Anmerkungen zu CSS(3)

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CSS - Standards

- CSS 1 - die einfachen Grundlagen

- CSS 2 / 2.1 - Erweiterungen, Visual Framework

- CSS 3 - kein geschlossener Standard mehr

  - Fortschreibung bestehender Konzepte

  - Einführung neuer Konzepte

  - Regelungen für die einzelnen Konzepte werden gerennt weiterverfolgt

Fortschreibungen bestehender Spezifikationen (Beispiele)

- CSS Syntax (allgemeine CSS-Syntax) (http://w3.org/TR/css-syntax-3)

- CSS Cascading and Inheritance (Kaskade und Vererbung) (http://w3.org/TR/css-cascade-3)

- CSS Color (Farbdefinitionen) (http://w3.org/TR/css3-color)

- Selectors (Selektoren) (http://w3.org/TR/selectors)

- CSS Backgrounds & Borders (Hintergründe und Rahmen) (http://w3.org/TR/css3-background)

- CSS Values and Units (Werte und Maßeinheiten) (http://w3.org/TR/css-values-3)

- CSS Text (Textstile) (http://w3.org/TR/css-text-3)

- Text Decoration (Textausschmückungen) (http://w3.org/TR/css-text-decor-3 CSS)

- Fonts (Schriftstile und -definitionen) (http://w3.org/TR/css3-fontsCSS)

- Basic User Interface (allgemeine Benutzerschnittstelle) (http://w3.org/TR/css3-ui CSS)

Spezifikationen neuer Konzepte (Beispiele)

- CSS Transforms (Umwandlungen, Verzerrungen etc.) (http://w3.org/TR/css-transforms-1)

- Compositing and Blending (Compositing und Übergänge) (http://w3.org/TR/compositing-1)

- Filter Effects (Filter-Effekte) (http://w3.org/TR/filter-effects-1)

- CSS Masking (Masken) (http://w3.org/TR/css-masking-1)

- CSS Flexible Box Layout (Flexbox) (http://w3.org/TR/css-flexbox-1)

- GridLayout (RasterbasiertesLayout) (http://w3.org/TR/css-grid-1CSS)

Selektoren (Einfachselektoren / 1)

```
*          any element / Universal selector

E          an element of type E / Type selector

E.warning  an E element whose class is "warning" / Class selectors

E#myid     an E element with ID equal to "myid" / ID selectors
```

Selektoren (Einfachselektoren / 2)

```
E[foo]        an E element with a "foo" attribute
E[foo="bar"]    an E element whose "foo" attribute value is exactly equal to "bar"
E[foo~="bar"]   an E element whose "foo" attribute value is a list of
                   whitespace-separated values,
                   one of which is exactly equal to "bar"

E[foo^="bar"]   an E element whose "foo" attribute value begins exactly with the string "bar"
E[foo$="bar"]   an E element whose "foo" attribute value ends exactly with the string "bar"
E[foo*="bar"]   an E element whose "foo" attribute value contains the substring "bar"
E[foo|="en"]    an E element whose "foo" attribute has a hyphen-separated list of values
                   beginning (from the left) with "en"
```

Selektoren (Combinators)

```
E F    an F element descendant of an E element / Descendant combinator

E > F  an F element child of an E element / Child combinator

E + F  an F element immediately preceded by an E element / Adjacent sibling combinator

E ~ F  an F element preceded by an E element / General sibling combinator
```

Selektoren (Structural pseudo-classes)

```
E:root                  an E element, root of the document
E:nth-child(n)          an E element, the n-th child of its parent
E:nth-last-child(n)     an E element, the n-th child of its parent, counting from the last one
E:nth-of-type(n)        an E element, the n-th sibling of its type
E:nth-last-of-type(n)   an E element, the n-th sibling of its type, counting from the last one
E:first-child           an E element, first child of its parent
E:last-child            an E element, last child of its parent
E:first-of-type         an E element, first sibling of its type
E:last-of-type          an E element, last sibling of its type
E:only-child            an E element, only child of its parent
E:only-of-type          an E element, only sibling of its type
E:empty                 an E element that has no children (including text nodes)
```

Selektoren (Pseudo-classes)

```
E:link

E:visited    an E element being the source anchor of a hyperlink

             of which the target is not yet visited (:link) or already visited (:visited)

E:active // E:hover

E:focus      an E element during certain user actions

E:target     an E element being the target of the referring URI

E:lang(fr)   an element of type E in language "fr"

E:enabled

E:disabled   a user interface element E which is enabled or disabled

E:checked    a user interface element E which is checked (for instance a radio-button or checkbox)

E:not(s)     an E element that does not match simple selector s
```

Selektoren (Pseudo-elements)

```
E::first-line    the first formatted line of an E element

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

E::before        generated content before an E element

E::after         generated content after an E element
```

Einfache Beispiele

- Quelle: Lea Verou, "CSS Secrets"

  - Einfügen von Zeilenumbrüchen (http://play.csssecrets.io/line-breaks)

  - Vertikale Zentrierung 1 (http://play.csssecrets.io/vertical-centering-abs)

  - Vertikale Zentrierung 2 (http://play.csssecrets.io/vertical-centering-vh)

  - Vertikale Zentrierung 3 (http://play.csssecrets.io/vertical-centering)

- Quelle: Philip Walton

  - Verwendung Flexbox-Layout (https://philipwalton.github.io/solved-by-flexbox/)