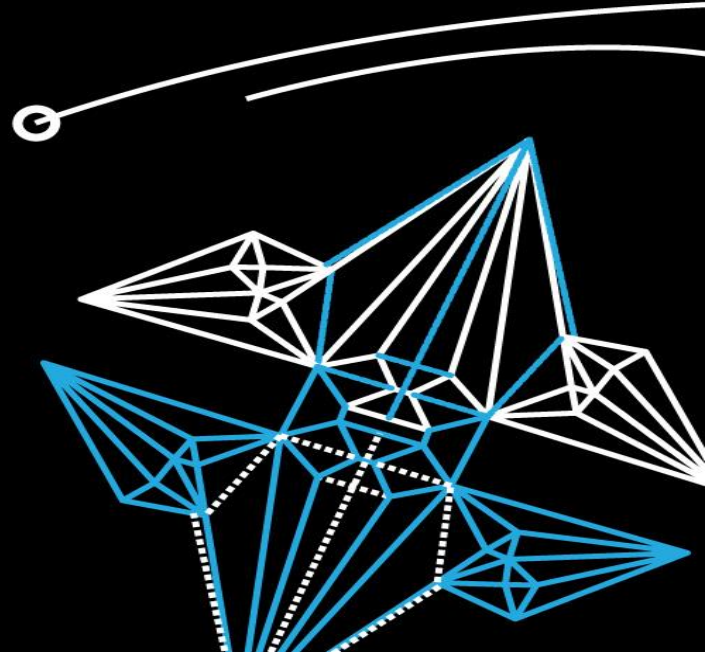
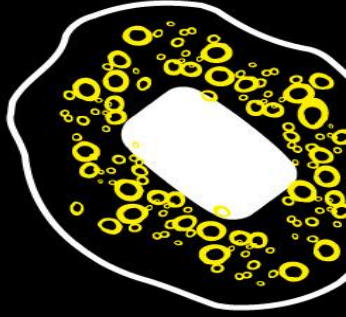


UNIVERSITY OF TWENTE.

WEB TECHNOLOGY

TUTORIAL SESSION #3 FOR "WE CREATE IDENTITY"
HTML AND CSS

Module 1 - We Create Identity

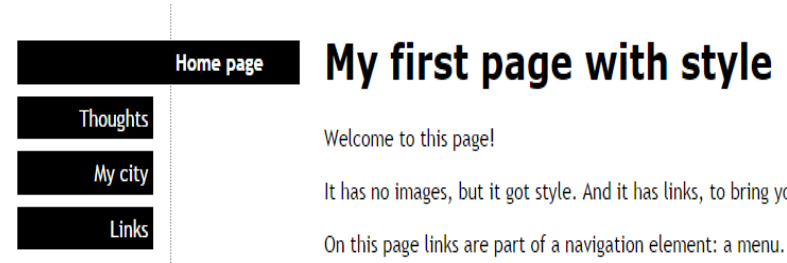


CSS: SELECTION OF ELEMENTS

SELECTOR { *STYLERULE*; ... }

w3schools: [selectors](#)

- By element: `nav ul li`
- By id: `#`
 - For single, unique elements
- By class: `.`
 - For group of elements



```
<nav>
<ul>
  <li><a href="#page1">Home page</a>

<div class="content">
  <div id="page1"><!-- page 1 -->
  ...
</div>

<div id="page3"><!-- page 3 -->
  <h1>My city</h1>
```

html

```
nav ul li {
  background: black;
  color: white;
  text-align:right;
}

div.content div {
  padding: 20px;
}

#page3 {
  background-color: #e0ebeb;
}
```

CSS

CSS: SELECTION OF ELEMENTS

`SELECTOR { STYLERULE; ... }`

- Visible menu-selection using CSS

li.current | 265,58 x 28,25

Home page

Thoughts

My city

Links

My first page with

Inspect Ctrl+Shift+I

It has no images, but it got style. And it has

On this page links are part of a navigation el

Made on April 2011, by myself

Selection by class

Elements Console Sources Network Timeline Profiles Applicatio

```
<!DOCTYPE html>
<html>
  >#shadow-root (open)
  ><head>...</head>
  ><body translate="no">
    ><nav>
      ><ul>
        ><li class="current" href="#tab1">Home page</li>
        ><li>...</li>
      ></ul>
    ></nav>
  ></body>
</html>
```

codepen.io/vanslooten/pen/gpMQbM

```
nav li.current {
  width: 16em;
  text-align:left;
}

nav li.current a {
  margin-left: 9em;
  font-weight: bold;
}
```

LAYOUT



- Design (sketch!)
- Build a layout using HTML, CSS
- For testing: `background-color: yellow;`
- Examples: 
- Grid/Flexbox
- **Best way to learn:** learnlayout.com, [w3schools](https://www.w3schools.com), [Codecademy](https://www.codecademy.com)

w3schools: [layout](#), [div element](#), [positioning](#), [grid](#), [flexbox](#)

FLEX LAYOUT

w3schools: [layout](#), [flexbox](#)

```
<div class="content">
  <h1>My title</h1>
  <p>everything in content will be centered</p>
</div>

<!-- this is not in content, so it will not be centered: -->

<a href="https://codepen.io/vanslooten/pen/zJoLwY">More
advanced example centering both horizontally and
vertically</a>.
```

```
/* everything in content will be centered: */
.content {
  display: flex;
  flex-direction: column;
}

.content>* {
  margin: 0 auto;
}
```

select only direct
children of **.content**

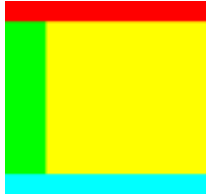
[w3schools.com/cssref/sel_element_gt.asp](https://www.w3schools.com/cssref/sel_element_gt.asp)



[More advanced example centering both horizontally and vertically.](https://codepen.io/vanslooten/pen/LYLJgMP)

<https://codepen.io/vanslooten/pen/LYLJgMP>

FLEX LAYOUT

w3schools: [layout](#), [flexbox](#)

```

<header>
  <h2>Cities</h2>
</header>

<section>
  <nav>
    <ul>
      <li><a href="#">London</a></li>
      <li><a href="#">Paris</a></li>
      <li><a href="#">Tokyo</a></li>
    </ul>
  </nav>

  <article>
    <h1>London</h1>
    <p>London is ...</p>
  </article>
</section>

<footer>
  <p>Footer</p>
</footer>

```



Try it Yourself »

```

header {
  background-color: red;
  text-align: center;
}

/* Container for flexboxes */
section {
  display: flex;
}

/* Style the navigation menu */
nav {
  flex: 1; /* use 1/4 of space */
  background: lightgreen;
}

/* Style the content */
article {
  flex: 3; /* use 3/4 of space */
}

```

CSS: CASCADING...

- Have a nice template?
- How to change it with your own style?

```
<!DOCTYPE html>
<html>
<title>W3.CSS Template</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">
<link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Raleway">
<link rel="stylesheet" href="mystyle.css">
```

Stylesheets of template,
keep these as they are
(even if you downloaded it, do
not change it!)

Your stylesheet

- In this way, your stylesheet (`mystyle.css`) will get **higher precedence** than the W3.CSS stylesheet
 - You can over-rule styles in your stylesheet
- Use inspect-function of browser to find things you want to change

RESPONSIVE WEBSITES



- Set the Viewport
- Responsive layout
- Responsive images
- [Use media queries](#)
- Design: Mobile First!

“Responsive Web Design is about using HTML and CSS to automatically resize, hide, shrink, or enlarge, a website, to make it look good on all devices (desktops, tablets, and phones)”

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
div.example {  
    font-size: 1em;  
}  
  
/* On large screen, set the font-size of <div> to 2em */  
@media only screen and (min-width: 601px) {  
    div.example {  
        font-size: 2em;  
    }  
}
```


W3.CSS TEMPLATES

w3schools:
[W3.CSS templates](https://www.w3schools.com/w3css/w3css_templates.asp)

- Walk-through of using a W3.CSS template & test with w3.validator service:

The screenshot shows the W3.CSS Templates page on w3schools.com. The page features a navigation menu with 'W3.CSS' selected, a list of template categories on the left, and a main content area with 'W3.CSS Templates' and 'W3.CSS Website Templates' sections. A 'Band Template' is visible at the bottom. A yellow banner at the bottom right contains the URL youtu.be/C4mjFbOpr2M.

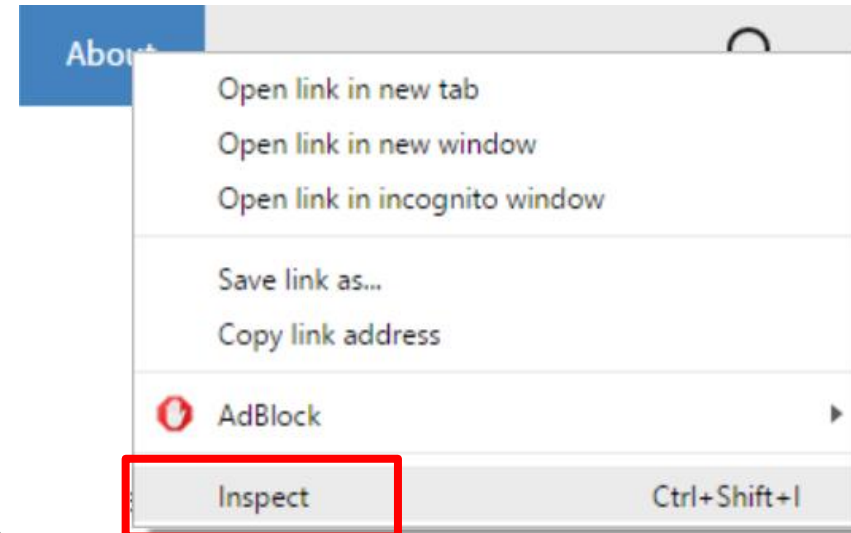
TESTING WEBPAGES

Tools:

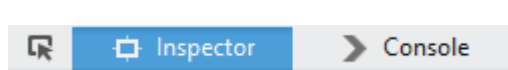
- validator.w3.org
- ipinfo.info/netrenderer
- screen-resolution.com

Browser:

- Right-click, **Inspect**
- Web developer tools (access via menu, or F12)



 > More Tools > Developer tools (CTRL+Shift+I)



Console: show **errors**, logs etc.