

# HTML – part 2

Common elements and Semantic elements

# Structure

- All content needs structure
  - Wrong:

```
<main>
This is some text

Here is some more text
</main>
```

- Right

```
<main>
<p>This is some text</p>

<p>Here is some more text</p>
</main>
```

# Semantics

- The branch of linguistics and logic concerned with meaning.
- We need to make sure we are using the correct elements, giving our content the correct meaning.
- E.g. `<h1>` gives the role (or meaning) of "a top level heading on your page."
- Semantic elements are used by search engines and screen readers.
- Some elements don't have semantics.
  - `<span>`
  - `<div>`

# Hyperlinks

- Link documents to other documents or resources

```
<a href="products.html">Products page</a>  
<a href="https://metropolia.fi">Link to another website</a>  
<a href="document.pdf" target="_blank">Open pdf-document</a>
```

- Link to specific parts of a document

```
<a href="#example">Jump to example</a>  
<!-- The above link takes to id "example" in the same document -->  
<div id="example"><p>Some content</p></div>
```

# Headings and paragraphs

- Heading
  - `<h1>` – `<h6>`
  - Number means hierarchy, not size
  - It's up to you what the numbers represent, if the hierarchy makes sense.
  - Preferably a single `<h1>` per page
- Paragraph
  - each paragraph must be wrapped in a `<p>` element

# Lists & importance

- Unordered list

```
<ul>  
  <li>Cow</li>  
  <li>Fox </li>  
  <li>Whale</li>  
</ul>
```

- Emphasis (not italic)

```
<p>HTML is <em>so fun</em></p>
```

- Ordered list

```
<ol>  
  <li>Cow</li>  
  <li>Fox </li>  
  <li>Whale</li>  
</ol>
```

- Strong (not bold)

```
<p><strong>Don't be late</strong>from class.</p>
```

# Tables

- Structured set of data made up of rows and columns.
- Should be used for tabular data NOT to lay out web pages.

```
<table>
  <tr>
    <th>Table heading 1</th>
    <th>Table heading 2</th>
  </tr>
  <tr>
    <td>1st row, cell 1</td>
    <td>1st row, cell 2</td>
  </tr>
  <tr>
    <td>2nd row, cell 1</td>
    <td>2nd row, cell 2</td>
  </tr>
  <tr>
    <td colspan="2">This cell takes 2 columns/cells</td>
  </tr>
</table>
```

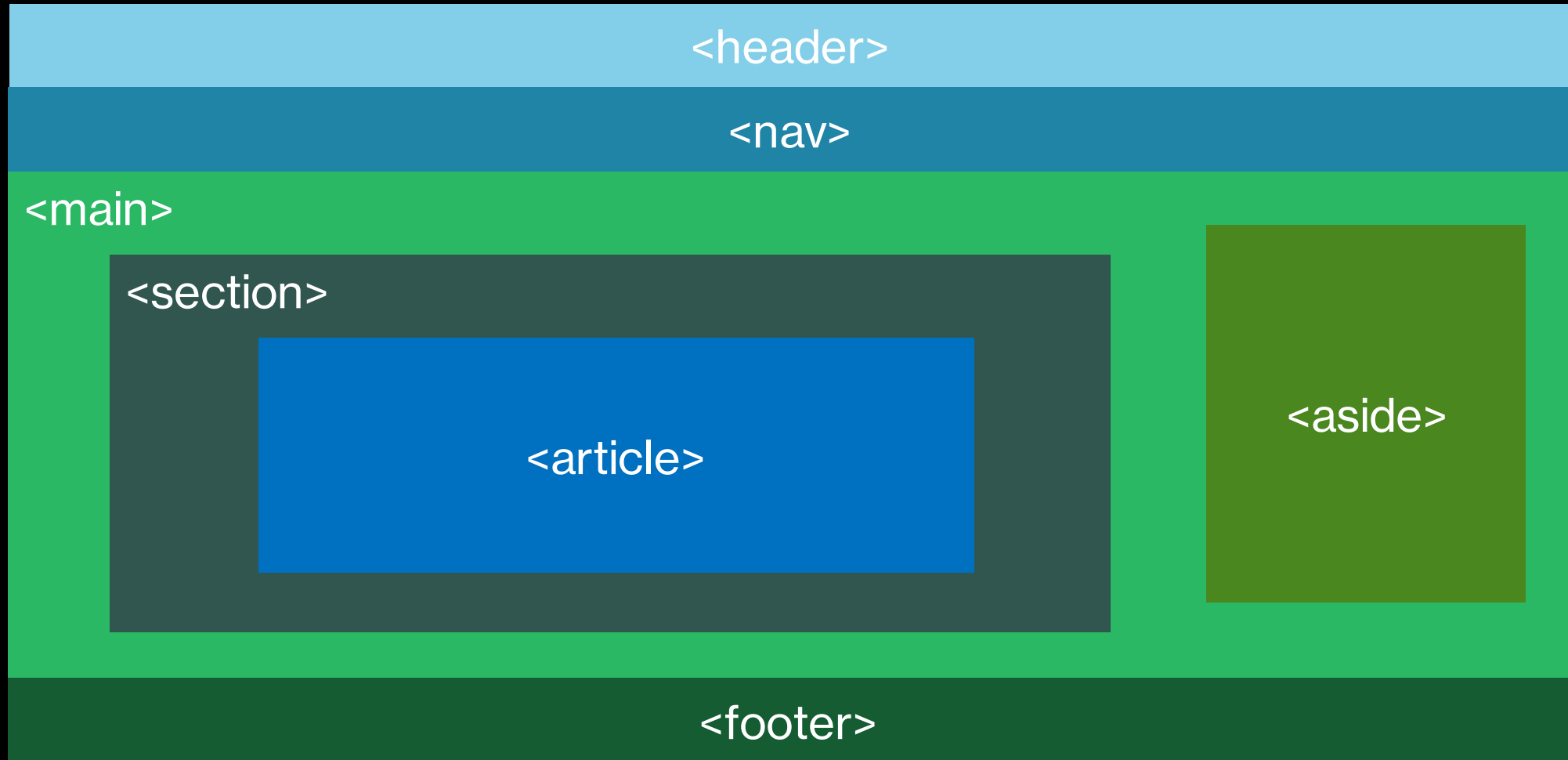
# Forms

- Allow users to enter data, which is generally sent to a web server for processing and storage.
- Also can be used on the client-side to immediately update the interface in some way.

```
<form action="/url/to/some/server">  
  <input type="text" name="username" placeholder="Write username here">  
  <input type="password" name="password" placeholder="Write password here">  
  <input type="submit" value="Send form">  
</form>
```



# Document structure



# Document structure

- `<main>`
  - Content unique to the page. Use only once per page.
- `<article>`
  - Content that makes sense on its own. Product, blog post, newspaper article...
- `<section>`
  - Like `<article>` but more for grouping together a part of a page. Like sections in a newspaper (sports, news, classifieds).
- `<aside>`
  - Additional information
- `<header>`
  - Introductory content. Exact meaning depends on location -> body, article, section. Don't confuse with headings.
- `<nav>`
  - Contains the main navigation functionality

# Example

- Open HTML1 folder from HTML + CSS Examples in IDE/editor

# Links

- [HTML elements reference](#)
- [Common solutions](#)
- [Content categories](#)
- [Validator](#)