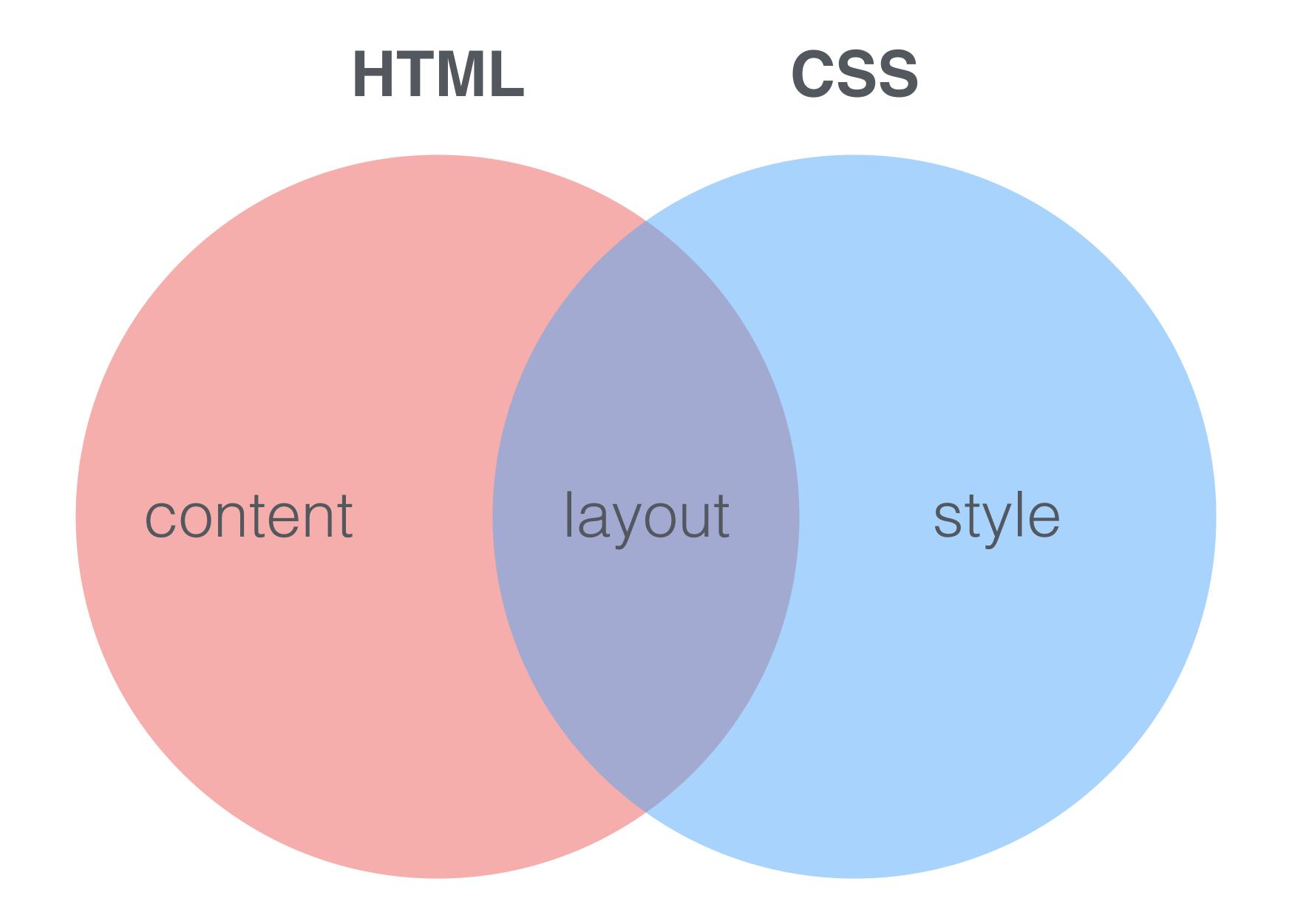
HTML & CSS

Layout laid out



WITH CSS

WITHOUT CSS

CSS

CSS (Cascading Style Sheets) is a declarative language that controls how webpages look in the browser. The browser applies CSS style declarations to selected elements to display them properly. A style declaration contains the properties and their values, which determine how a webpage looks.

CSS is one of the three core Web technologies, along with HTML and JavaScript. CSS usually styles HTML elements, but can be also used with other markup languages like SVG

A CSS rule is a set of properties associated with a selector. Here is an example that makes every HTML paragraph yellow against a black background:

```
1 /* The selector "p" indicate that all paragraphs in the document will be affected by that rule */
3 /* The "color" property defines the text color, in this case yellow. */
     /* The "background-color" property defines the background color, in this case black. */
     background-color: black
```

"Cascading" refers to the rules that govern how selectors are prioritized to change a page's appearance. This is a very important feature, since a complex website can have thousands of CSS rules.

Learn more

General knowledge

CSS

Learn more

CSS (Cascading Style Sheets) is a declarative language that controls how webpages look in the browser. The browser applies CSS style declarations to selected elements to display them properly. A style declaration contains the properties and their values,

CSS is one of the three core Web technologies, along with HTML and JavaScript. CSS usually styles HTML elements, but can be also used with other markup languages like SVG or XML.

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Learn more

General knowledge

- Learn CSS
- CSS on Wikipedia

Technical reference

- The CSS documentation on MDN
- . The CSS Working Group current work

Learn about CSS

The web course on codecademy.com

Document Tags and Contributors



```
article li > a:hover {
   border: 1px solid red;
   font-style: italic;
}
```

```
article li > a:hover {
   border: 1px solid red;
   font-style: italic;
}
```

```
rule

article li > a:hover {
    border: 1px solid red;
    font-style: italic;
}
```

```
article li > a:hover {
    [border: 1px solid red;
    font-style: italic;
}
```

HTML & CSS

```
article li > a:hover {
   border: 1px solid red;
   font-style: italic;
}
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```
article li > a:hover {
   border: 1px solid red;
   font-style: italic;
}
```

```
article lin > a:hover {
   border: 1px solid red;
   font-style: italic;
}
```

```
property
article lin > a:hover {
    border: 1px solid red;
    font-style: italic;
}
```

```
article li > a:hover {
   border: 1px solid red;
   font-style: italic;
}
```

```
article li > a:hover {
apply these styles > border: 1px solid red;
font-style: italic;
}
```

```
article li > a:hover) ←

apply these styles → border: 1px solid red;

font-style: italic;

to any elements matching this selector
```

```
article li > a:hover) ←

apply these styles → border: 1px solid red;

font-style: italic;
}

to any elements matching this selector
```

even for any future changes

```
apply these styles—

border: 1px solid red;

font-style: italic;

}

to any elements matching this selector

even for any future changes declarative!
```

tag

tag class

tag class id

tag

class

id

attribute

tag

class

id

attribute

pseudo-element

tag

class

id

attribute

pseudo-element

pseudo-class

tag

class

id

attribute

pseudo-element

pseudo-class



```
tag input
```

class .btn

id #upload

attribute [type="file"]

pseudo-element ::after

pseudo-class : hover

* *

tag.class

tag .class

tag, class

tag>.class

tag.class element with BOTH tag AND.class

tag .class

tag, class

tag>.class

tag.class element with BOTH tag AND.class

tag .class element with .class whose ANCESTOR matches tag

tag, class

tag>.class

tag.class element with BOTH tag AND class
tag.class element with class whose ANCESTOR matches tag
tag.class element with EITHER tag OR class
tag.class

tag.class element with BOTH tag AND .class

tag .class element with .class whose ANCESTOR matches tag
tag, .class element with EITHER tag OR .class
tag>.class element with .class whose PARENT matches tag

CASCADING STYLE SHEETS

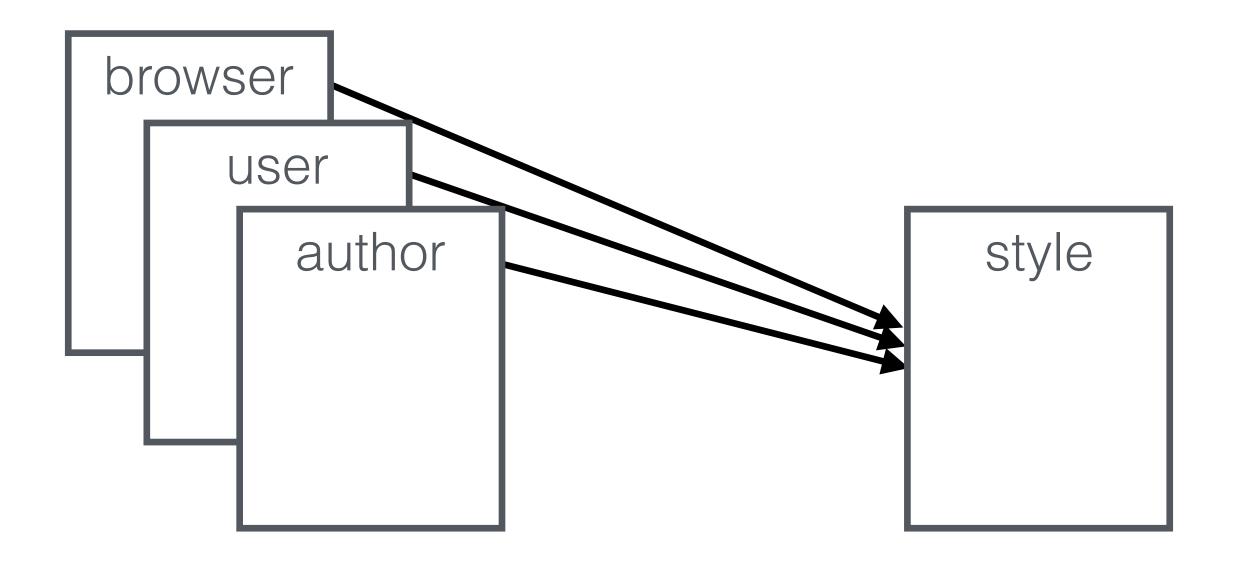
CASCADING STYLE SHEETS

CASCADING

In ~1994... CSS had one feature that distinguished it from all the [competing style languages]: it took into account that on the Web the style of a document couldn't be designed by either the author or the reader on their own, but that their wishes had to be combined, or "cascaded," in some way.

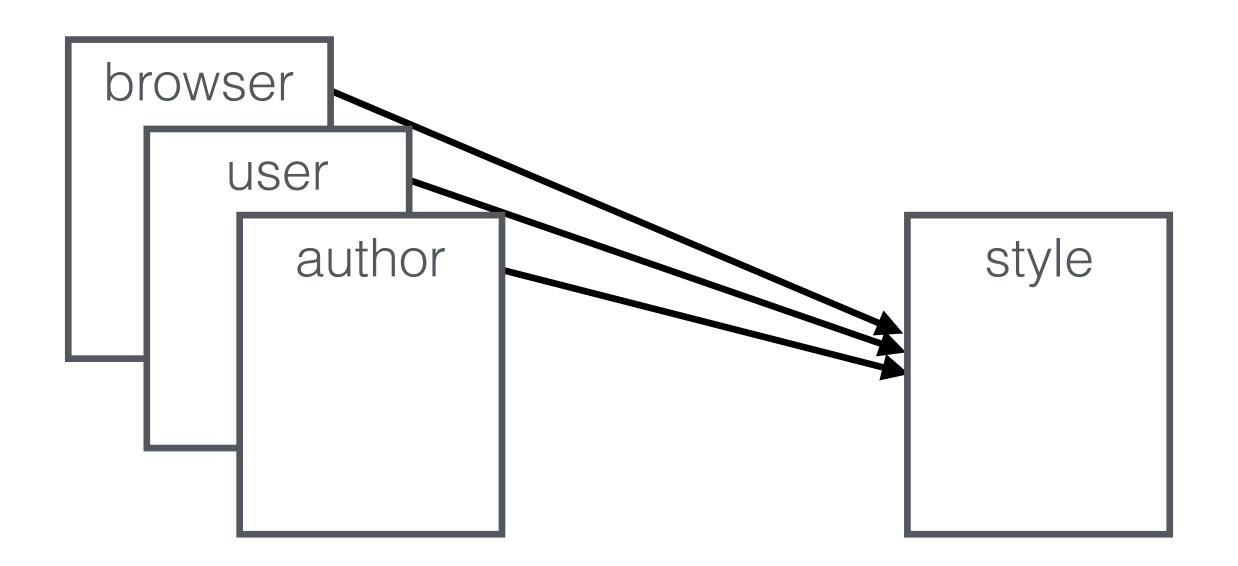
CASCADING STYLE SHEETS, DESIGNING FOR THE WEB, BY HÅKON WIUM LIE AND BERT BOS (1999) - CHAPTER 20

CASCADING



CASCADING

An element's style is a merge of every rule whose selector matches



```
styles-A.css
li {
  color: red;
}
```

```
styles-B.css
li {
  font-size: 40px;
}
```

```
style _______
```

```
styles-A.css
li {
  color: red;
}
```

```
styles-B.css
li {
  font-size: 40px;
}
```

```
styles-A.css
li {
  color: red;
}
```

```
styles-B.css
li {
  font-size: 40px;
}
```

```
style

element.style {
    background-color: ■blue;
}

li {
    color: ■red;
}

li {
    styles-A.css:1
    font-size: 40px;
}

li {
    user agent stylesheet
    display: list-item;
    text-align: -webkit-match-parent;
}
```

```
styles-A.css
li {
  color: red;
}
```

```
styles-B.css
li {
  font-size: 40px;
}
```

```
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element.style {
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element.style {
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li {
    styles-A.css:1
    font-size: 40px;
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li {
    user agent stylesheet
    display: list-item;
    text-align: -webkit-match-parent;
}
```

```
styles-A.css
                                                                           styles-B.css
                   index.html
<head>
                                                                        li {
                                                     li {
 <link rel="stylesheet" href="styles-B.css" />
                                                                          font-size: 40px;
                                                       color: red;
  <link rel="stylesheet" href="styles-A.css" />
</head>
<body>
 <u1>
    style="background-color:blue;">A
  </body>
                                                                     style
                                                     element.style {
                                                       styles-A.css:1
                                                       color:  red;
                     view
                                                                               styles-B.css:1
                                                       font-size: 40px;
                                                     li {
                                                                          user agent stylesheet
                                                       display: list-item;
                                                       text-align: -webkit-match-parent;
```

What happens when declarations conflict?



<div id="thing"></div>

```
div {
  background: red;
}
```

```
tag
```

```
#thing {
   background: blue;
}
```

<div id="thing"></div>

```
div {
  background: red;
}
```



```
#thing {
   background: blue;
}
```

<div class="foo"></div>

```
div {
  background: red;
}
```

```
class
tag
```

```
•foo {
  background: green;
}
```



<div class="foo"></div>

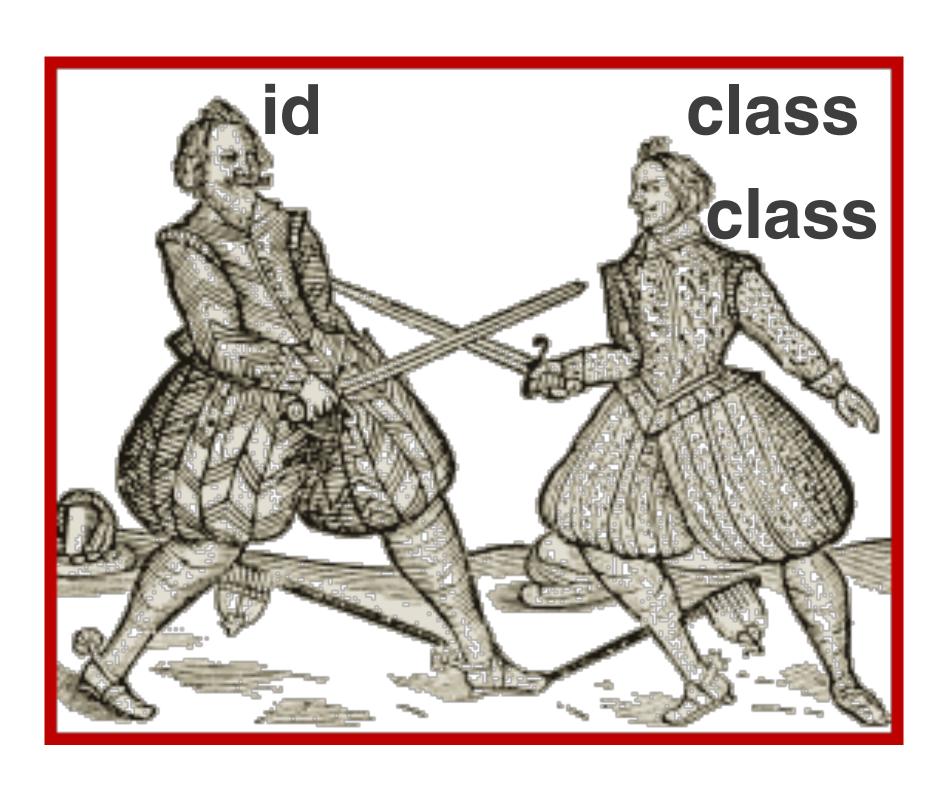
```
div {
  background: red;
}
```



```
•foo {
   background: green;
}
```

<div id="thing" class="foo bar"></div>

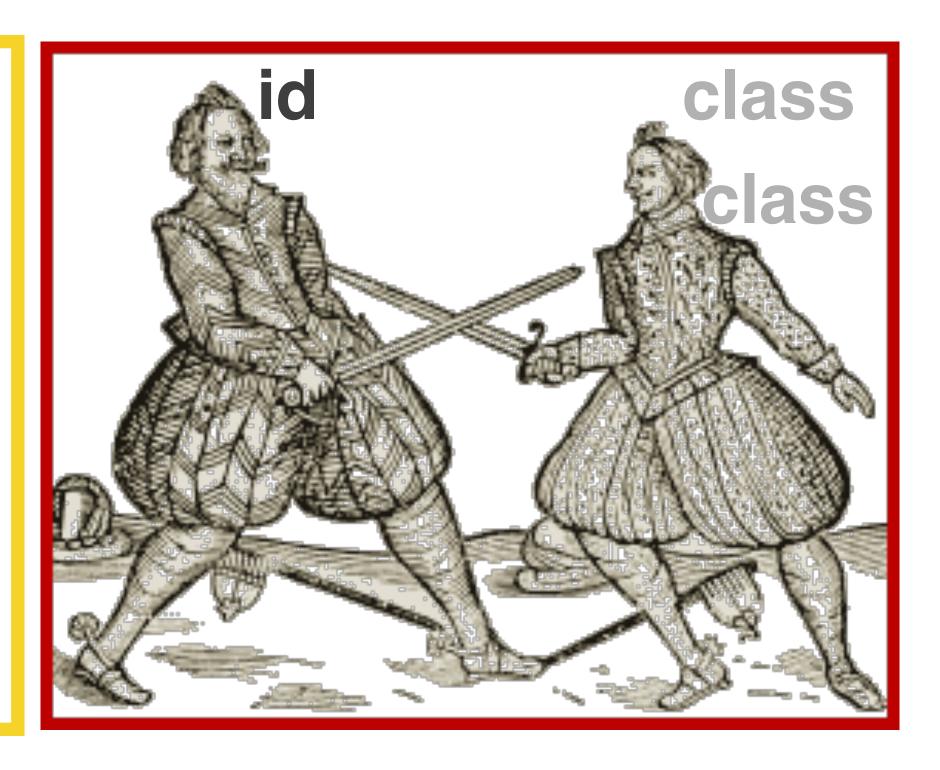
```
#thing {
   background: blue;
}
```



```
foo.bar {
  background: green;
}
```

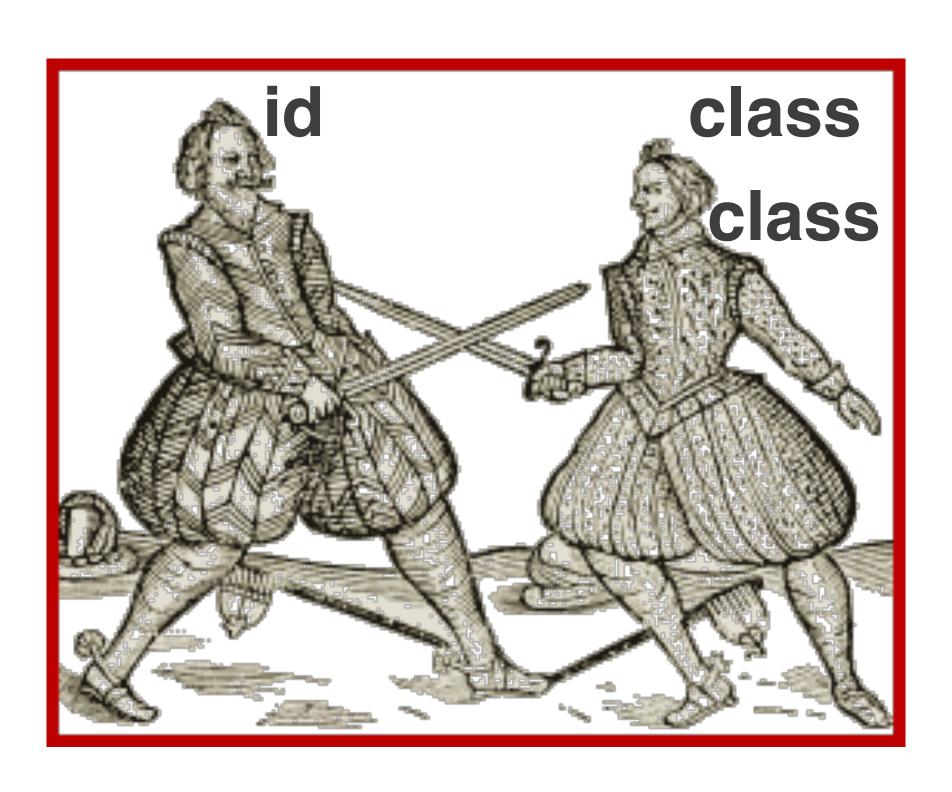
<div id="thing" class="foo bar"></div>

```
#thing {
   background: blue;
}
```



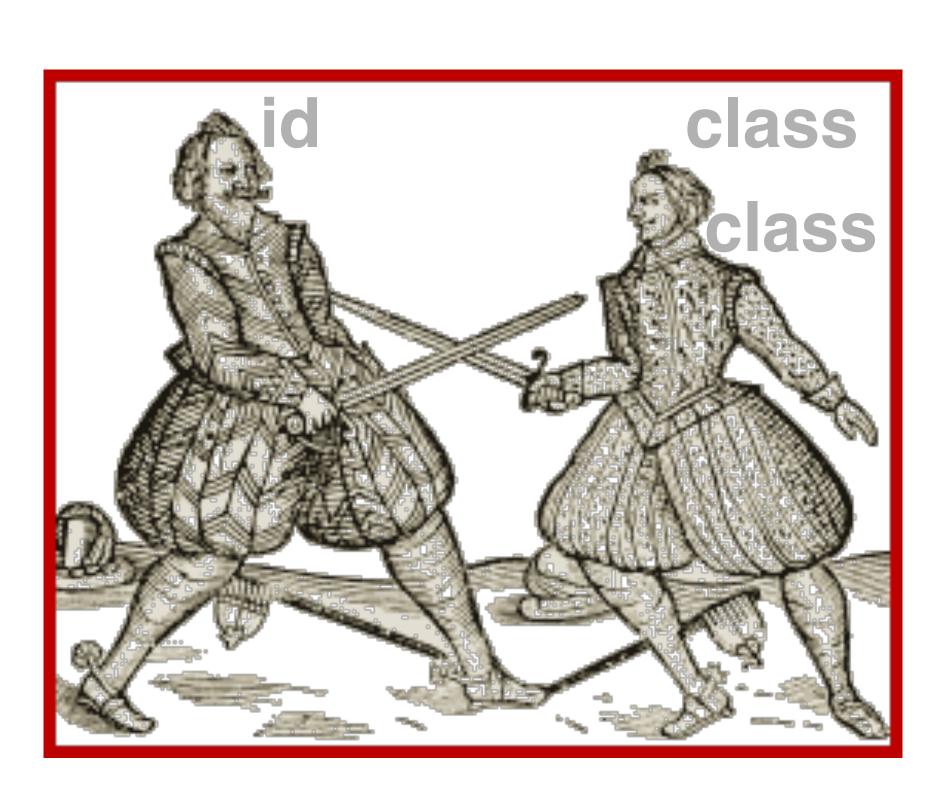
```
.foo.bar {
  background: green;
}
```

```
<div class="outer">
     <div id="thing" class="foo" style="background:orange;"></div>
   </div>
#thing {
  background: blue;
```



```
•outer •foo {
  background: green;
```

```
<div class="outer">
     <div id="thing" class="foo" style="background:orange;"></div>
   </div>
#thing {
  background: blue;
```



```
outer foo {
 background: green;
```

