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Hello
Welcome!

Lecture Week Two

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Let’s discuss <meta>

```
<head>
    <meta charset="UTF-8">
</head>
```

```
    <p>Japanese example: ご飯が熱い。</p>
```

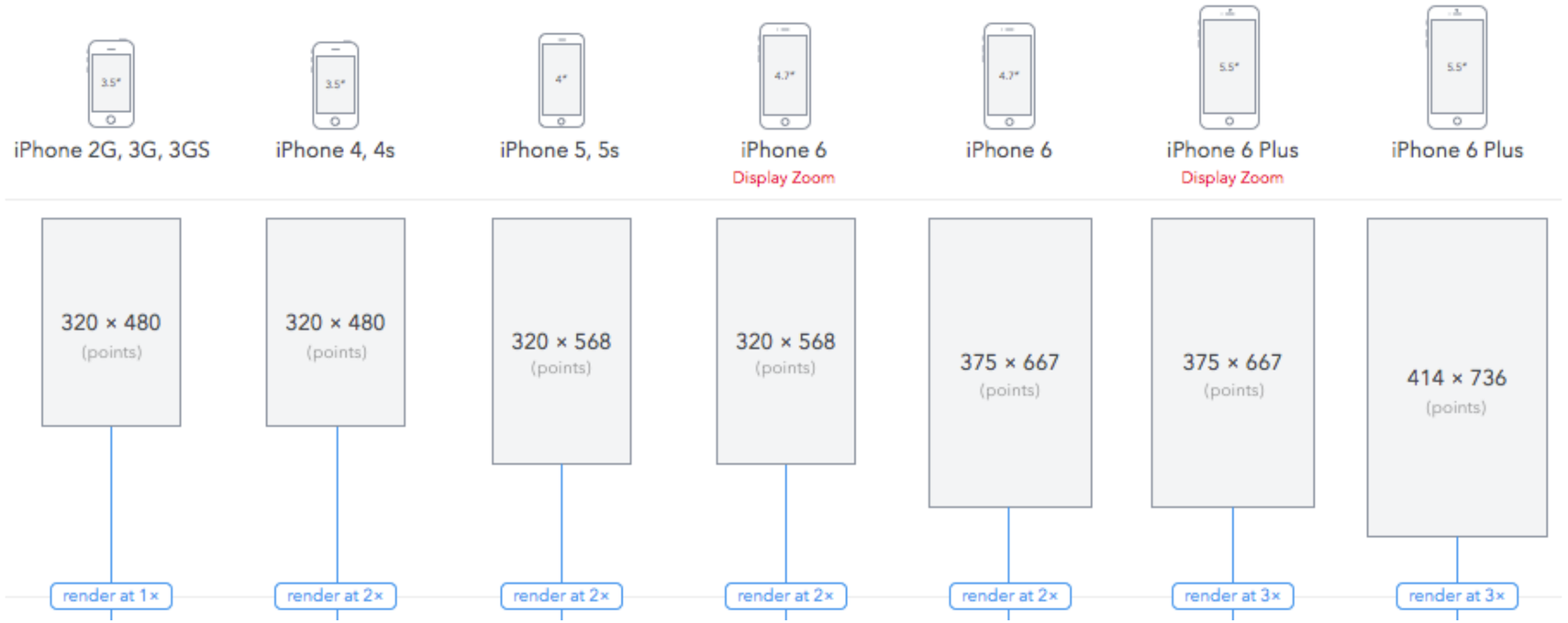
UTF-8

Japanese example: ご飯が熱い。

Japanese example: ã□”é£¯ã□Œç†±ã□„ã€‚

Viewport

```
<head>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
```



https://experienceleague.adobe.com/docs/target/using/experiences/vec/mobile-viewports.html

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<link>: The External Resource Link element

```
<link href="style.css" rel="stylesheet" />
```

Providing icons for different usage contexts

```
<!-- third-generation iPad with high-resolution Retina display: -->
<link
  rel="apple-touch-icon-precomposed"
  sizes="144x144"
  href="favicon144.png" />
<!-- iPhone with high-resolution Retina display: -->
<link
  rel="apple-touch-icon-precomposed"
  sizes="114x114"
  href="favicon114.png" />
<!-- first- and second-generation iPad: -->
<link rel="apple-touch-icon-precomposed" sizes="72x72" href="favicon72.png" />
<!-- non-Retina iPhone, iPod Touch, and Android 2.1+ devices: -->
<link rel="apple-touch-icon-precomposed" href="favicon57.png" />
<!-- basic favicon -->
<link rel="icon" href="favicon32.png" />
```

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Meta Tag List

```
<meta charset="UTF-8">
<meta name="keywords" content="your, tags">
<meta name="description" content="150 words">
<meta name="subject" content="your website's subject">
<meta name="copyright" content="company name">
<meta name="language" content="ES">
<meta name="robots" content="index,follow">
<meta name="revised" content="Sunday, July 18th, 2010, 5:15 pm">
<meta name="abstract" content="">
<meta name="topic" content="">
<meta name="summary" content="">
<meta name="Classification" content="Business">
<meta name="author" content="name, email@hotmail.com">
<meta name="designer" content="">
<meta name="reply-to" content="email@hotmail.com">
<meta name="owner" content="">
<meta name="url" content="http://www.websiteaddrress.com">
<meta name="identifier-URL" content="http://www.websiteaddress.com">
<meta name="directory" content="submission">
<meta name="pagename" content="jQuery Tools, Tutorials and Resources - O'Reilly Media">
<meta name="category" content="">
<meta name="coverage" content="Worldwide">
<meta name="distribution" content="Global">
<meta name="rating" content="General">
<meta name="revisit-after" content="7 days">
<meta name="subtitle" content="This is my subtitle">
<meta name="target" content="all">
<meta name="HandheldFriendly" content="True">
<meta name="MobileOptimized" content="320">
<meta name="date" content="Sep. 27, 2010">
```

```
<meta name="twitter:title" content="Machine Learning Workshop">
<meta name="twitter:description" content="School for machines who can't learn good and
to do other stuff good too"/>
<meta name="twitter:url" content="https://www.machinelearningworkshop.com/?src=twitter"
<meta name="twitter:image:src"
content="http://www.machinelearningworkshop.com/image/all.png"/>
<meta name="twitter:image:alt" content="27 different home appliances" />
<meta name="twitter:creator" content="@estellevw">
<meta name="twitter:site" content="@perfmattersconf">
```

https://github.com/kevinSuttle/html-meta-tags

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Block-level and Inline Elements

HTML – Inline- vs. Block-level Elements

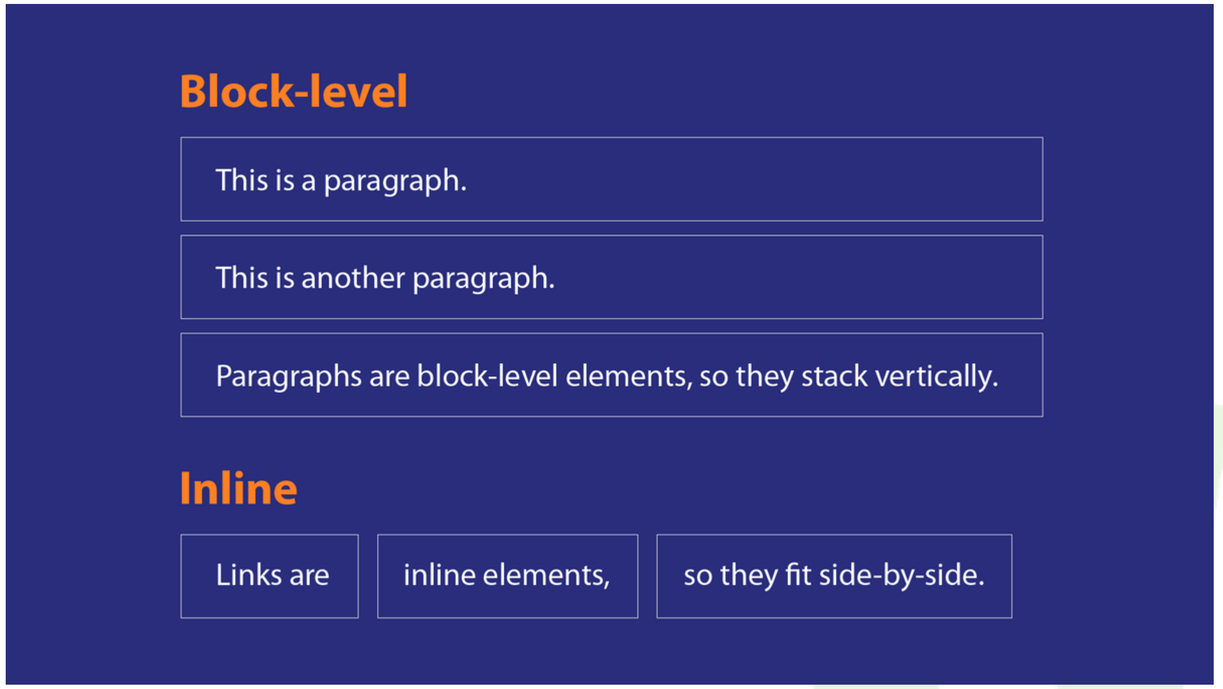
Block-level elements (<p>, <h1>, <h2>, etc.)

- take up their own space **vertically**.
- force elements after them to jump to next line.

Inline-level elements (<a>, <img>, , , etc.)

- do not take up their own vertical space
- can be placed **inside** of other elements.

Note: **cannot place a block-level element inside of inline-level element**
document will not validate properly if you do



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Nesting Elements

```
<p>My cat is <strong>very</strong> grumpy.</p>
```

```
<p>My cat is <strong>very grumpy.</p></strong>
```

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Semantic HTML

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```
<div>
    <span>Three words</span>
    <div>
      <a>one word</a>
      <a>one word</a>
      <a>one word</a>
      <a>one word</a>
    </div>
</div>
<div>
  <div>
    <div>five words</div>
  </div>
  <div>
   <div>three words</div>
   <div>forty-six words</div>
   <div>forty-four words</div>
  </div>
  <div>
   <div>seven words</h2>
   <div>sixty-eight words</div>
   <div>forty-four words</div>
  </div>
</div>
<div>
   <span>five words</span>
</div>
```

```
<header>
   <h1>Three words</h1>
    <nav>
      <a>one word</a>
      <a>one word</a>
      <a>one word</a>
      <a>one word</a>
    </nav>
</header>
<main>
  <header>
    <h1>five words</h1>
  </header>
  <section>
   <h2>three words</h2>
   <p>forty-six words</p>
   <p>forty-four words</p>
  </section>
  <section>
   <h2>seven words</h2>
   <p>sixty-eight words</p>
   <p>forty-four words</p>
  </section>
</main>
<footer>
   <p>five words</p>
</footer>
```

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Headings and sections

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Header

```
<!-- start header -->
<div id="pageHeader">
    <div id="title">Machine Learning Workshop</div
    <!-- navigation -->
    <div id="navigation">
       <a href="#reg">Register</a>
      <a href="#about">About</a>
       <a href="#teachers">Instructors</a>
       <a href="#feedback">Testimonials</a>
    </div>
    <!-- end navigation bar -->
</div>
<!-- end of header -->
```

```
<!-- start header -->
<div role="banner">
    <div role="heading" aria-level="1">Machine Learning Workshop</div>
    <div role="navigation">
       <a href="#reg">Register</a>
     <a href="#about">About</a>
       <a href="#teachers">Instructors</a>
       <a href="#feedback">Testimonials</a>
    </div>
    <!-- end navigation bar -->
<div>
<!-- end of header -->
```

```
<header>
    <h1>Machine Learning Workshop</h1>
    <nav>
      <a href="#reg">Register</a>
     <a href="#about">About</a>
      <a href="#teachers">Instructors</a>
      <a href="#feedback">Testimonials</a>
    </nav>
</header>
```

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Document structure

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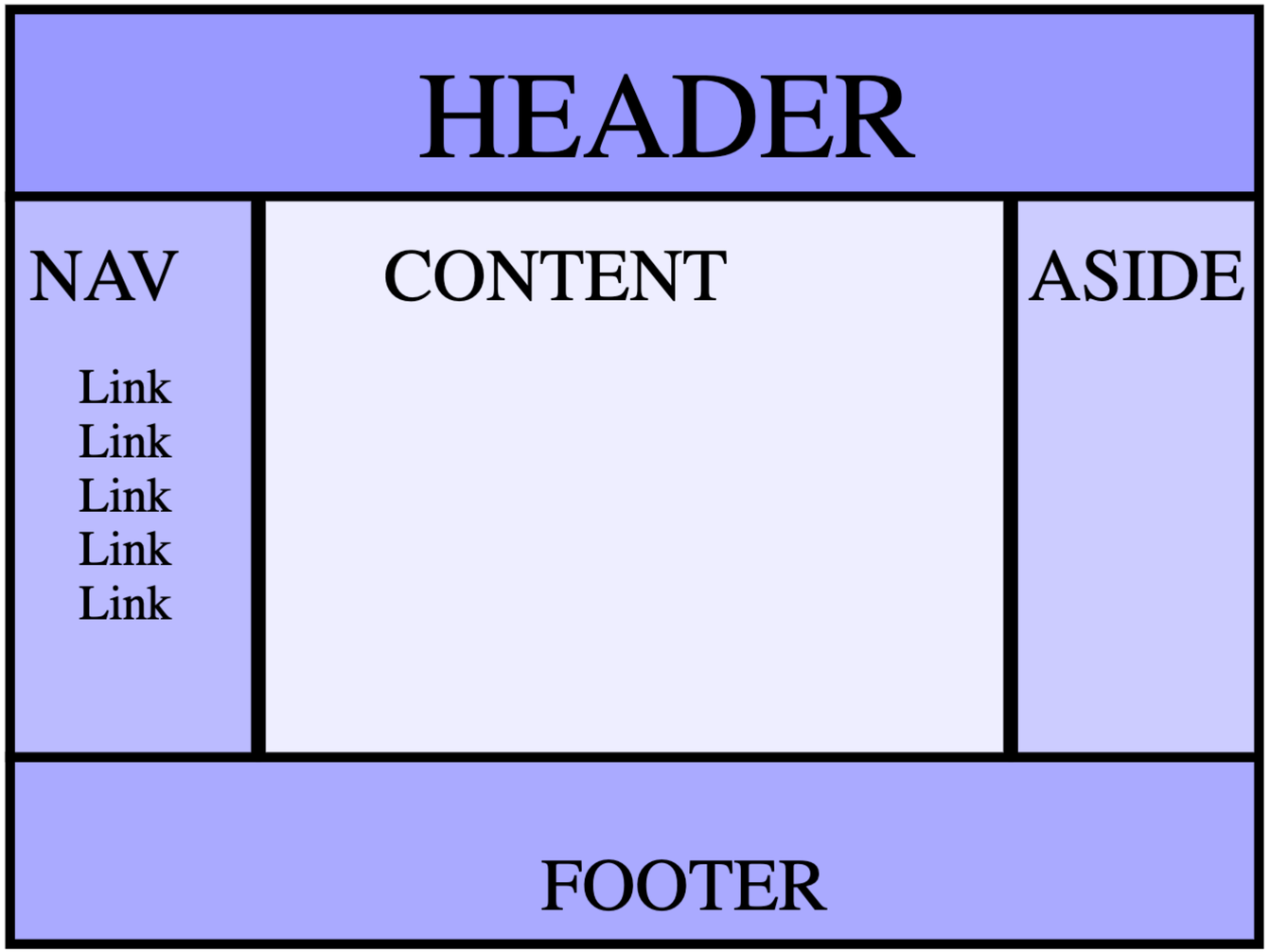
holy grail layout



```
<body>
    <header>Header</header>
    <nav>Nav</nav>
    <main>Content</main>
    <aside>Aside</aside>
    <footer>Footer</footer>
</body>
```

If you are creating a blog, you might have a series of articles in `<main>`:

```
<body>
    <header>Header</header>
    <nav>Nav</nav>
    <main>
  <article>First post</article>
  <article>Second post</article>
    </main>
    <aside>Aside</aside>
    <footer>Footer</footer>
</body>
```

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<nav>: The Navigation Section element

```
<nav class="crumbs">
    <ol>
        <li class="crumb"><a href="#">Bikes</a></li>
        <li class="crumb"><a href="#">BMX</a></li>
        <li class="crumb">Jump Bike 3000</li>
    </ol>
</nav>
```

Bikes > BMX > Jump Bike 3000

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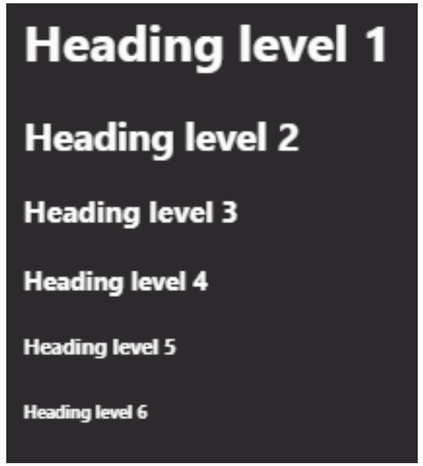
<h1>–<h6>: The HTML Section Heading elements

```
<h1>Heading level 1</h1>
<h2>Heading level 2</h2>
<h3>Heading level 3</h3>
<h4>Heading level 4</h4>
<h5>Heading level 5</h5>
<h6>Heading level 6</h6>
```



1. Heading information can be used by user agents to construct a table of contents for a document automatically.
2. Do not use heading elements to resize text. Instead, use the CSS font-size property.
3. Do not skip heading levels: always start from <h1>, followed by <h2> and so on.

Advanced text formatting

Description list

```
<dl>
  <dt>soliloquy</dt>
  <dd>
    In drama, where a character speaks to themselves, representing their inner
    thoughts or feelings and in the process relaying them to the audience (but
    not to other characters.)
  </dd>
  <dt>monologue</dt>
  <dd>
    In drama, where a character speaks their thoughts out loud to share them
    with the audience and any other characters present.
  </dd>
  <dt>aside</dt>
  <dd>
    In drama, where a character shares a comment only with the audience for
    humorous or dramatic effect. This is usually a feeling, thought, or piece of
    additional background information.
  </dd>
</dl>
```

soliloquy
: In drama, where a character speaks to themselves, representing their inner thoughts or feelings and in the process relaying them to the audience (but not to other characters.)

monologue
: In drama, where a character speaks their thoughts out loud to share them with the audience and any other characters present.

aside
: In drama, where a character shares a comment only with the audience for humorous or dramatic effect. This is usually a feeling, thought, or piece of additional background information.

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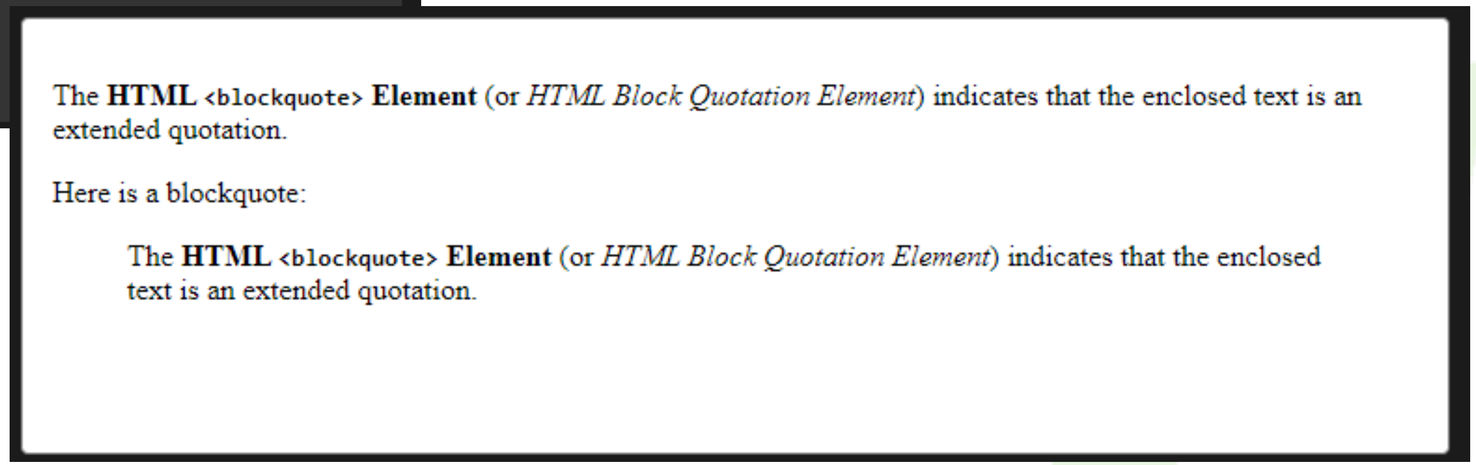
Blockquote

```
<p>Here is a blockquote:</p>
<blockquote
  cite="https://developer.mozilla.org/en-US/docs/Web/HTML/Element/blockquote">
  <p>
    The <strong>HTML <code>&lt;blockquote&gt;</code> Element</strong> (or
    <em>HTML Block Quotation Element</em>) indicates that the enclosed text is
    an extended quotation.
  </p>
</blockquote>
```



The **HTML** `<blockquote>` **Element** (or *HTML Block Quotation Element*) indicates that the enclosed text is an extended quotation.

Here is a blockquote:

> The **HTML** `<blockquote>` **Element** (or *HTML Block Quotation Element*) indicates that the enclosed text is an extended quotation.

Citations

```
<p>
  According to the
  <a href="/en-US/docs/Web/HTML/Element/blockquote">
    <cite>MDN blockquote page</cite></a>:
</p>

<blockquote cite="https://developer.mozilla.org/en-
US/docs/Web/HTML/Element/blockquote">
  <p>The <strong>HTML <code>&lt;blockquote&gt;</code> Element</strong> (or
<em>HTML Block
  Quotation Element</em>) indicates that the enclosed text is an extended
quotation.</p>
</blockquote>

<p>The quote element — <code>&lt;q&gt;</code> — is <q
cite="https://developer.mozilla.org/en-US/docs/Web/HTML/Element/q">intended
for short quotations that don't require paragraph breaks.</q> — <a href="/en-
US/docs/Web/HTML/Element/q">
<cite>MDN q page</cite></a>.</p>
```

According to the *MDN blockquote page*:

> The **HTML `<blockquote>` Element** (or *HTML Block Quotation Element*) indicates that the enclosed text is an extended quotation.

The quote element — `<q>` — is “intended for short quotations that don't require paragraph breaks.” — *MDN q page*.

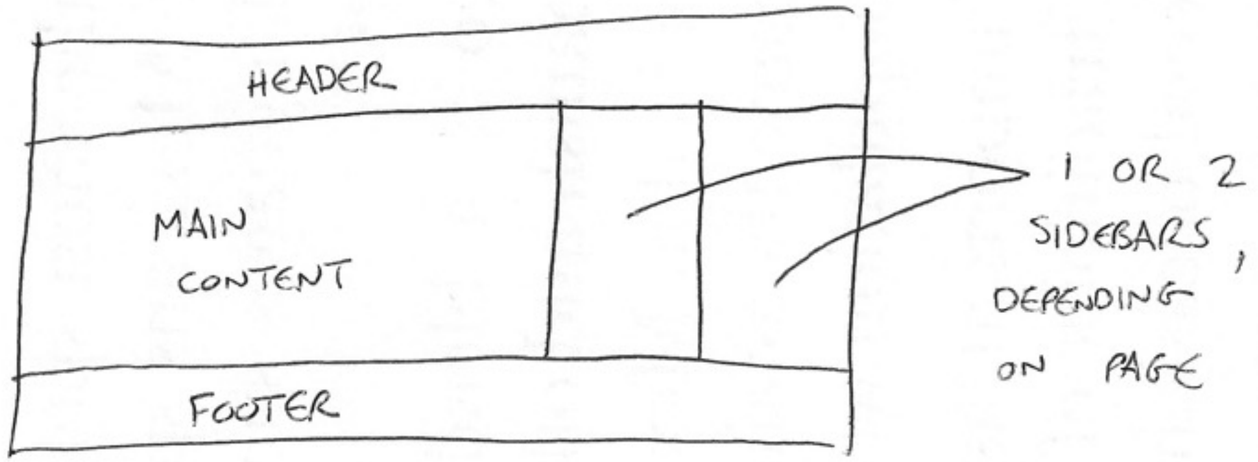
Planning a simple website

Information architecture

Common to every page

Header: title & logo

Footer: Contact details and copyright notice
Links to ① terms + conditions
② Site language chooser
③ Accessibility policy



Search for
- Flights
- Hotels / other accommodation
- Transport
- Things to do

Special offers

Popular holiday packages
- e.g. Winter sun
- Disneyworld
- Skiing

Search results
- Country-specific info
- Accommodation / attraction reviews
- Visa / entry requirements
- Money / Currency
- Languages
- Insurance

Buy
- holidays / other things

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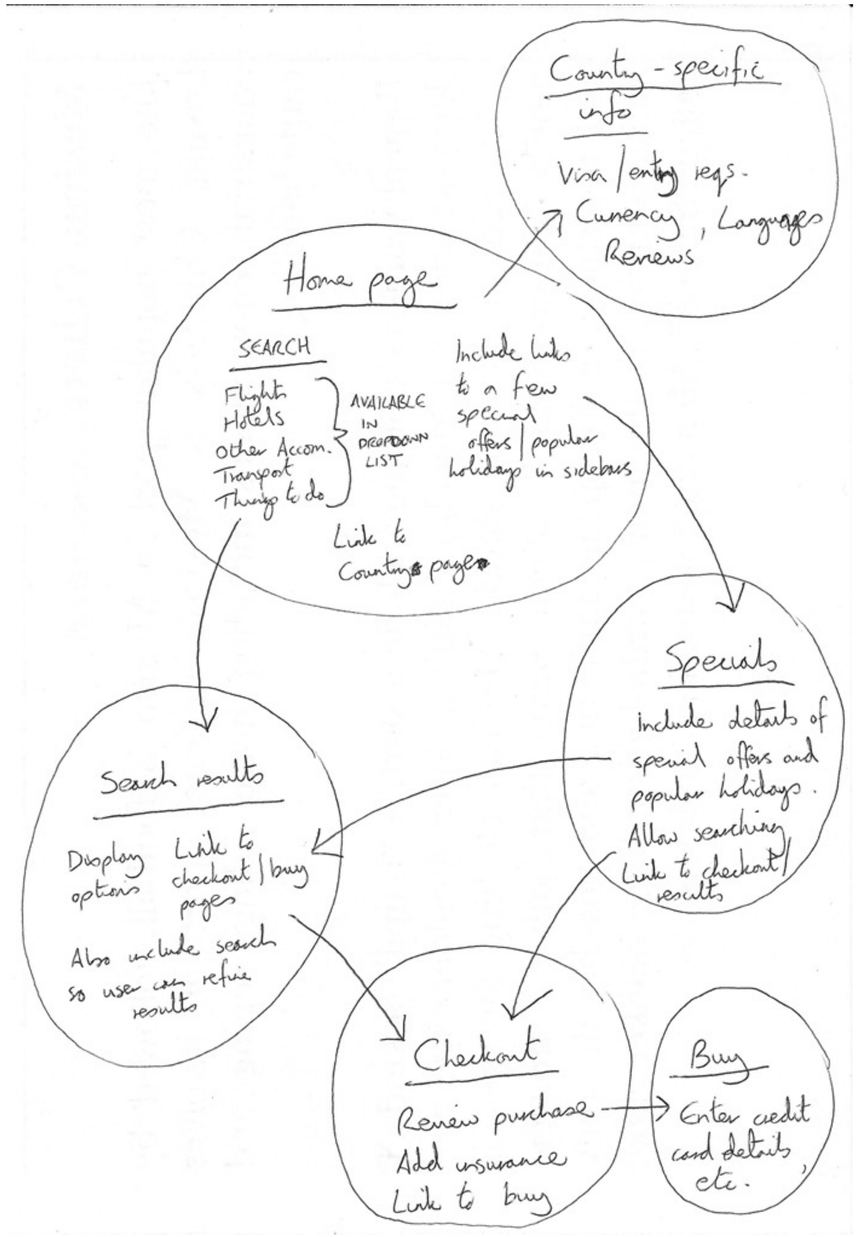
Sitemap



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Debugging HTML

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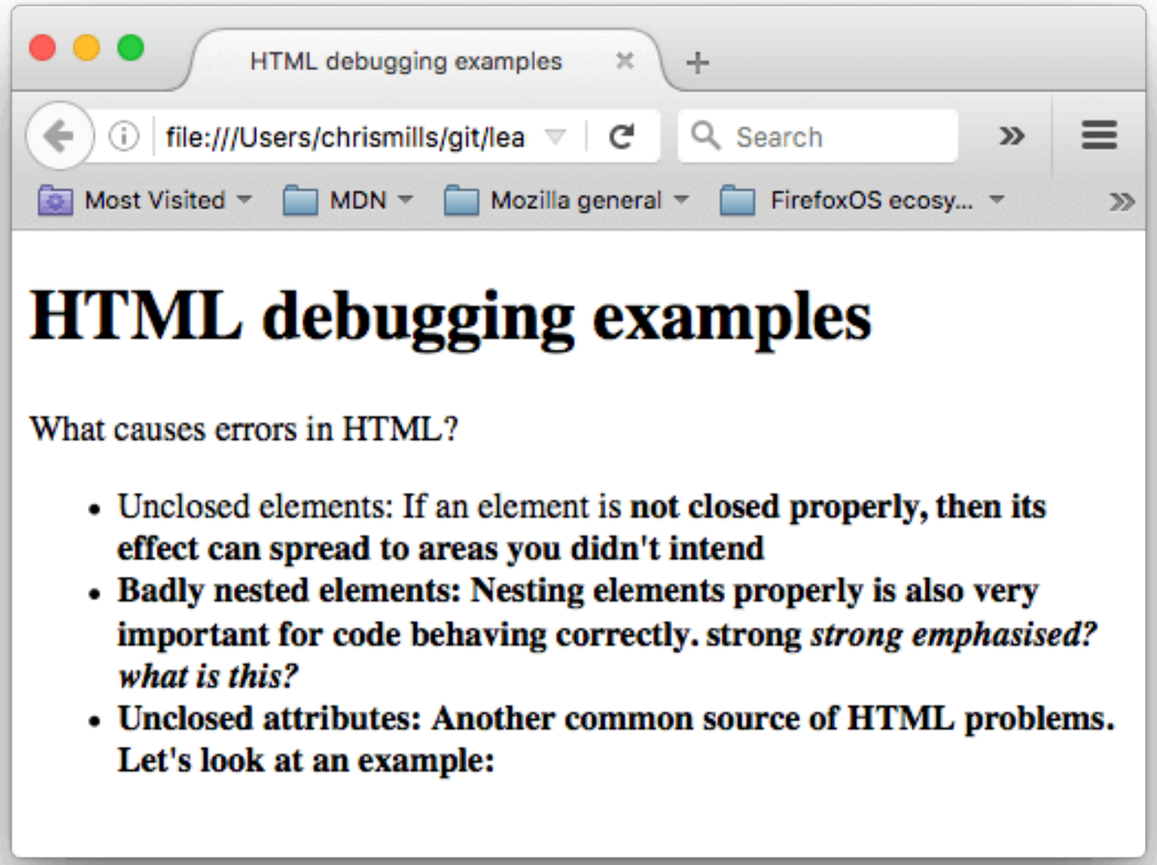
```
<!DOCTYPE html>
<html lang="en-us">
  <head>
    <meta charset="utf-8">

    <title>HTML debugging examples</title>



  </head>

  <body>
    <h1>HTML debugging examples</h1>

    <p>What causes errors in HTML?

    <ul>
      <li>Unclosed elements: If an element is <strong>not closed properly, then its effect can
      spread to areas you didn't intend

      <li>Badly nested elements: Nesting elements properly is also very important for code
      behaving correctly. <strong>strong <em>strong emphasised?</strong> what is this?</em>

      <li>Unclosed attributes: Another common source of HTML problems. Let's look at an example:
      <a href="https://www.mozilla.org/>link to Mozilla homepage</a>
    </ul>
  </body>
</html>
```


HTML debugging examples
file:///Users/chrismills/git/lea
Search
Most Visited
MDN
Mozilla general
FirefoxOS ecosy...
HTML debugging examples
What causes errors in HTML?
Unclosed elements: If an element is not closed properly, then its effect can spread to areas you didn't intend
Badly nested elements: Nesting elements properly is also very important for code behaving correctly. strong strong emphasised? what is this?
Unclosed attributes: Another common source of HTML problems. Let's look at an example:

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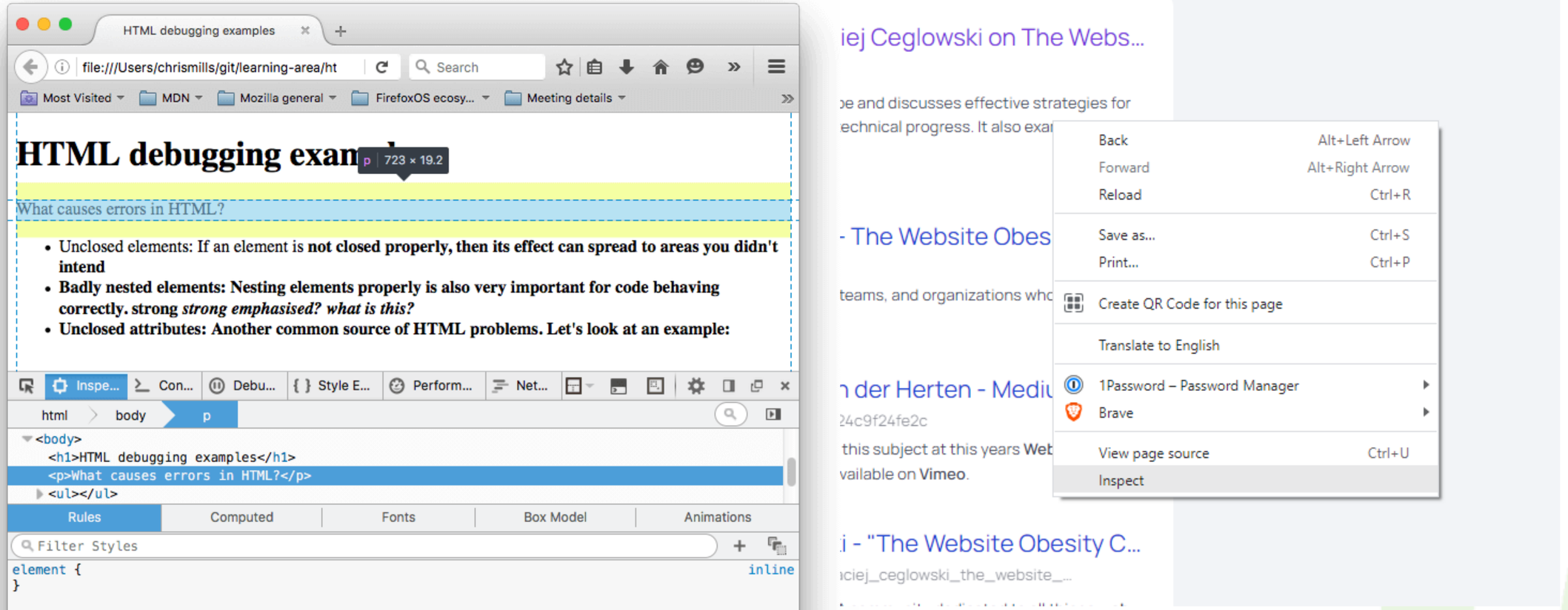

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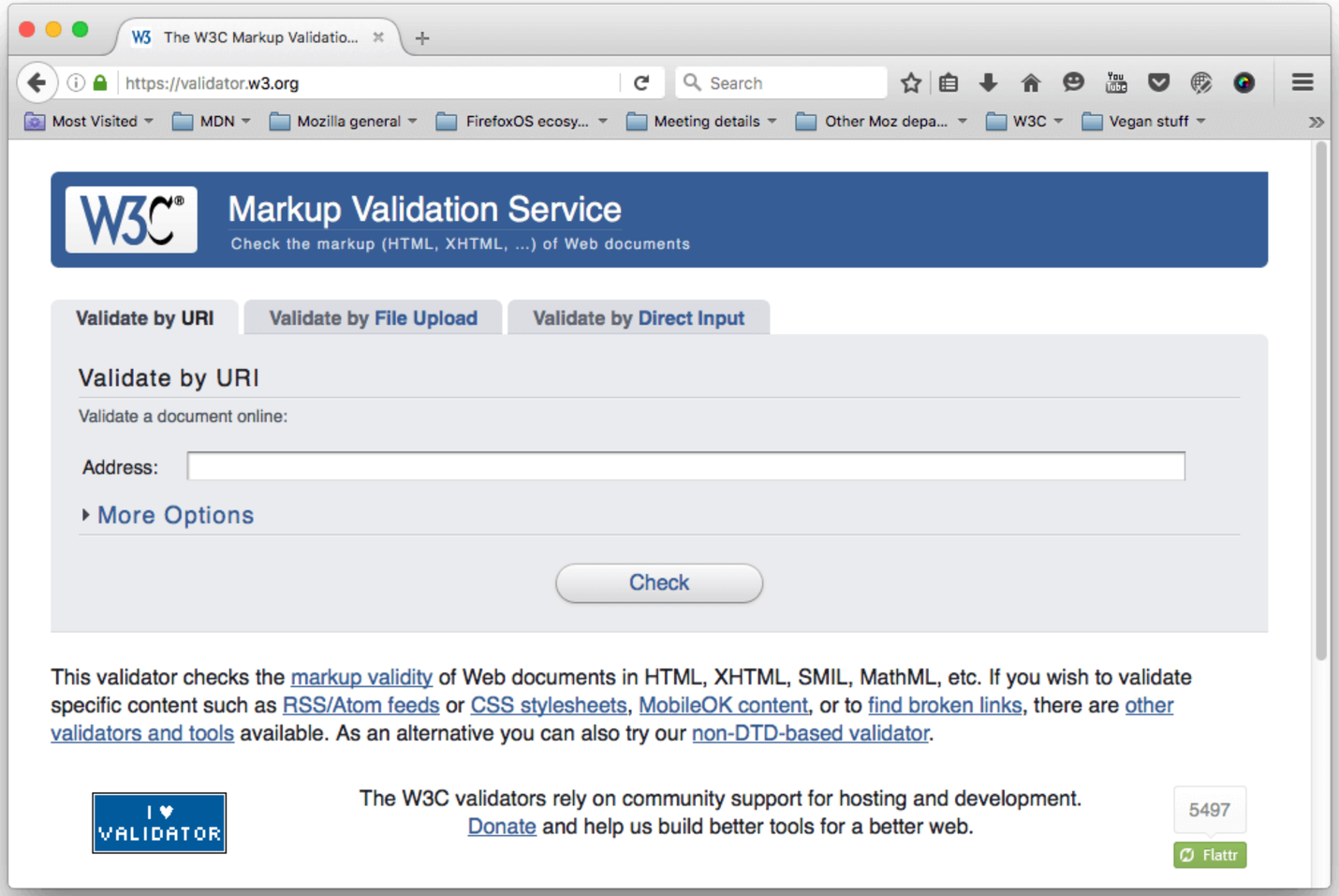
https://validator.w3.org/j



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1. **Error** **End tag `li` implied, but there were open elements.**
   From line 19, column 7; to line 19, column 10
   ```
   nd↵↵      <li>Badly
   ```

2. **Error** **Unclosed element `strong`.**
   From line 17, column 47; to line 17, column 54
   ```
   lement is <strong>not cl
   ```

3. **Error** **End tag `strong` violates nesting rules.**
   From line 19, column 149; to line 19, column 157
   ```
   mphasised?</strong> what
   ```

4. **Error** **End tag `li` implied, but there were open elements.**
   From line 21, column 7; to line 21, column 10
   ```
   m>↵↵      <li>Unclos
   ```

5. **Error** **End of file reached when inside an attribute value. Ignoring tag.**
   At line 24, column 7
   ```
    </body>↵</html>
   ```

6. **Error** **End of file seen and there were open elements.**
   From line 21, column 98; to line 24, column 7
   ```
    example: <a href="https://www.mozilla.org/>link to Mozilla homepage</a>↵    </ul>↵  </body>↵↵</html>
   ```

7. **Error** **Unclosed element `ul`.**
   From line 16, column 5; to line 16, column 8
   ```
   TML?↵↵    <ul>↵
   ```

The document validates according to the specified schema(s) and to additional constraints checked by the validator.

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Want to Learn more?

- HTML5 Doctor
- HTML5: W3C Schools
- HTML5: Tutorial Points

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Thank you!