

UNIVERSITY OF  
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# Hypertext Markup Language

COMP3220 Web Infrastructure

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# What is HTML?

1. The data format for Web pages
2. A markup language for structured documents
3. A platform for Web application development
4. All of the above

# Which HTML?

- HTML Tags
- HTML+
- HTML 2.0
- HTML 3.0
- HTML 3.2
- HTML 4
- HTML 4.01
- XHTML
- XHTML 2
- HTML 5
- HTML 5.1
- HTML 5.1 2nd ed.
- HTML 5.2
- HTML 5.3
- ...

# This is an example HTML document

1. First paragraph
2. Second paragraph

This is the first paragraph. *It doesn't really say very much.* Now is the time for all good men to come to the aid of the party.

This is the second paragraph. The quick brown [fox](#) jumped over the lazy dog.

# HTML source

```
<!DOCTYPE html>
<html>
  <head>
    <title>My Document</title>
  </head>
  <body>
    <h1>This is an example HTML document</h1>
    <ol>
      <li>First paragraph</li>
      <li>Second paragraph</li>
    </ol>
    <p>This is the first paragraph. <em>It doesn't really say
      very much.</em> Now is the time for all good men to come
      to the aid of the party.</p>
    <p>This is the second paragraph. The quick brown
      <a href="http://example.org/">fox</a> jumped over the
      lazy dog.</p>
  </body>
</html>
```

# HTML markup basics

Tags that structure a document as a hierarchy of elements

```
<p> ... </p>
```

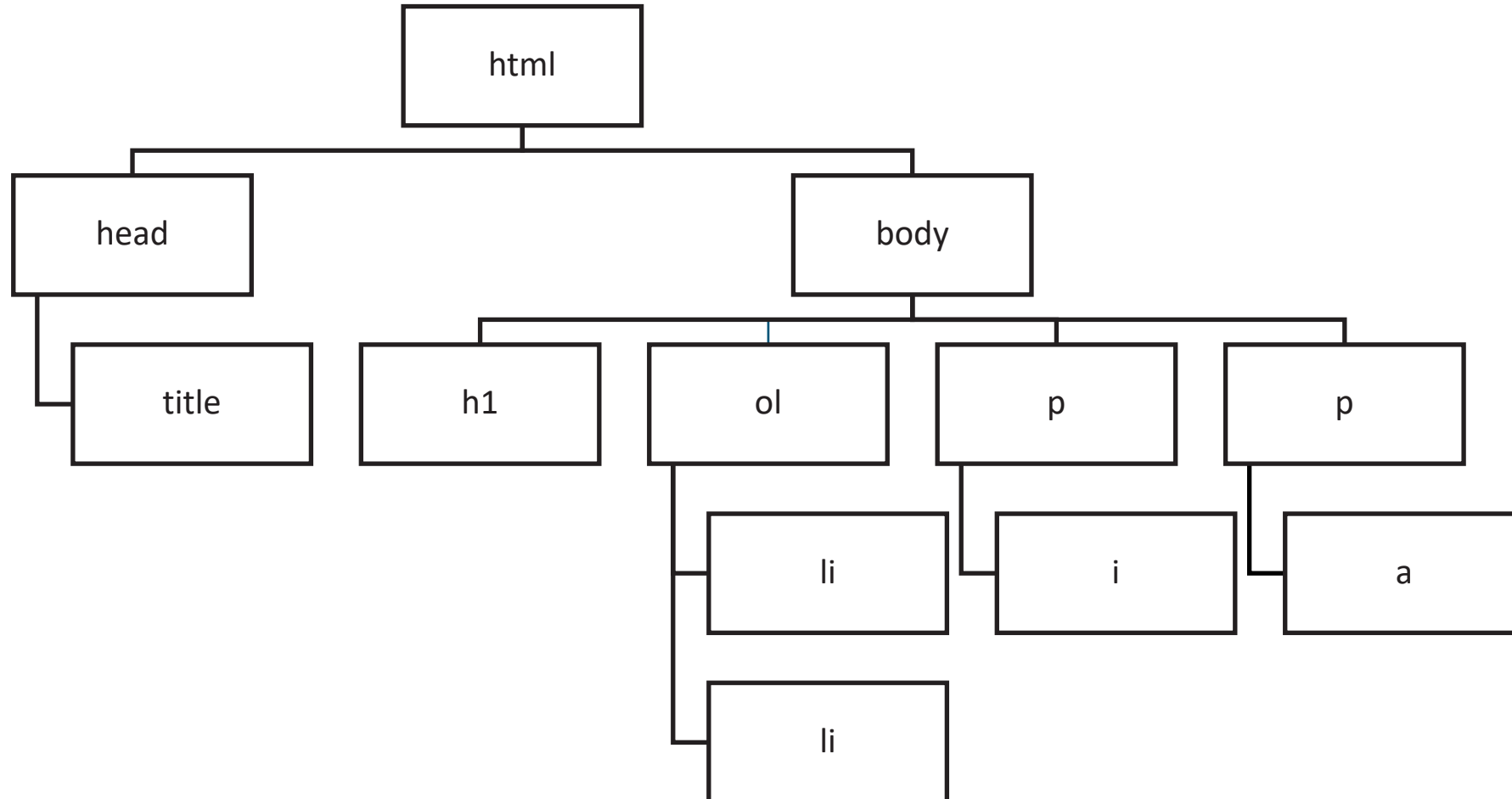
Attributes that modify elements

```
<a href="...">...</a>
```

Entity references that represent character sequences

```
R&amp;D
```

# Element structure





# Evolution of HTML (1991-1995)

Initially a language for encoding simple document semantics

```
<h1>Things to See in London</h1>  
<p>The <i>Millennium Dome</i> is great.</p>
```

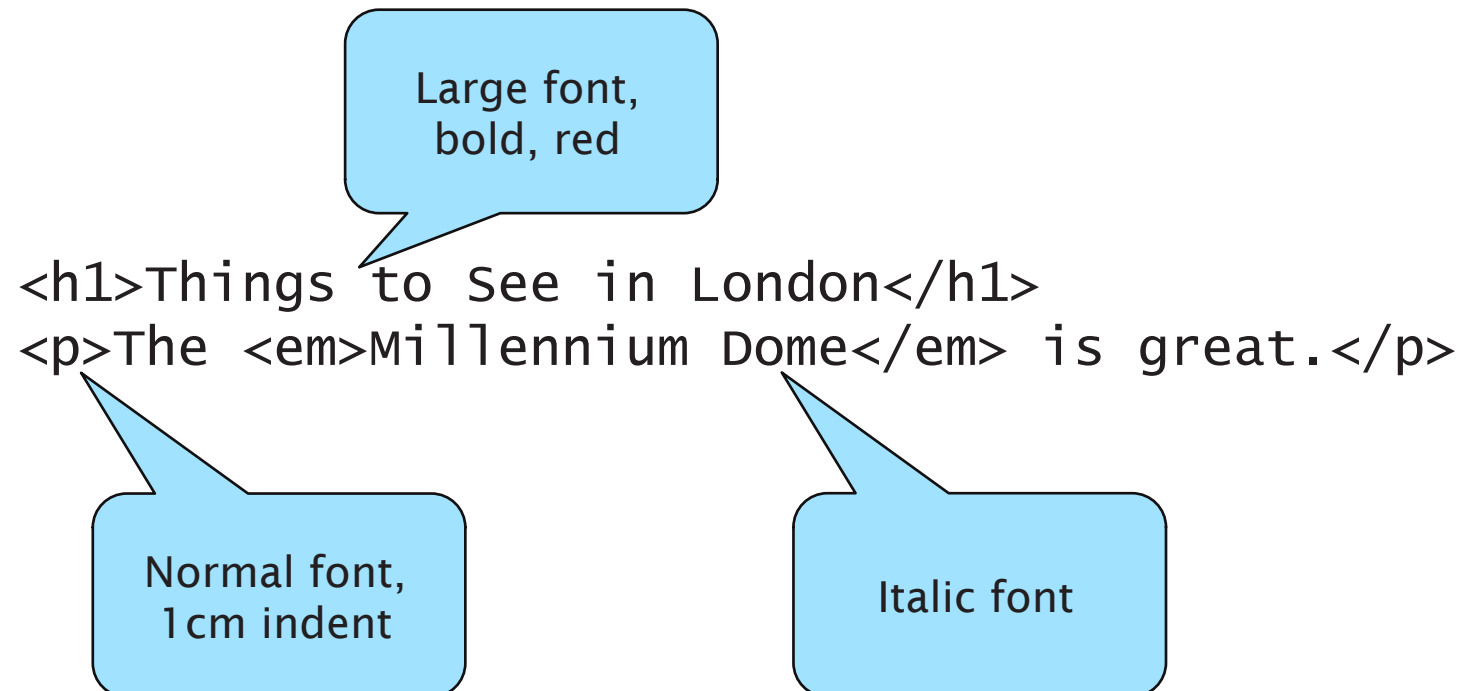
# Evolution of HTML (1996-2000)

Subsequently extended to allow more design precision and visual effects

```
<h1><center>Things to See in London</center></h1>  
<p><font size="3" text="#FF0000">The <i>Millennium Dome</i> is  
<blink>great</blink>.</font></p>
```

# Evolution of HTML (2000-)

Separation of semantics from presentation using stylesheets



## Further reading

Raggett, D. (1998) *Raggett on HTML 4*. Boston, MA: Addison-Wesley. Chapter 2.  
<https://www.w3.org/People/Raggett/book4/ch02.html>

Next Lecture: HTML5