



HTML/CSS

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HTML

<http://caniuse.com/>

HTML

1. Review, basic tags
2. XHTML vs. HTML5

HTML - basic tags

`<hX>`

`<p>`

`- / `

``

`<dl><dt><dd>`

``

`<form>`

XHTML vs. HTML5

```
<div class="header">  
  <ul class="nav">
```

```
<div class="content">
```

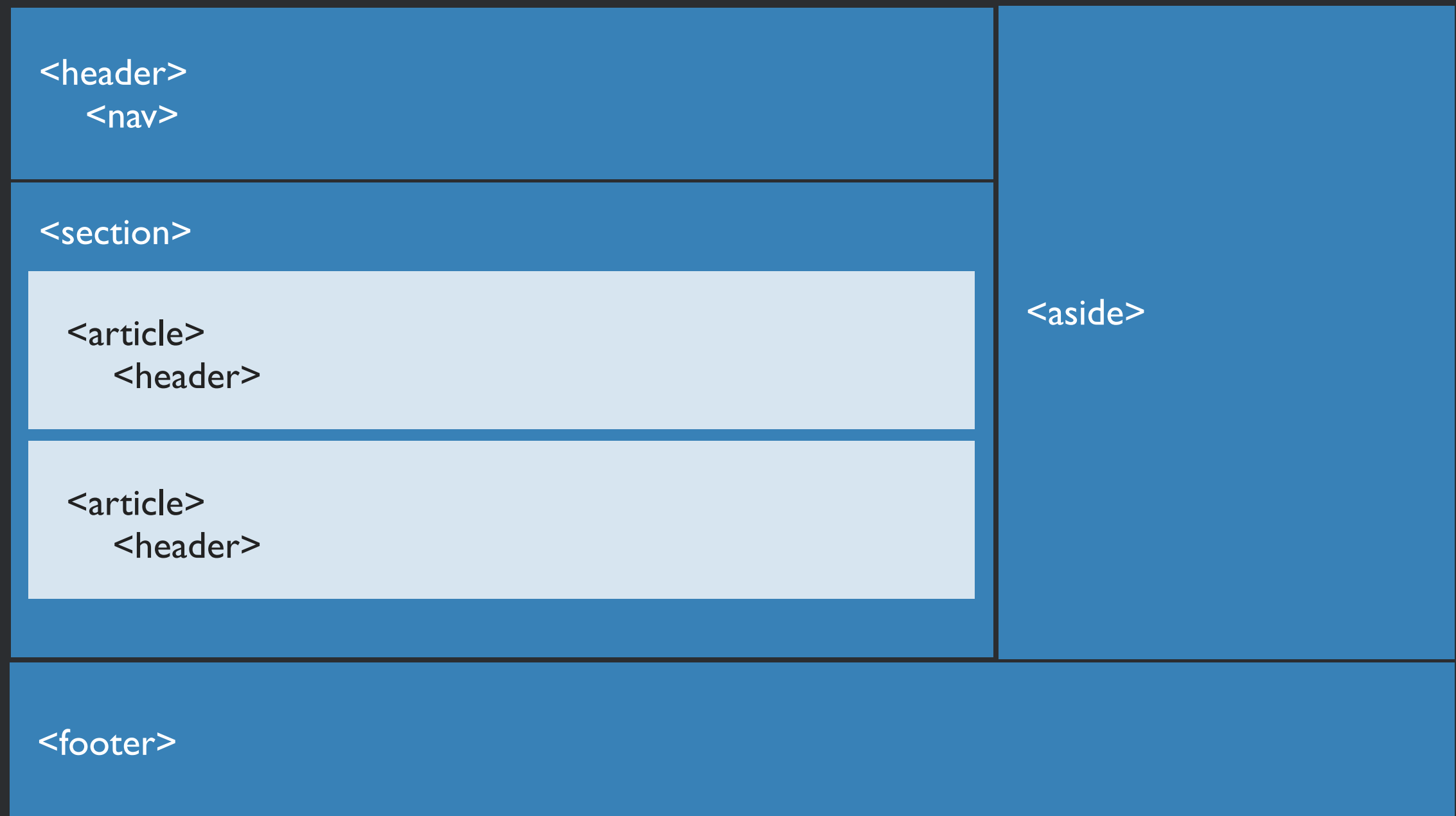
```
  <div class="article">
```

```
  <div class="article">
```

```
<div class="sidebar">
```

```
<div class="footer">
```

XHTML vs. HTML5



XHTML vs. HTML5

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML  
1.0 Transitional//EN" "http://www.w3.org/  
TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

VS

```
<!DOCTYPE html>
```


The background is a dark, textured image featuring a cloudy sky. A thin, horizontal white line is positioned near the top center of the frame. The text 'CSS' is centered in the middle of the image.

CSS

CSS

1. Reset CSS
2. Sintaxis
3. Layout (floats/display/positions)
4. Decoration
5. Pseudoelements
6. Animations, Transitions and Transforms
7. SASS

Reset CSS

By default all html's elements has some properties (margins, paddings, size, line-height, etc..). When we use a reset.css we put all this values to Zero

html5 reset

<http://www.cssreset.com/scripts/html5-doctor-css-reset-stylesheet/>

Eric Meyer reset 2.0

<http://meyerweb.com/eric/tools/css/reset/>

CSS - sintaxis

```
margin-top: 20px;  
margin-bottom: 20px;  
margin-left: 20px;  
margin-right: 20px;
```

=

```
margin: 20px;
```

```
margin-top: 0;  
margin-bottom: 0;  
margin-left: 20px;  
margin-right: 20;
```

=

```
margin: 20px 0;
```

CSS - sintaxis

```
font-family: Arial;  
font-size: 20px;  
line-height: 22px;  
font-weight: bold;
```

=

```
font: bold 20px/22px Arial
```

CSS - sintaxis

```
<div class="class1">
```

```
<div class="class1 class2 class3">
```

 various class

```
<div id="id1">
```

 only one element with the same ID

```
<div id="id1" class="class1 class2 class3">
```

CSS - sintaxis

Vendors

Most often, though, the extensions are used to release and test browser features that have been developed in the preparation of W3C drafts that have not yet reached

Candidate

Recommendation
status

```
-moz-box-sizing: ...  
-webkit-box-sizing: ...  
box-sizing: ...
```

CSS - layout



CSS - layout

```
/* apply a natural box layout model to all elements  
(if supporting <IE8, use a polyfill: https://github.com/Schepp/box-sizing-polyfill) */
```

```
* {  
    -moz-box-sizing: border-box;  
    -webkit-box-sizing: border-box;  
    box-sizing: border-box;  
}
```

CSS - layout

display inline; display inline; display inline;

display: inline-block;

display: inline-block;

display: inline-block;

display: block;

CSS - layout

disappears the
element

```
display: none
```

the element is
hidden, but maintains
the space

```
visibility: hidden
```

CSS - layout

When we use inline-block, we can manage the vertical-align. Top align is by default

```
vertical-align: top
```

```
vertical-align: middle
```

```
vertical-align: bottom
```

CSS - layout

```
<ul>  
  <li>item 1</li>  
  <li>item 2</li>  
  <li>item 3</li>  
</ul>
```

= item 1 item2 item 3

CSS - layout

`float:left`

`float:right`

CSS - layout

`float:left`

`float:right`

`float:left`

`width:auto;`
`overflow: hidden`

`float:right`

`float:left`

`class="clearfix"`
`class="cf"`

`float:right`

CSS - layout

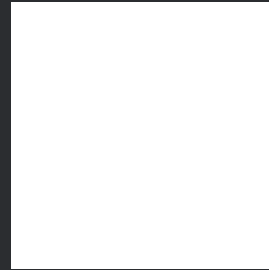
class="cf"

Your new best friend

```
.cf:before, .cf:after{  
  content: " ";  
  display: table;  
}  
.cf:after {  
  clear: both;  
}
```


CSS - layout

With this structure
we can do 70%
websites.
display:table, works
like a table



Lorem ipsum dolor sit amet,
consectetuer adipiscing elit, sed
diam nonummy nibh euismod
tincidunt ut laoreet dolore magna
aliquam erat volutpat. Ut wisi enim
ad minim veniam, quis nostrud

```
<div class="item">  
  <div class="itm-media">  
  </div>  
  <div class="itm-body">  
  </div>  
</div>
```

```
.item { width: auto; overflow: hidden; }  
.itm-media { float: left; display: inline; }  
.itm-body { display: table; }
```

CSS - layout

Position			
relative	absolute	fixed	static (default)

sticky (experimental)

CSS - layout

<div class="container">

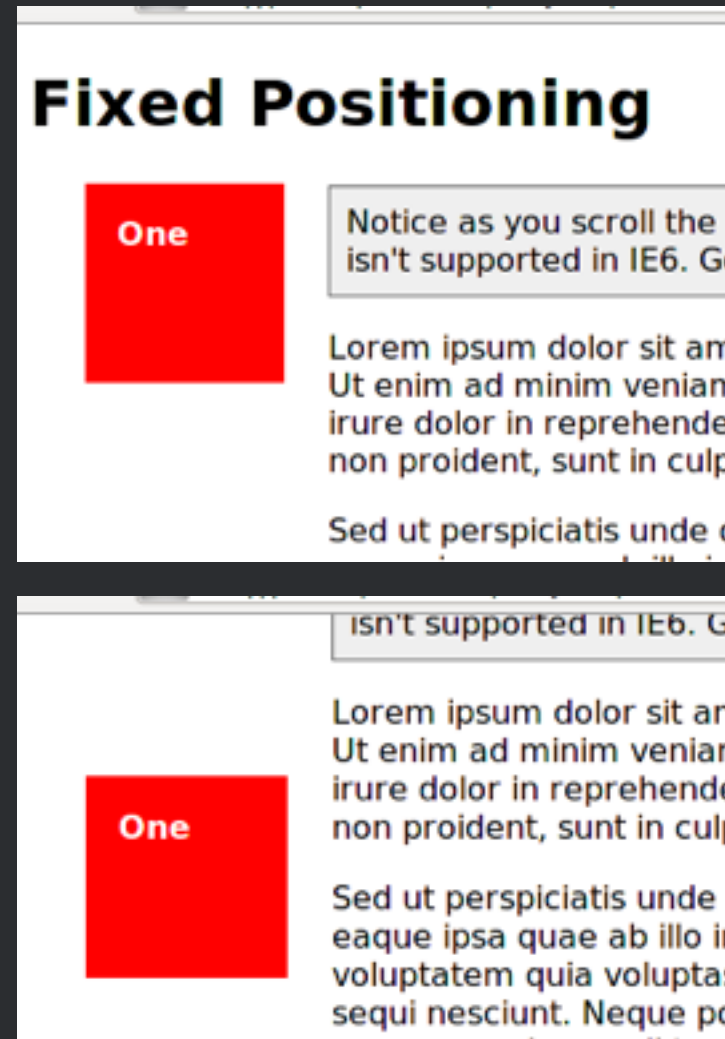
<div class="mod">

```
.container{  
  position:relative  
}
```

```
.mod{  
  position:absolute  
  right:10px;  
  bottom:10px  
}
```

CSS - layout

position: fixed



CSS - decoration

color

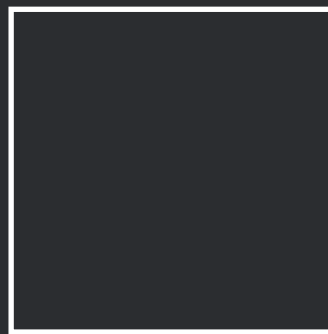
`rgb(56, 129, 183)`

`#3881b8`

`rgba(56, 129, 183, .5)`

CSS - decoration

border



```
border:1px solid rgb(255, 255, 255)
```

```
border-left:
```

```
border-right:
```

```
border-bottom:
```

```
border-top:
```

CSS - decoration

border



```
border-radius: valor // border-radius: 50%  
border-top-right-radius: 0;  
border-top-left-radius: 0;  
border-bottom-right-radius: 0;  
border-bottom-left-radius: 0;
```

CSS - decoration

text-shadow

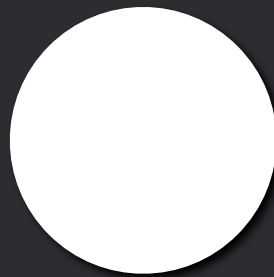
Concept of text shadow

```
text-shadow: x y blur color
```

```
text-shadow: 1px 1px 0px rgb(0, 0, 0)
```


CSS - decoration

box-shadow



```
box-shadow: inset x y blur color
```

```
box-shadow: 2px 2px 0px rgb(0, 0, 0)
```

CSS - decoration

background

```
background-color: color;  
background-size: sizex sizey;  
background-size: cover;  
background-image: url(ruta);  
background-repeat: repeat/no-repeat/repeat-x/repeat-y;  
background: color url(ruta) repeat/no-repeat posx posy
```

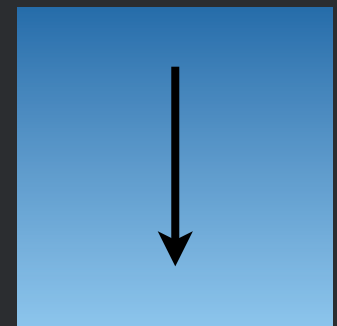
CSS - decoration

background

```
background: #1e5799; /* Old browsers */
```

```
background: linear-gradient(to bottom, #1e5799  
0%, #7db9e8 100%);
```

```
filter:  
progid:DXImageTransform.Microsoft.gradient(  
startColorstr='#1e5799',  
endColorstr='#7db9e8', GradientType=0 ); /* IE6-9 */
```



<http://www.colorzilla.com/gradient-editor/>

CSS - decoration

font

```
font: bold-normal size/line-height fontname
```

```
color: color
```

```
text-shadow: x y blur color
```

CSS - decoration

font-face (.eot, .svg, .ttf, .woff)

```
@font-face {  
  font-family: 'open_sansbold';  
  src: url('opensans-bold-webfont.eot');  
  src: url('opensans-bold-webfont.eot?#iefix')  
  format('embedded-opentype'),  
       url('opensans-bold-webfont.woff') format('woff'),  
       url('opensans-bold-webfont.ttf') format('truetype'),  
       url('opensans-bold-webfont.svg#open_sansbold')  
  format('svg');  
  font-weight: normal;  
  font-style: normal;  
}
```

<http://www.fontsquirrel.com/tools/webfont-generator>

CSS - pseudoelements

`:first-child`

`:last-child`

`:first-letter`

`:focus`

`:nth-child(number, odd/even)`

`:before`

`:after`



CSS - pseudoelements

`:first-child`

`:last-child`

`:first-letter`

`:focus`

`:nth-child(number, odd/even)`

`:before`

`:after`

CSS - pseudoelements

:first-child

```
<ul class="lst-nav">  
  <li>item1</li> ←  
  <li>item2</li>  
  <li>item3</li>  
  <li>item4</li>  
</ul>
```

```
.lst-nav li:first-child {}
```

CSS - pseudoelements

:last-child

```
<ul class="lst-nav">  
  <li>item1</li>  
  <li>item2</li>  
  <li>item3</li>  
  <li>item4</li> ←  
</ul>
```

```
.lst-nav li:last-child {}
```

CSS - pseudoelements

:nth-child(number,
odd/even)

```
<ul class="lst-nav">  
  <li>item1</li>  
  <li>item2</li>  
  <li>item3</li>  
  <li>item4</li>  
</ul>
```



```
.lst-nav li:nth-child(odd) {}
```

CSS - pseudoelements

:nth-child(number,
odd/even)

```
<ul class="lst-nav">  
  <li>item1</li>  
  <li>item2</li>  
  <li>item3</li>  
  <li>item4</li>  
</ul>
```



```
.lst-nav li:nth-child(2) {}
```

CSS - pseudoelements



:first-letter

```
<p class="txt">Lorem  
ipsum dolor sit amet,  
consectetur adipiscing  
elit, sed diam nonummy  
nibh euismod tincidunt ut  
laoreet dfaeilisi. Nam  
l</p>
```

```
.txt:first-letter {}
```

CSS - pseudoelements

:before

• item 1 • item 2 • item 3

```
<ul class="lst-nav">
  <li>item1</li>
  <li>item2</li>
  <li>item3</li>
  <li>item4</li>
</ul>
```

```
.lst-nav li:before {
  content: "•";
  padding-left: 8px;
  padding-right: 8px;
}
```

CSS - pseudoelements

:before

item 1 • item 2 • item 3

```
.lst-nav li:before {  
  content: "•";  
  padding-left: 8px;  
  padding-right: 8px;  
}
```

```
.lst-nav  
li:before:first-child {  
  ?  
}
```

CSS - pseudoelements

:after - :before



```
<div class="tooltip">  
</div>
```


CSS - pseudoelements

:after - :before



```
<div class="tooltip">  
</div>
```

<http://codepen.io/chriscoyier/pen/lotjh>

CSS - animations, transitions and transforms

`animation-delay`

`animation-direction`

`animation-duration`

`animation-iteration-count`

`animation-name`

`animation-play-state`

`animation-timing-function`

`animation-fill-mode`

CSS - animations, transitions and transforms

```
@-webkit-keyframes example {  
  from { transform: scale(2.0); }  
  to   { transform: scale(1.0); }  
}  
  
/* This is the element that we apply the animation to. */  
div {  
  -webkit-animation-name: example;  
  -webkit-animation-duration: 1s;  
  -webkit-animation-timing-function: ease; /* ease is the default */  
  -webkit-animation-delay: 1s;           /* 0 is the default */  
  -webkit-animation-iteration-count: 2;   /* 1 is the default */  
  -webkit-animation-direction: alternate; /* normal is the default */  
}
```

CSS - animations, transitions and transforms

```
.example {  
    transition: [transition-property]  
[transition-duration] [transition-timing-  
function] [transition-delay];  
}
```

```
div {  
    transition: background-color 0.5s ease 2s;  
    background-color: red;  
}  
div:hover {  
    background-color: green;  
}
```

CSS - animations, transitions and transforms

2D

```
transform:skew(35deg);
```

```
transform:scale(1,0.5);
```

```
transform:rotate(45deg);
```

```
transform:translate(10px, 20px);
```

```
transform:skew(30deg) scale(1.1,1.1)  
rotate(40deg) translate(10px, 20px);
```

CSS - animations, transitions and transforms

3D

```
perspective: 800px;  
perspective-origin: 50% 100px;
```

```
transform: rotateX(180deg);
```

```
transform: rotateY(180deg);
```

```
transform: rotateZ(180deg);
```

CSS - Sass

1. Install
2. Variables
3. Nesting
4. Mixins

CSS - Sass

<http://sass-lang.com/>

CSS - Sass

Variables

```
$font-stack: Helvetica,  
sans-serif;  
$primary-color: #333;  
  
body {  
    font: 100% $font-stack;  
    color: $primary-color;  
}
```

CSS - Sass

Nesting

```
nav {  
  ul {  
    margin: 0;  
    padding: 0;  
    list-style: none;  
  }  
  li { display: inline-block; }  
  a {  
    display: block;  
    padding: 6px 12px;  
    text-decoration: none;  
  }  
}
```

CSS - Sass

Mixings

```
@mixin border-radius($radius) {  
    -webkit-border-radius: $radius;  
    -moz-border-radius: $radius;  
    -ms-border-radius: $radius;  
    -o-border-radius: $radius;  
    border-radius: $radius;  
}  
  
.box { @include border-radius(10px); }
```