

Introduction

In this lesson we're going to learn how to use tags to structure content. To prepare for the lesson open up the "structural-begin.html" file.

Before HTML 5 we only had the div tags for structuring content but currently there are many more options to choose from which improve the semantics of the code.

Div tags

So our task is to mark up sections of the document with the most appropriate tags.

The first and most common tag is the generic block tag div which stands for division. When we want to define blocks of content or data in the page, we can use the div tag, however, it does not add any particular meaning to what it's marking up. HTML5 introduces many new tags that help us with that.

It is useful however to have a tag containing the whole website so that we have hooks for CSS as well. So let's just wrap the whole content with the div tag like this:

The div tag is useful to define generic blocks. We can use attributes like class and title to assign it more meaning if necessary.

Header and nav tags

We have the logo at the top of the page. The logo of the company is usually a part of the header of the web page, so it's fitting to use the header tag here:

```
<header>
     <img src="logo.png" alt="Company Name">
</header>
```

The header tag, as the name implies, represents the header of a section, or of a whole document. It may be used together with headings and include information like publication date when it is used as the header of an article.

Next, we have the menu, but this list itself does not mean that it represents navigation. That's why HTML5 introduces the nav tag:

```
</nav>
```

The nav tag can be used to mark up primary page's navigation. However not all navigational blocks should use this tag. For example, a complementary menu inside the footer of a website normally would not need a nav tag.

Next there is the entire website's content. It will depend on the nature of the content but for now we can wrap this entire content with a div tag as well:

The main tag

As another option we may use the new main tag:

This tag should occur only once per page and be used only for marking up the main content area. It has been recently added to the draft HTML specification, so we should see browser support increasing over time.

The article tag

The next piece of content can be an example for using another new tag article:

```
<article>
     <h1>Content Title</h1>

        Lorem ipsum dolor sit amet, consectetur adipisicing elit. Ad, minima, ipsum, harum vero molestiae libero aliquam natus
excepturi nam dolore laudantium adipisci perspiciatis in repudiandae officiis provident veritatis odio rem.

     </article>
     <h1>Another website section</h1>
[...]
```

article represents an independent part of the content of a page. Imagine that you can take this content between article tags, remove it from the site and paste it into another document or website - it still would have made sense. Examples include blog posts, magazine articles and forum posts. article can also contain headers and footers:

The footer could contain information about the code and it's author.

Figure, figcaption and aside tags

Let's now take a look at the picture in the document. This is something that is related to the content, so we could use the new figure tag. The figure tag represents a unit of a content, optionally with a caption, that is self-contained. This is typically referenced as a single unit from the main flow of the document that can be moved away from the main flow of the document without affecting the document's meaning.

The HTML5 specification also introduces a figcaption tag to mark up the caption of the figure.

Notice that the alt text in the image is different than the figcaption: the alt text should describe what's on the image while in the caption you can explain, for example, the relation of the picture to the document.

Now imagine we need to mark up a sidebar as content that is related to the main article, but not is not necessary for its understanding. This kind of content can be marked up with the aside tag:

If the aside tag is put inside an article tag, its content must be related to that article. If an aside tag is put outside of an article tag, the contents must be related to the website in general. That does not mean however that every website's sidebar should be marked up with an aside.

Section and footer tags

After the content that we've wrapped with the article tags there is another section. If this is our basic website section that does not constitute independent content like article, we can use the generic section tag:

```
<section>
    <h1>Another website section</h1>

        Lorem ipsum dolor sit amet, consectetur adipisicing elit. Ad, minima, ipsum, harum vero molestiae libero aliquam natus
excepturi nam dolore laudantium adipisci perspiciatis in repudiandae officiis provident veritatis odio rem.

        </section>
```

The <u>section</u> tag represents a thematic group of content and it should be identified by one of the heading tags: https://doi. https://d

Finally, we have the footer. This is a perfect case for the footer tag:

The footer tag contains information about a section or document. It can be used as the footer of a website, or as a footer of another section or article.

Now you may see the final results in the browser. You will notice that almost nothing has changed on the page. The tags we have seen here are mainly structural tags: they help us to group content semantically, so we have better code for browsers and search engines.