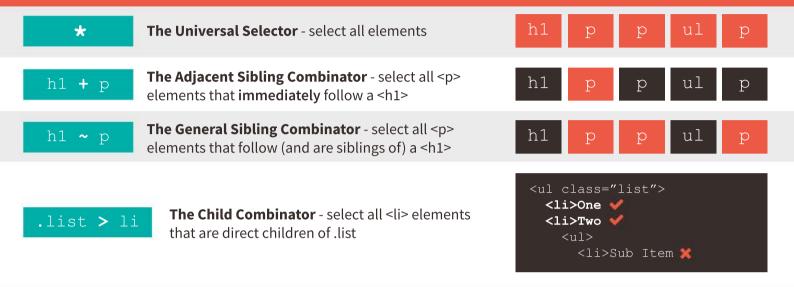
## The Ultimate

# CSS SELECTORS

Cheatsheet

#### **BASIC SELECTORS & COMBINATORS**



## **ATTRIBUTE SELECTORS** - Target through HTML Attributes

Input[type="submit"]

Target button elements if they have the disabled attribute applied

Input[type="submit"]

Target input elements if they have a type attribute with an exact value of submit

Input[type="submit"]

Target input elements if they have a type attribute with an exact value of submit

Input[type="submit"]

Target input elements if they have a type attribute with an exact value of submit

Input[type="submit"]

Target input elements that have a href value that starts with http://

Input[type="submit"]

Target input elements that have a href value that ends with http://

Input[type="submit"]

Target input elements that have a href value that ends with http://

Input[type="submit"]

Target input elements that have a href value that ends with http://

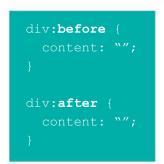
Input[type="submit"]

Target input elements that have a href value that ends with http://

Input[type="submit"]

Target input elements that have a href value that ends with http://

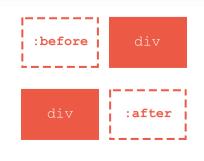
**PSEUDO-ELEMENTS** - These target elements that do not exist in the HTML (as opposed to pseudo-classes)



The **:before** and **:after** pseudo-elements allow you to insert content before or after any HTML element that isn't self closing (like <img> and <input>).

The content property is required but can be left blank.

These pseudo-elements can be treated and styled like any other element.



Pseudo-elements continued...

#### **PSEUDO-ELEMENTS** CONTINUED

p:first-line Target the first line of text p:first-letter Target the first letter The following pseudo-elements are not in the specification and currently have varying implementations in the different browsers. They also require the double colon pseudo-element syntax. Lorem ipsum dolor sit amet, consectetur adipiscing elit. p::-moz-selection Style sections that have been Aliquam in pharetra ligula, eget maximus leo. Aenean p::selection highlighted by the user pretium mi et mauris mollis malesuada. input::-webkit-input-placeholder Style an input element's input::-ms-input-placeholder placeholer text Placeholder Text input::-moz-placeholder These don't work when comma input::placeholder separated at the moment. **STATE BASED PSEUDO-CLASSES** (The boring pseudo-classes) Selects all unvisited links :link Selects elements on mouse hover :hover Selects all visited links :visited Selects an element whilst it is being activated by the user, for example, when the user is mid-click :active : focus Selects elements (typically form elements) that have been focused on via a click or keyboard event FORM & VALIDATION PSEUDO-CLASSES (More mostly boring pseudo-classes) Selects form elements that are in their default state :default :disabled Selects form elements that are in a disabled state :enabled Selects form elements that are not in a disabled state Applies to elements that have range limitations; e.g. :in-range <input type="number" min="0" max="5"> A value of 4 would match: in-range

A value of 6 would match :out-of-range

Form & Validation pseudo-classes continued...

:out-of-range

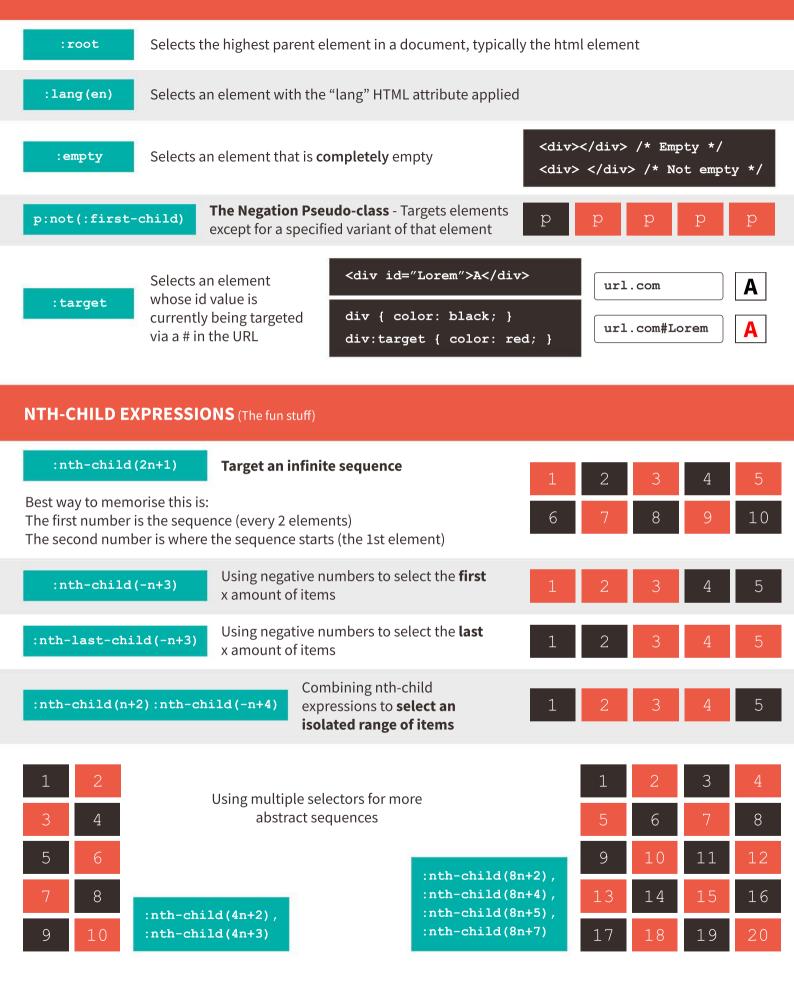
### FORM & VALIDATION PSEUDO-CLASSES CONTINUED

:valid Selects form elements whose contents are steve.greig@adtrak.co.uk valid or invalid according to their type; e.g. steve:greig@adtrak :invalid <input type="email"> :required Selects form elements that have the "required" HTML attribute Selects form elements that **don't** have the "required" HTML attribute :optional Selects elements that are user-editable, such as form input elements or :read-write elements that have the "contenteditable" HTML attribute Selects elements that are not user-editable (anything that doesn't match :read-write) :read-only Selects form elements that are in an indeterminate state; e.g. radio buttons can :indeterminate usually be checked or unchecked, but can sometimes be neither Targets radio buttons, checkboxes and select menu <option> elements when : checked they have been selected by the user. This can be particularly powerfuly, enabling what has come to be known as "The Checkbox Hack" (see page 6). **STRUCTURAL PSEUDO-CLASSES** (The more fun pseudo-classes... but they get funner)

:first-child	Selects the first child, regardless of type	h1	р	р	ul	р
p:first-of-type	Selects the first of a specific type of element	h1	р	р	ul	р
:last-child	Selects the last child, regardless of type	h1	р	р	ul	р
p:last-of-type	Selects the last of a specific type of element	h1	р	р	ul	р
:only-child	Selects an element if it is the sole child and has no other siblings	ul	р	ul		р
p:only-of-type	Selects a specific type of element if it is the sole child and has no other siblings	ul	р	ul		р
:nth-child(2)	Selects the 2nd child, regardless of type	h1	р	р	ul	р
p:nth-of-type(2)	Selects the 2nd of a specific type of element	h1	р	р	ul	р
:nth-last-child(2)	Selects the 2nd child, regardless of type, but counting from the end	h1	р	р	ul	р
p:nth-last-of-type(2)	Selects the 2nd of a specific type of element, but counting from the end	h1	р	р	ul	р

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### **MISCELLANEOUS PSEUDO-CLASSES**



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```
li:nth-child(7):last-child {
                                     Target the last item if total items = x
   width: 100%;
                                     This example targets the last child only if there
                                     are 7 items in total
 li:nth-child(4):nth-last-child(4),
                                                   Target the last few items if total
 li:nth-child(4):nth-last-child(4) ~ li {
                                                   items = x
   width: 25%;
                                                   This example targets the last 4 items
                                                   but only if there are 7 items in total
 li:first-child:nth-last-child(3),
                                                   Target all items if total items = x
 li:first-child:nth-last-child(3) ~ li {
                                                   This example targets the items if there
   background: orange;
                                                   are exactly 3 items in total
 li:first-child:nth-last-child(n+3),
                                                     Target all items if total items = x
 li:first-child:nth-last-child(n+3) ~ li {
                                                     or greater
   background: orange;
                                                     This example targets the items if
                                                     there are 3 items or greater in total
 li:first-child:nth-last-child(-n+3),
                                                     Target all items if total items = x
 li:first-child:nth-last-child(-n+3) ~ li {
                                                     or fewer
   background: orange;
                                                     This example targets the items if
                                                     there are 3 items or fewer in total
 li:first-child:nth-last-child(n+2):nth-last-child(-n+4),
 li:first-child:nth-last-child(n+2):nth-last-child(-n+4) ~ li {
   background: orange;
Target all items if total items is between x and y
This example targets the items if there are between 2 and 4 items in total
```

These selectors will work in IE9+. Kudos to Heydon Pickering and Lea Verou for making me aware of these techniques.

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**The Checkbox Hack -** In its simplect form, it can enable easy custom form controls

```
<input type="checkbox" id="abc">
<label for="abc">Option 1</label>

input {
  opacity: 0;
  position: absolute;
}

input + label {
  background: black;
}

input:checked + label {
  background: orange;
}
```

Option 1

Option 2

Option 3 🗸

Option 4

When the input and label have corresponsing "id" and "for" attributes, the label becomes clickable on behalf of the checkbox input.

We can then hide the actual checkbox input and style the label however we want.

We can use the :checked pseudo-class and the adjacent sibling combinator (+) to style the currently selected option however we want.

#### The "Lobotomised Owl Selector" - Made famous by Heydon Pickering

```
* + * {
    margin-top: 1.5em;
}
```

The lobotomised owl selector targets **anything** *that follows* anything.

```
.sidebar > * + * {
  margin-top: 1.5em;
}
```

By combining with more combinators, its most practical use is to apply consistent vertical margins to specific sections of your layout.

This example would target anything that follows anything and is a direct child of the .sidebar element, and then apply a margin-top of 1.5em.

#### Heading

Lorem ipsum dolor sit amet, consectetur adip elit. Duis rutrum quis quam eu fermentum. Aenean aliquet arcu nisi, non sagittis telius.

margin-top: 1.5em;

#### Heading

Lorem ipsum dolor sit amet, consectetur adip elit. Duis rutrum quis quam eu fermentum. Aenean aliquet arcu nisi, non sagittis telius.

margin-top: 1.5em;

#### Heading

Lorem Ipsum dolor sit amet, consectetur adip elit. Duis rutrum quis quam eu fermentum. Aenean aliquet arcu nisi, non sagittis tellus.

#### **Using Pseudo-elements to Output Attribute Values**

```
p:after {
  content: attr(datetime);
}

a:after {
  content: " ("attr(href)")";
```

Pseudo-elements are all the rage, but less mainstream is their ability to output the value of a HTML attribute on the selected element.

This example would output an <a> element's href value in brackets after the link; which could be particularly useful for print stylesheets.