

FAB ACADEMY X

BUILDING A DOCUMENTATION WEBSITE

BASIC STRUCTURE OF A WEBSITE



**ESSENTIAL
STRUCTURE**
is the standard
markup* language
for creating Web
pages.



PAGE DESIGN
describes how
HTML elements
are to be
displayed on
screen



**PAGE
BEHAVIOR**
is a language
used to change
the behavior of
HTML Content

*A language used to write a document in a way
that is syntactically distinguishable from the text.

HTML

- HTML stands for Hyper Text Markup Language
- HTML describes the structure of Web pages using markup
- HTML elements are the building blocks of HTML pages
- HTML elements are represented by tags
- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on
- Browsers do not display the HTML tags, but use them to render the content of the page

HTML

Example Page

CODE

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>My First Heading</h1>
<p>My first paragraph.</p>

</body>
</html>
```

SCREEN

My First Heading

My first paragraph.

<http://www.w3schools.com/>

HTML

- Headings `<h1>Big Title</h1> ... <h6>Small Title</h6>`
- Paragraph `<p>Normal Text</p>`
- Lists `first row...next row`
- Links `This is a link`
- Image ``
- Divs `<div>Division or section of the page</div>`

HTML

Page Structure

```
<html>
```

```
<head>
```

```
<title>Page title</title>
```

```
</head>
```

```
<body>
```

```
<h1>This is a heading</h1>
```

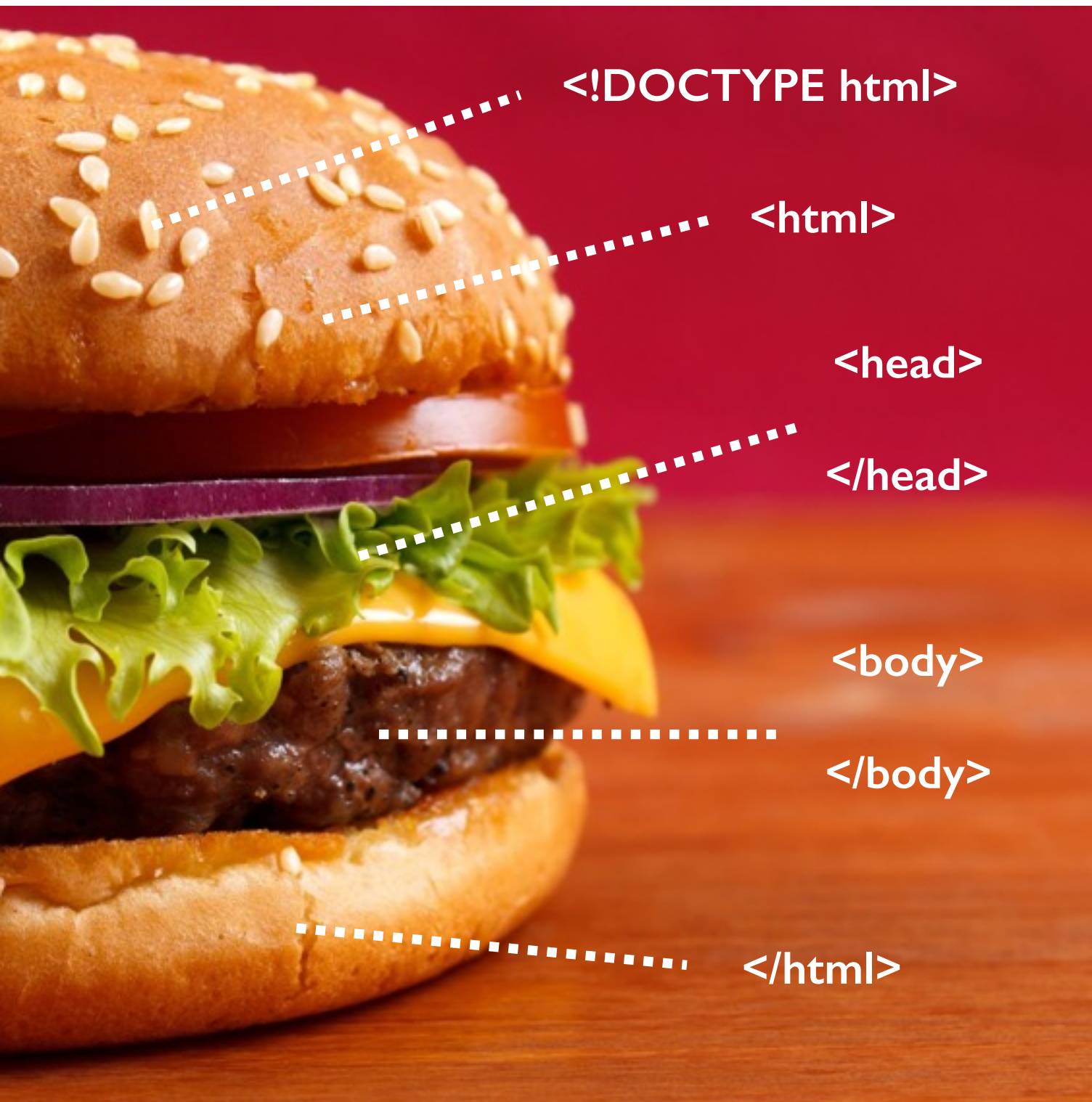
```
<p>This is a paragraph.</p>
```

```
<p>This is another paragraph.</p>
```

```
</body>
```

```
</html>
```

BURGER METAFORE



`<html> </html>`
(two picese of bread)

`<head> </head>`
Head: contains the ingredient list: mayonese, tomato, onions, and other special ingredients that add taste and define how it will look.

`<body> </body>`
Body: the meat of the sandwich and all the contents that will be visible on the page.

CSS

- CSS stands for Cascading Style Sheets
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files

CSS SOLVED A BIG PROBLEM

HTML was **never** intended to contain tags for formatting a web page! HTML was created to describe the content of a web page.

When tags like ``, and color attributes were added to the HTML, it started a **nightmare** for web developers. Development of large websites, where fonts and color information were added to every single page, became a long and expensive process.

To solve this problem, the World Wide Web Consortium (W3C) created CSS. CSS removed the style formatting from the HTML page! **CSS Saves a Lot of Work!**

The style definitions are normally saved in **external .css files**.

With an external stylesheet file, you can change the look of an entire website by changing just one file!

3 WAYS OF USING CSS

- **Inline:** using a `style=` attribute for single HTML elements inside `<body>`
- **Internal:** using a `<style>` element in the HTML `<head>` section
- **External:** using one or more external CSS files

CSS INLINE

CODE

SCREEN

```
<!DOCTYPE html>
<html>
<body>

<h1 style="color:blue;margin-
left:30px;">This is a heading.
</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

This is a heading.

This is a paragraph.

CSS INTERNAL

CODE

```
<!DOCTYPE html>
<html>
<head>
<style>
body {
    background-color: linen;
}
h1 {
    color: maroon;
    margin-left: 40px;
}
</style>
</head>
<body>

<h1>This is a heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

SCREEN

This is a heading

This is a paragraph.

CSS EXTERNAL

CODE

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet"
type="text/css"
href="mystyle.css">
</head>
<body>

<h1>This is a heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

SCREEN

This is a heading

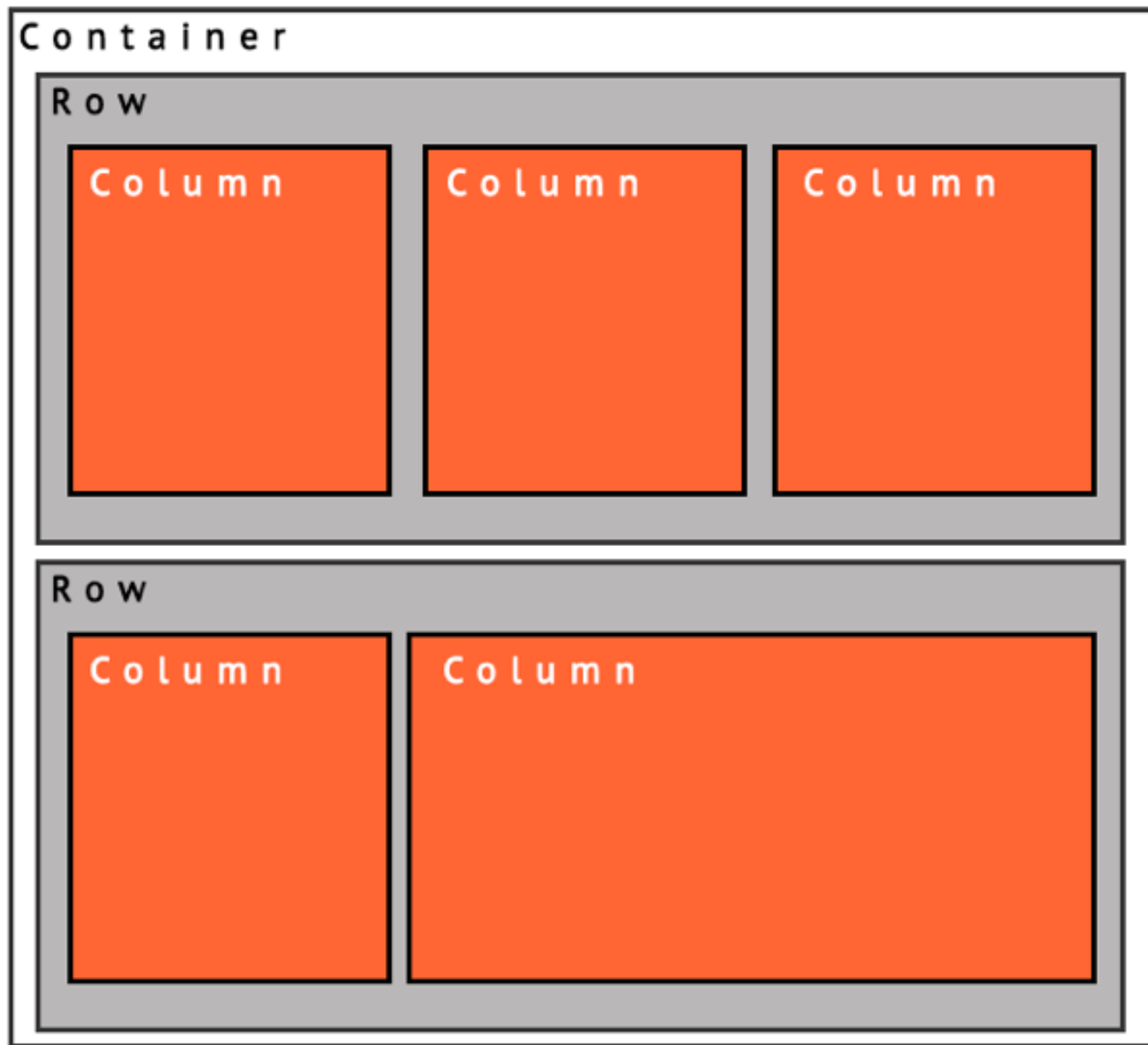
This is a paragraph.

BOOTSTRAP

Bootstrap is a free front-end framework for faster and easier web development

Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins

Bootstrap also gives you the ability to easily create responsive designs



GRID SYSTEM

12 Column grid

Access through CSS
classes

Container, Rows,
Columns

ASSIGNMENT

Using Bootstrap, build a
simple web page for
documenting your progress
in Fab Academy X