Tools, HTML5 and CSS3

Recap

- Server-Client (Continuation)
- More on selectors (Css)
- Box model
- Position property
- Steal a website (live coding)

Agenda for today

- Problems with the project?
- HTML5 elements
- CSS1 CSS3
- Bootstrap (Live coding)

HTML5 elements

```
<!DOCTYPE html>
<header>
    <nay> Home Link1 Link2 Link3 </nay>
</header>
<main>
    <article>.....</article>
</main>
<footer>.....</footer>
```

HTML5 elements

```
<video width="480" controls poster="https://archive.org/download/WebmVp8Vorbis/webmvp8.gif" >
  <source src="https://archive.org/download/WebmVp8Vorbis/webmvp8 512kb.mp4" type="video/mp4">
  <source src="https://archive.org/download/WebmVp8Vorbis/webmvp8.ogv" type="video/ogg">
 <source src="https://archive.org/download/WebmVp8Vorbis/webmvp8.webm" type="video/webm">
 Your browser doesn't support HTML5 video tag.
</video>
<canvas></canvas>
                                Let's check this one out!
<audio></audio>
```

HTML5 and the semantic web

- Examples of non-semantic elements: <div> and Tells nothing about its content.
- Examples of semantic elements: <form>, , and Clearly defines its content.
- HTML5 has 2 main contributions
 - The enriching of the semantic content of documents
 - Scripting application programming interfaces (APIs) that can be used with JavaScript

CSS1

```
div {

float: left;

width: 200px;

height: 150px;
```

CSS2 - inline-block

```
div {
    float: left;
    width: 200px;
    height: 150px;
}
```

```
This is the new way
                          Let's try it out
div {
   display: inline-block;
  width: 200px;
   height: 150px;
```

This is just cool!

CSS3 - box-shadow

```
#link {
  background: #F38514;
  text-decoration: none;
  box-shadow: 1px 3px 2px 1px #999;
           CSS3: h-shadow, v-shadow, blur, spread
           Let's try it out!
```

```
#link:hover {
   background: #D2700C;
   cursor: pointer;
}
```

CSS3 - image background and gradients

```
#paper-bg {
    background-image: url(paper.gif);
    background-repeat: repeat;
#gradient {
    background: linear-gradient(red, yellow);
```





CSS3 - more gradients

```
background: linear-gradient(red, yellow); /* default */
background: linear-gradient(to right, red , yellow); /* left to right */
background: linear-gradient(to bottom right, red, yellow); /* diagonal */
background: linear-gradient(red, yellow, green); /* multiple colors */
background: radial-gradient(circle, red, yellow, green); /* Circle */
```

CSS3 - transforms

CSS3 - transforms

```
transform: translate(50px,100px);
transform: translateX(100px);
transform: translateY(100px);
transform: rotate(20deg);
transform: scale(2,3);
```

What do you think these do? Let's see these!

CSS3 - transitions

```
div {

background: #F38514;

width: 300px;

width: 100px;

background: purple;

transition: width 2s;
```

CSS3 - transforms with transitions



Enter the Bootstrap



https://bootstrapbay.com/blog/built-with-bootstrap/

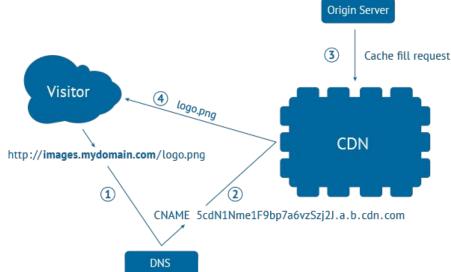
Bootstrap - how to get it

- Download (CSS, JavaScript) ~> Link to it it in your html
- Use a CDN (Prefered)

```
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css"</pre>
integrity="sha384-1q8mTJOASx8j1Au+a5WDVnPi2lkFfwwEAa8hDDdjZlpLegxhjVME1fgjWPGmkzs7" crossorigin="
anonymous">
<!-- Optional theme -->
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap-theme.min.css"</pre>
integrity="sha384-fLW2N011MqjakBkx31/M9EahuwpSfeNvV63J5ezn3uZzapT0u7EYsXMjQV+0En5r" crossorigin="
anonymous">
<!-- Latest compiled and minified JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js" integrity="sha384-</pre>
OmSbJDEHialfmuBBQP6A4Qrprq5OVfW37PRR3j5ELqxss1yVqOtnepnHVP9aJ7xS" crossorigin="anonymous"></script>
```

CDNs

Wikipedia: A content delivery network or content distribution network (CDN) is a globally distributed network of proxy servers deployed in multipledata centers. The goal of a CDN is to serve content to end-users with high availability and high performance.



Bootstrap - how to use it

Let's stop talking and start chalking!

To next lecture...

- Try out some bootstrap in your website (not mandatory)
- Watch this <u>video</u> (Javascript for beginners 1, 5 h)

Thanks and good luck!