Lists

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Lists

HTML Lists

- When we have a collection of related items in our HTML, we can use *list* elements to mark them up
- There are 2 different types of list we can create
 - Ordered list (the order of the items is meaningful)
 - Unordered list (the order of the items is irrelevant)
- There is also a definition list, but it has a different purpose

Unordered Lists

- To create an unordered list, we use the ul tag to represent the entire list of "things"
- We use li (list item) tags to represent each "thing" (or item) in the list
 - ▶ **li** is the only tag which can be a direct *child* of **ul**

Unordered List example

A list where the order of items is irrelevant:

```
<h2>Shopping list</h2>

    Cake
    Biscuits
    Coffee
```

Unordered list example - default styles

 By default, an unordered list is indented, with bullets to the left of each item

Shopping list

- Cake
- Biscuits
- Coffee

Ordered Lists

An ordered list is identical to an unordered list with
 ol instead of ul

```
<h2>Coding instructions</h2>

Open Editor
Create new file and save it
Type your HTML code
```

Ordered list example - default styles

 By default, ordered lists are indented with numbers to the left of each item (numbers are auto-generated):

Programming instructions

- 1. Open Notepad++
- Create new file and save it
- 3. Type your HTML code

CSS and Lists

- All of the standard CSS properties can be applied to lists
 - color, font-size, etc.
- However, the properties can be set on either the list element or the list item elements
 - Normally on the *list* element... Why do you think this is?

CSS and Lists - example 1

To make all items in unordered lists green:

```
ul {
    color: #008800;
}
```

Due to *inheritance*, the rule will be applied to any *li* elements that are within a *ul*

CSS and Lists - example 2

To make all items in ordered lists blue:

```
ol {
    color: #008800;
}
```

 Again, due to inheritance, the rule will be applied to any li elements that are within a ol

List-specific CSS

- There are some properties which exist specifically for lists
 - most interesting to us is list-style-type
- The list-style-type property determines:
 - The type of bullet used for unordered lists
 - The style of numbering used for ordered lists

Property: list-style-type

- For unordered lists, we can use the following values with list-style-type:
 - disc (the default)
 - circle
 - square
 - none

Property: list-style-type

- For ordered lists, we can use the following values with list-style-type:
 - decimal (the default)
 - decimal-leading-zero
 - lower-alpha, upper-alpha
 - lower-roman, upper-roman
 - none

Property: list-style-type example 1

To display square bullets with unordered lists

```
ul {
    list-style-type: square;
}
```

Property: list-style-type example 2

 To display lower-case roman numerals with ordered lists

```
ol {
    list-style-type: lower-roman;
}
```

Property: list-style-type example 3

 To remove bullets from unordered lists completely:

```
ul {
    list-style-type: none;
}
```

However, the list items will still be indented...

About list markup

- As mentioned, the li element is the only element that can be a *direct child* of ul and ol elements.
- i.e. this is invalid code (*p* is a direct child of *ul*):

```
I am a list itemHelloI am a list item
```

About list markup

- Similarly, **li** elements may only appear within either **ul** or **ol** elements.
- This is invalid code (*li* is not within a *ul* or *ol*):

```
<body>
     <h2>Hello</h2>
     I am a paragraph
     I am not in a list!
</body>
```

About list markup

However, we can place anything we like within an li element:

```
<01>
  <
      <h3>A heading</h3>
      A paragraph
  <1 i>>
      <h3>Another heading</h3>
      Another paragraph
```

Exercise

Now do the List exercise