CSS3

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CSS3 : Introduction

- **The Cascading Style Sheets version 3 is not a specification or a standard,**
- **Its a bunch of browser manufacture prefixes which could not make their way in to CSS2.**
- **The features are divided into several separate documents called "modules"**
- **The earliest CSS 3 drafts were published in June 1999**
- **CSSWG is driving the implementation on browsers.**

CSS3 Benefits

Addresses loads of designer required features. Loads faster compared to canvas animation

CSS3 Selectors Module

A Common sense approach

new selectors target elements more precisely
without adding classes or ids

New Selectors in CSS3

:first-child
:last-child
:nth-child(#)
:nth-child(odd/even)
:nth-child(2n)
:nth-child(3n + 4)
:nth-child(3n - 4)
:nth-of-type()
:nth-of-type(odd)
:nth-last-child()
:nth-last-of-type()

:first-of-type()
:last-of-type()
:only-child
:only-of-type()
:checked
:enabled
:disabled
::selection

:root
:empty
:not()
> direct child

Box sizing

```
-moz-box-sizing: border-box;
-webkit-box-sizing: border-box;
box-sizing: border-box;
```

Meta Tag | viewport

<meta name=〝viewport〞>
Other attributes
　content : width of the page content
　width : width of the viewport
　device-width : width of the device
　initial-scale : scale ratio
　maximum-scale : how much can the device scale
　user-scalable : can the user scale or not

```html
<meta name="viewport"
   content="width=device-width, initial-scale=1,
   maximum-scale=1">
```

CSS3 | @font-face

CSS3 @font-face

```
@font-face {
    font-family: Myfont;
    src: local( "locally available name (when cached
        by browser)"),
    url(font name.ttf);
    font-weight: bold;
}
```

CSS3 Transform

```
#box {
    transform:skew;
}
```

skew | scale | rotate | translate

skew(45deg) ;

scale(.5,.5);

rotate(45deg)

translate(10px, 10px) left offset, top offset

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CSS3 | @keyframes

CSS3 @keyframes

```
@keyframes keyFrameName{
    from{
        prop: val;
    }
    to{
        prop: val;
    }
}
selector{
animation-duration: 3s;
animation-name: keyFrameName;
}
```

@keyframes

```css
@keyframes keyFrameName{
    10%{
    }
    50%{
    }
    100%{
    }
}
selector{
animation-duration: 3s;
animation-name: keyFrameName;
}
```

CSS3 Animation props

animation-iteration-count: infinite / 3 (default =1)

----

animation-duration: 6s / 120ms

----

animation-direction: normal / reverse / alternate / alternate-reverse

----

animation-delay: 3s

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animation-timing-function: ease / ease-in / ease-out / ease-in-out /
    linear /

CSS3 Animation props

animation-delay
    delay between the time the page is loaded and animation.
animation-direction
    alternate direction on each run through the sequence or reset to the
        start point and repeat itself.
animation-duration
    time that an animation should take to complete one cycle.
animation-iteration-count
    number of times the animation should repeat;
animation-name
    Specifies the name of the @keyframes
animation-play-state
    Lets you pause and resume the animation sequence.
animation-timing-function
    how the animation transitions through keyframes, by establishing
        acceleration curves.
animation-fill-mode
    values applied by the animation before and after it is executing.

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