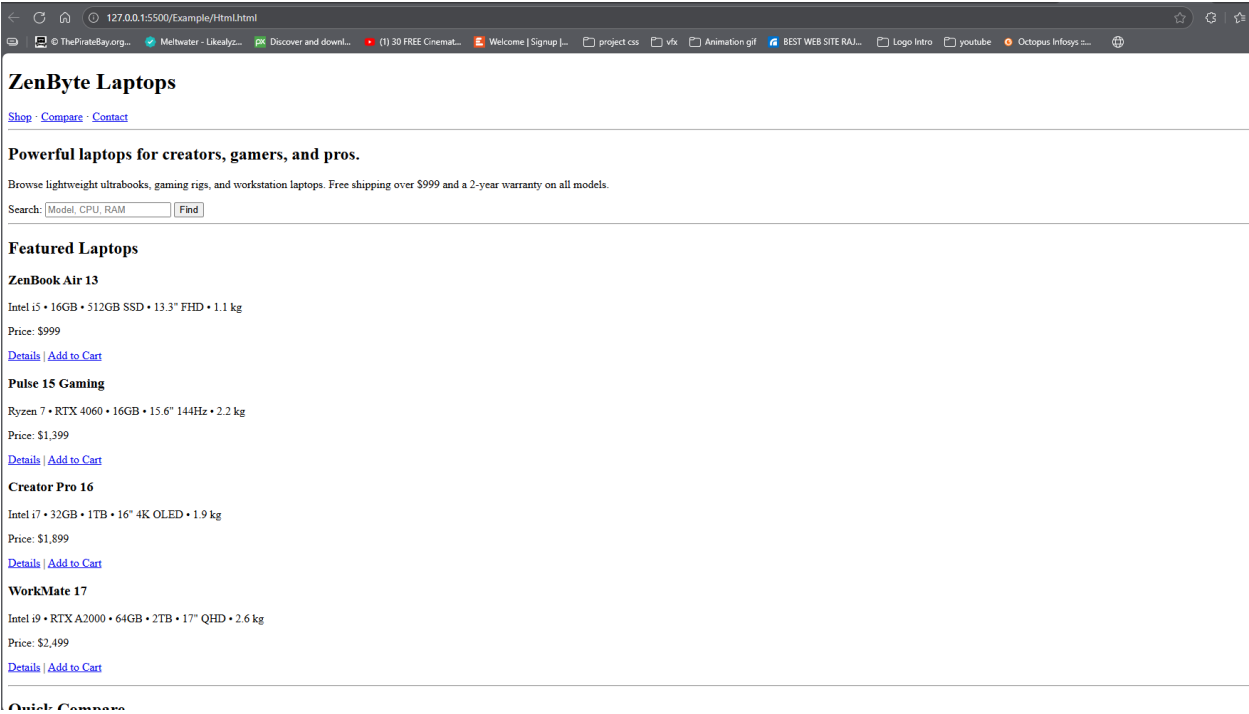
Ln 132, Col 1   Spaces: 4   UTF-8   CRLF   HTML   Signed out   Port : 5500

Output:

127.0.0.1:5500/Example/Html.html

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ZenBook Air 13

Intel i5 • 16GB • 512GB SSD • 13.3" FHD • 1.1 kg

Price: $999

Details | Add to Cart

Pulse 15 Gaming

Ryzen 7 • RTX 4060 • 16GB • 15.6" 144Hz • 2.2 kg

Price: $1,399

Details | Add to Cart

Creator Pro 16

Intel i7 • 32GB • 1TB • 16" 4K OLED • 1.9 kg

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Quick Compare

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Contact & Support

Name:

Email:

Message:

Send

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