
ELT Computer Science

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Greatest appreciation goes to Martin and Shyam for sharing this well
formatted lecture materials.

Any questions?

- How was the lab session?
- What did you produce?
- Is there anything you'd like to try?

CSS selectors

What if we don't want to affect **every instance** of a tag?

- just the first h1?
- just these three paragraphs?

We can apply CSS to specific **ids** and **classes**

- `<h1 id="main_header">...</h1>`
- `<p class="important_para">...</p>`
- You can give several classes to a single element
 - `<p class="important_para intro">...</p>` *<!-- assign class "important_para" **and** "intro" -->*

Actual text of id or class doesn't matter

- just has to be unique

Referring to elements

- To refer to an **id**, use a hash #
#main_header {
 color:blue;
}
- To refer to a **class**, use a dot .
.important_para {
 background-color:orange;
}

Combining selectors

You can combine selectors in various ways

```
h1#main_header {  
    color:red;  
}
```

- Only affects `<h1>`s with `id="main_header"`

```
#main_header.important_para {  
    color:blue;  
}
```

- Only affects elements with `id="main_header"` **and** `class="important_para"`

Multiple selectors

Duplicating rules can be necessary

- multiple ways to describe relevant tags
- e.g. multiple `<p>`s need the same colour

Could just copy/paste rules

- but this is hard to read!

Solution: use a comma ,

```
h1, h2.important, #header p {  
    font-weight:bold;  
}
```

- applies to all elements matching any selector

Nesting selectors

You can select tags within other tags

```
ol li {  
    font-style:italic;  
}
```

- Only affects ``s anywhere **within** an ``
 - even if they're inside something inside the ``

```
body>h1 {  
    text-decoration:underline;  
}
```

- Only affects `<h1>`s **immediately** within the `<body>`

More selectors

You can be very specific

- choose to apply only at certain times
- or invert your choices

```
#header a:hover { ... }
```

- links inside the #header **while** mouse is over them

```
h1 .important:not(p:first-child) { ... }
```

- what does this affect?

There are always more...

Two new tags

Most tags mean something

- `<h1>` is a header: big text
- `` is emphasised: in italic

What if we want nothing?

- element just exists to be given custom rules
 - via various selectors

Two tags exist

- `<div>` - has a new line before and after (normally)
- `` - has absolutely nothing

More CSS features

- CSS offers you control
 - over pretty much anything
 - e.g. size, colour
- One important thing: **positioning**
 - where should everything be?
 - relative to what?

- Simple example: centering text

```
h1 {  
    text-align:center;  
}
```

- text is at the centre of the element

CSS positioning: relative

Given where an element is by default

- let's just move it a little

We need to specify **position** type

- and the actual position!

```
h1 {  
    position:relative;  
    top:15px; left:100px;  
}
```

- This moves the `<h1>` from where it **would** be otherwise

CSS positioning: absolute

We can also force a specific position

- not relative to some other element

```
h1 {  
    position: absolute;  
    left: 150px;  
    top: 100px;  
}
```

- Position is relative to the **top left** of the web page
- Element is “removed from flow”
 - Other elements can overlap it!

CSS positioning: fixed

We can place something on the **screen** not the page

```
h1 {  
    position:fixed;  
    left:150px;  
    top:100px;  
    height:50%;      /* 50% of screen height, not page height */  
}
```

- This won't move if page is scrolled

CSS positioning: float

What if we just want one thing next to another?

- just to the right
- just to the left

```
.go-left {  
    float:left;  
}
```

- all elements with *class="go-left"* will move towards the left
 - as far as they can

CSS positioning: clearing floats

An element with *float*: ceases to be **block level**

- this means no new line before or after
- even for `<div>`, `<h1>` etc.!

After *float*:ed elements, put a *clear:both* one:

```
<div class='go-left'>Your contents here</div>
```

```
<div class='clear-float'></div> <!-- note: no need for any contents -->
```

```
div.clear-float:
```

```
    clear:both;
```

```
}
```

More CSS

CSS is extensive

- but must be learned by practice

We can't cover everything

- even if we spent the semester on CSS!

Try things out!

If you have specific questions:

- ask me
- ask Google