

CSS: Cascades and selectors

In the program...

- **Cascade**
- **Selectors**
- **Priorities**
- **Pseudo**

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conflicts

- the same document can use several stylesheets
- there can be conflicting rules

conflicts

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- there can be conflicting rules
 1. selectors select common elements
 2. related to the same property
 3. assign different values

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- there can be conflicting rules
 1. selectors select common elements
 2. related to the same property
 3. assign different values

How to resolve these conflicts?

Which rule is applied?

Cascades

The mechanism of **cascade** determines the applied rules.

3 filters stages:

1. by media
2. by origin
3. by selector specificity

Media

possibility to specify the media in which the rules defined in the stylesheet are applied

Attribute **media** of the tag `<link>`

ex: `media="screen"`–`media="print"`

Origin of styles

3 possible origins for style sheets

Author defined by the author of the page

User defined by the person viewing the page

Navigator defined by the browser

in general :*author*>*user*>*Navigator*

More details : http://openweb.had.org/articles/cascade_css

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Selectors

The **selector** determines the elements on which the rule is applied.

need to know how

- set appropriate selectors
- priorities between conflicting rules are managed

Simple selectors:

E any element whose tag is **<E>**

***** any element

Selectors and attributes

E[att] any element **E** whose attribute **att** is defined

ex: p[lang], img[alt], *[title]

E[att=val] any element **E** whose attribute **att** is *val*

ex: p[lang=en]

E[att~=val] any element **E** whose attribute **att** is a list of words separated by spaces, one of these words is exactly *val*

Selectors and attributes

E[att^="prefix"] any element **E** whose attribute value **att** starts exactly with *prefix*

ex: a[href^="http://ft.univ-tlemcen.dz"]

E[att\$="suffix"] any element **E** whose attribute value **att** to ends exactly with *suffix*

ex: img[src\$=".png"], a[href\$=".pdf"]

E[att*="val"] any element **E** whose attribute value **att** contains the substring *val*

ex: figure[alt*="diagram"], *[title*="timo"]

Class and id selector

Special cases of attributes **class** And **id**:

E.c any element **E** belonging to the **c-class**
equivalent to **E[class~=**c**]**

ex: div.exercise, *.solution,
div.rmq[title^="NB"]

E#ident any element **E** including the **id** worth **identity**
equivalent to **E[id=**ident**]**

ex: img#joconde, *#joconde, #unique

Pseudo-Class and Pseudo-element selectors

E:pseudoC any element **E** belonging to the **pseudo-class** *pseudoC*

ex: a:visited, a.file:hover

E::pseudoE All **pseudo-element** *pseudoE* of the element **E**

ex: h1::first-letter, p[lang=en]::first-line

Combination of selectors

Builds on the structure of **tree** of the document

Whether **Sel1** And **Sel2** are selectors:

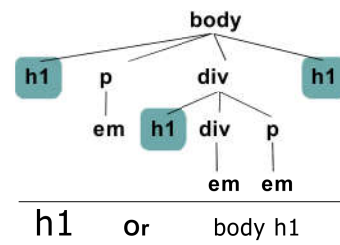
Sel1 Sel2 any item selected by **Sel2** **descendant**(nested in) of an element selected by **Sel1**

Sel1>Sel2 any item selected by **Sel2** who is **a son** of one item selected by **Sel1**

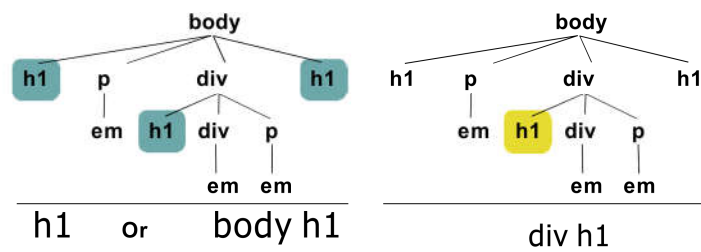
Sel1 + Sel2 any item selected by **Sel2** Who **follows immediately** an item selected by **Sel1** (first following **brother**)

Sel1~Sel2 any item selected by **Sel2** Who **follows** an element selected by **Sel1** (A following **brother**)

Examples

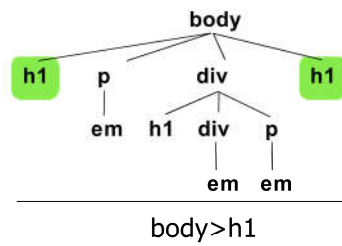
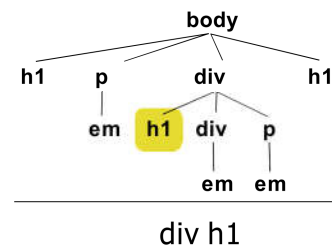
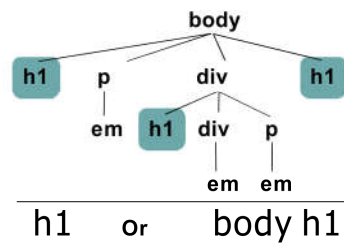


Examples

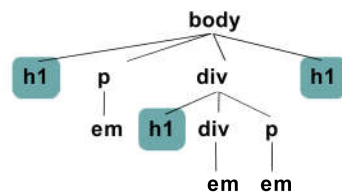


div+h1

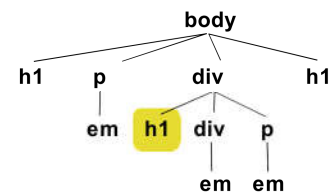
Examples



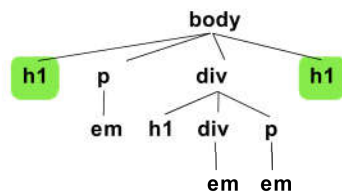
Examples



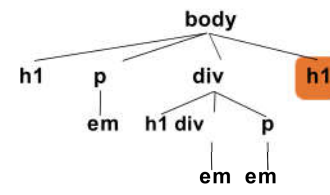
`h1 or body h1`



`div h1`

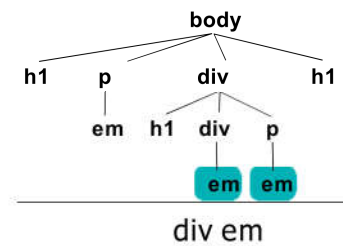


`body > h1`

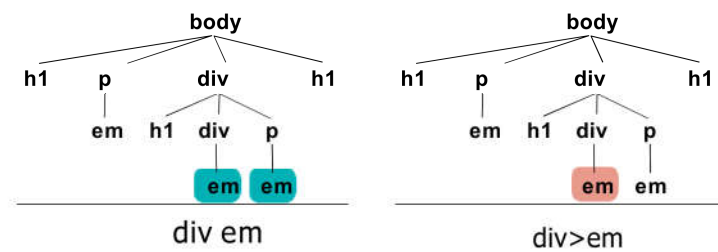


`div + h1`

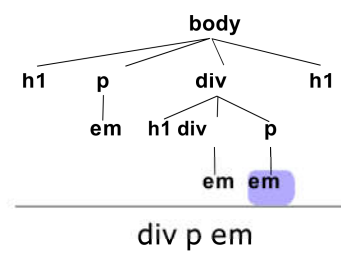
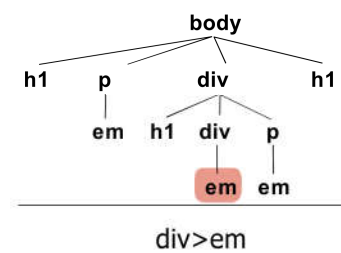
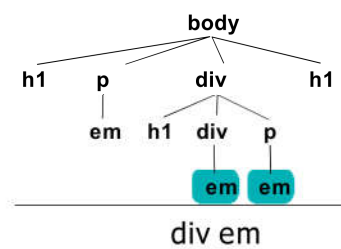
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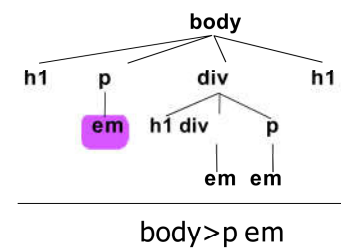
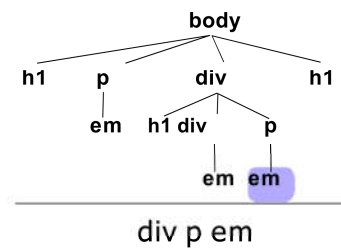
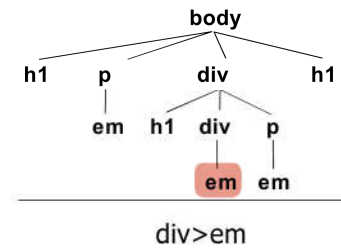
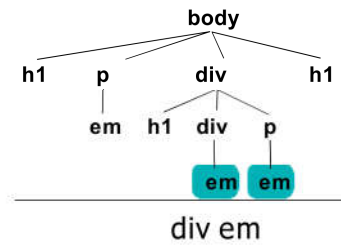
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Conflicts between rules

Priority calculation

We count for each selector:

- **a** number of id selectors (=number of #)
- **b** number of classes, pseudo-classes or attributes
- **c** number of elements or pseudo-elements

The selector receives priority **ABC**.

The selector with the highest priority wins.

In case of an equality, the last declaration wins.

Examples

selector	a	b	c
* {...} h1 {...} div.answer {...} # joconde {...} div a {...} div a:visited {...} p span.file {...} p a[href\$=".pdf"] {...} p.statement a[href\$=".pdf"] {...} ol.exercise li.question {...} div#slide img.left {...} article p::first-letter {...} article#special p::first-letter {...}			

Examples

selector	a	b	c
* {...}	0	0	0
h1{...}			
div.answer{...}			
# joconde{...}			
div a{...}			
div a:visited{...}			
p span.file{...}			
p a[href\$=".pdf"]{...}			
p.statement a[href\$=".pdf"]{...}			
ol.exercise li.question{...}			
div#slide img.left{...}			
article p::first-letter{...}			
article#special p::first-letter{...}			

Examples

selector	a	b	c
* {...}	0	0	0
h1 {...}	0	0	1
div.answer {...}			
# joconde {...}			
div a {...}			
div a:visited {...}			
p span.file {...}			
p a[href\$=".pdf"] {...}			
p.statement a[href\$=".pdf"] {...}			
ol.exercise li.question {...}			
div#slide img.left {...}			
article p::first-letter {...}			
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Examples

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* {...}	0	0	0
h1 {...}	0	0	1
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p span.file {...}			
p a[href\$=".pdf"] {...}			
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ol.exercise li.question {...}			
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Examples

selector	a	b	c
* {...}	0	0	0
h1 {...}	0	0	1
div.answer {...}	0	1	1
# joconde {...}	1	0	0
div a {...}			
div a:visited {...}			
p span.file {...}			
p a[href\$=".pdf"] {...}			
p.statement a[href\$=".pdf"] {...}			
ol.exercise li.question {...}			
div#slide img.left {...}			
article p::first-letter {...}			
article#special p::first-letter {...}			

Examples

selector	a	b	c
* {...}	0	0	0
h1 {...}	0	0	1
div.answer {...}	0	1	1
# joconde {...}	1	0	0
div a {...}	0	0	2
div a:visited {...}			
p span.file {...}			
p a[href\$=".pdf"] {...}			
p.statement a[href\$=".pdf"] {...}			
ol.exercise li.question {...}			
div#slide img.left {...}			
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p span.file {...}	0	1	2
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div a {...}	0	0	2
div a:visited {...}	0	1	2
p span.file {...}	0	1	2
p a[href\$=".pdf"] {...}	0	1	2
p.statement a[href\$=".pdf"] {...}	0	2	2
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p a[href\$=".pdf"] {...}	0	1	2
p.statement a[href\$=".pdf"] {...}	0	2	2
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div a:visited {...}	0	1	2
p span.file {...}	0	1	2
p a[href\$=".pdf"] {...}	0	1	2
p.statement a[href\$=".pdf"] {...}	0	2	2
ol.exercise li.question {...}	0	2	2
div#slide img.left {...}	1	1	2
article p::first-letter {...}			
article#special p::first-letter {...}			

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* {...}	0	0	0
h1 {...}	0	0	1
div.answer {...}	0	1	1
# joconde {...}	1	0	0
div a {...}	0	0	2
div a:visited {...}	0	1	2
p span.file {...}	0	1	2
p a[href\$=".pdf"] {...}	0	1	2
p.statement a[href\$=".pdf"] {...}	0	2	2
ol.exercise li.question {...}	0	2	2
div#slide img.left {...}	1	1	2
article p::first-letter {...}	0	0	3
article#special p::first-letter {...}			

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div.answer {...}	0	1	1
# joconde {...}	1	0	0
div a {...}	0	0	2
div a:visited {...}	0	1	2
p span.file {...}	0	1	2
p a[href\$=".pdf"] {...}	0	1	2
p.statement a[href\$=".pdf"] {...}	0	2	2
ol.exercise li.question {...}	0	2	2
div#slide img.left {...}	1	1	2
article p::first-letter {...}	0	0	3
article#special p::first-letter {...}	1	0	3

```

<p>zero</p>
<h1>Title</h1>
<p>first</p>
<p>second</p>
<p>third</p>
<p lang="en">fourth </p> <p
class="blue">fifth</p> <p
class="blue">sixth</p>
<p class="blue" id="special">7th</p>
<p>eighth</p>
<div>
  <p>ninth</p>
  <p lang="en">tenth</p>
</div>
<p>eleventh </p>
<h1>Second title </h1>
<p>twelfth</p>

```

Web and medical ontologies

bg=background-color

```

1 p{bg :pink;}
2 h1+p{bg:red; }
3 div>p{bg:yellow; }
4 p#special{bg: gold; }
5 p[lang=en]{bg: green; }
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```

Ms. KAZI TANI L.F. UABB-Tlemcen-

```

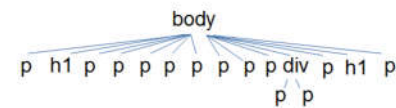
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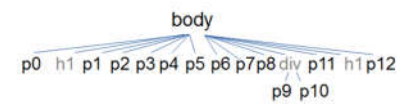
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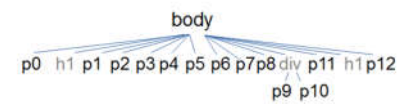
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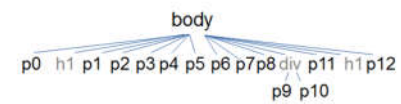
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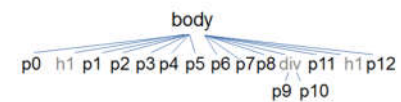
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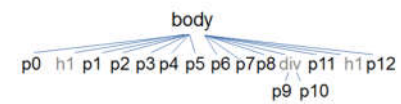
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6 p.blue{bg:lightblue; }
7 p+p{ bg:lightgreen; }

```



```

<p>zero</p> 1
<h1>Title</h1>
<p>first</p> 1 2
<p>second</p> 1
<p>third</p> 1
<p lang="en">fourth </p> <p 1 5
class="blue">fifth</p> 1
<p class="blue">sixth</p> 1
<p class="blue" id="special">7th</p> 1 4
<p>eighth</p> 1
<div>
  <p>ninth</p> 1 3
  <p lang="en">tenth</p> 1 3 5
</div>
<p>eleventh 1 </p>
<h1>Second title </h1>
<p>twelfth</p> 1 2

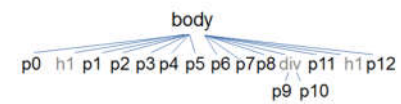
```

bg=background-color

```

1 p{bg :pink;}
2 h1+p{bg:red; }
3 div>p{bg:yellow; }
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```



```

<p>zero</p>
<h1>Title</h1>
<p>first</p>
<p>second</p>
<p>third</p>
<p lang="en">fourth </p>
class="blue">fifth</p>
<p class="blue">sixth</p>
<p class="blue" id="special">7th</p>
<p>eighth</p>
<div>
  <p>ninth</p>
  <p lang="en">tenth</p>
</div>
<p>eleventh </p>
<h1>Second title </h1>
<p>twelfth</p>

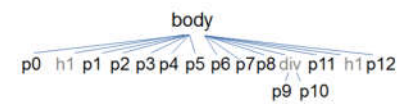
```

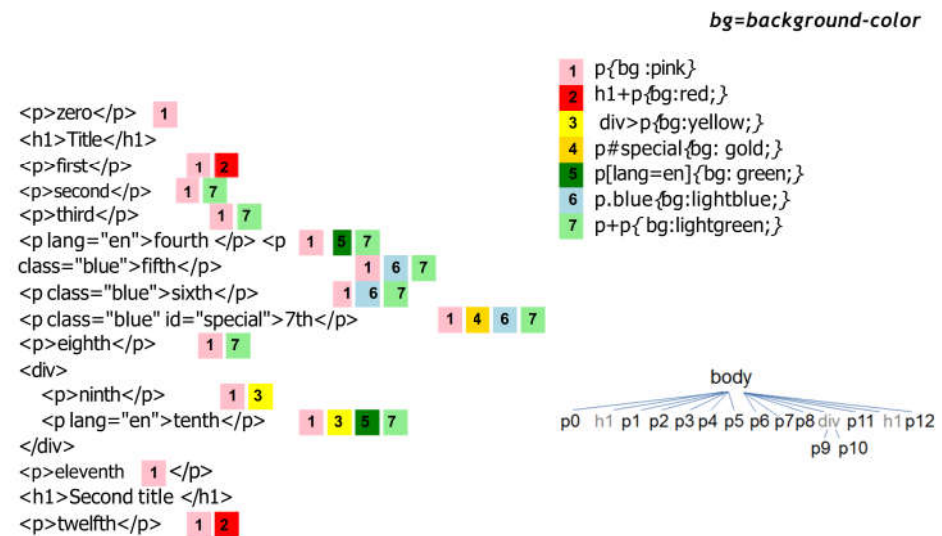
bg=background-color

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```





	a	b	c
1	0	0	1
2	0	0	2
3	0	0	2
4	1	0	1
5	0	1	1
6	0	1	1
7	0	0	2

bg=background-color

	a	b	c
1	0	0	1
2	0	0	2
3	0	0	2
4	1	0	1
5	0	1	1
6	0	1	1
7	0	0	2

4 >> 6 5 >> 7 3 >> 2 1

bg=background-color

	a	b	c
1	0	0	1
2	0	0	2
3	0	0	2
4	1	0	1
5	0	1	1
6	0	1	1
7	0	0	2

4 >> 6 5 >> 7 3 >> 2 1

bg=background-color

	a	b	
1	0	0	1
2	0	0	2
3	0	0	2
4	1	0	1
5	0	1	1
6	0	1	1
7	0	0	2

4 >> 6 5 >> 7 3 > 2 1

bg=background-color

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6	0	1	1
7	0	0	2

4 >> 6 5 >> 7 3 >> 2 1

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4 >> 6 5 >> 7 3 >> 2 1

bg=background-color

	a	b	
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2	0	0	2
3	0	0	2
4	1	0	1
5	0	1	1
6	0	1	1
7	0	0	2

4 >> 6 5 >> 7 3 >> 2 1

```

<p>zero</p> 1
<h1>Title</h1>
<p>first</p> 2
<p>second</p> 7
<p>third</p> 7
<p lang="en">fourth </p> 5
class="blue">fifth</p> 6
class="blue">sixth</p> 6
<p class="blue" id="special">7th</p> 4
<p>eighth</p> 1 7
<div>
  <p>ninth</p> 1 3
  <p lang="en">tenth</p> 1 3 5 7
</div>
<p>eleventh 1 </p>
<h1>Second title </h1>
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class="blue">sixth</p>
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```

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4 >> 6 5 >> 7 3 > 2 1

```

<p>zero</p>
<h1>Title</h1>
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<p class="blue" id="special">7th</p>
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<p>eleventh </p>
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6	0	1	1
7	0	0	2

4 >> 6 5 >> 7 3 > 2 1

ex-selector.html

Inheritance

- When for an element no rule defines a value for a property, it is the value of this property for its parent that is applied
- Not all properties are inheritable
ex : `margin`, `padding`, etc
- The property `inherit` allows you to act on inheritance

example

In the program...

- Cascade
- Selectors
- **Priorities**
- Pseudo

In the program...

- Cascade
- Selectors
- Priorities
- **Pseudo**

pseudo-classes

Structural

:empty an element **E** without descendant (including text node)

:first-child an element which is the first child of another element

Ex : `div.exercise:first-child`

:last-child element that is last child of another element

:nth-child (*an+b*) element (*an+b*)-th child of another element

Ex : `div:nth-child(3)`, `div:nth-child(2n)`, `div:nth-child(even)`,
`div[idx]:nth-child(3n+1)`

:nth-last-child (*an+b*) (*an+b*)-th child from the end

:nth-of-type (*an+b*) (*an+b*) nth element of the selected type and who have the same father

pseudo-classes / pseudo-elements

Dynamics

:hover is "under" the mouse pointer

:visited (<To>only) previously visited link

:link (<To>only) link not yet visited

Pseudo-elements

::first line the first "formatted" line of an element

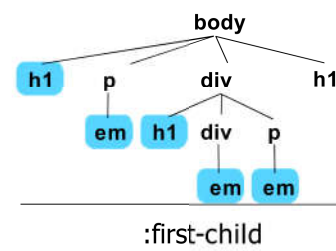
::first-letter the first "formatted" letter of an element

::before insert content before element

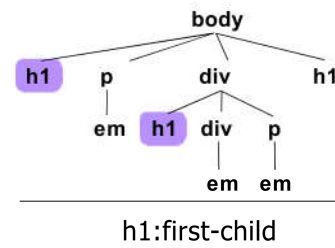
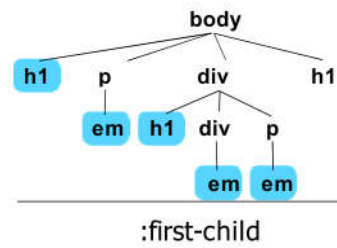
::after insert content after element

example

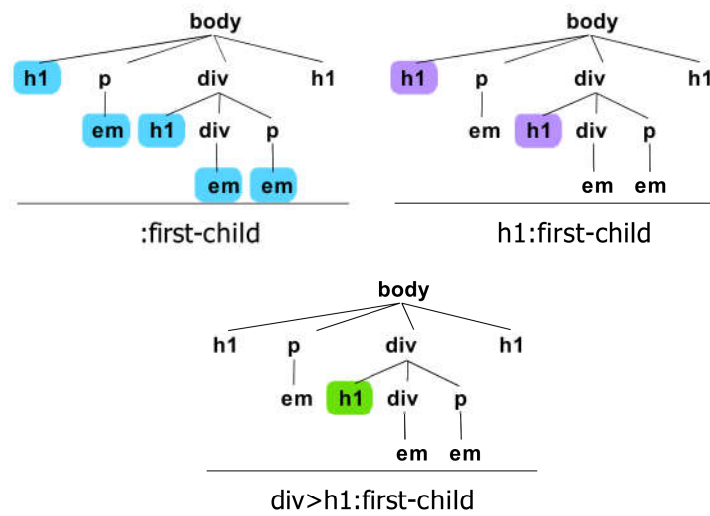
examples



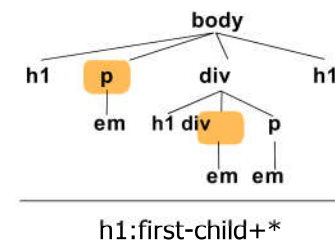
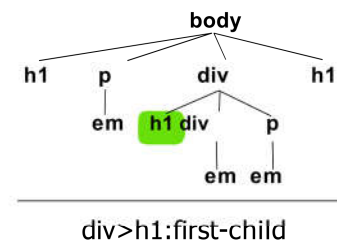
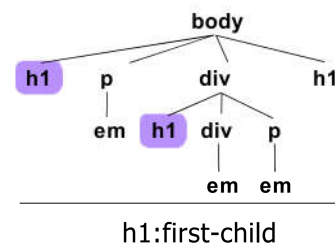
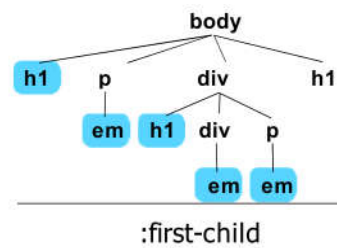
examples



examples



examples



example

