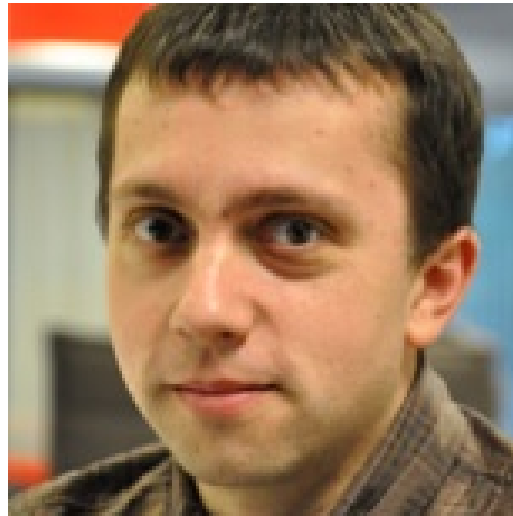


# Practical HTML5

## Creating a Site Using HTML5



Gill Cleeren

@gillcleeren

# Outline

The end result of the course

HTML5 overview

Building the skeleton

# Target of This Module

We'll have an **understanding** of what **HTML5** is

We'll have **created** a couple of **pages** for our site



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# How Will You Learn in This Course?

---

# What We Will Be Building

- Joe's Coffee Store
  - Home page
  - All available coffee overview
  - Coffee detail page
  - Add to cart/Shopping cart
  - Checkout page



# Which Features Will We Use?

New  
elements and  
attributes

New form  
controls

Support for  
CSS3

Audio and  
video  
integration

Graphics  
using Canvas

SVG

Web storage

Drag and  
drop

Geolocation



# Demo: Taking a Look at the Completed Site

# HTML





# Hello HTML5!



New version



No need for  
plugins



Cross platform



Designed by W3C  
and WHATWG

# HTML5 Has Many New Features



# HTML5 Has Many New Features

- Not really part of HTML5 but **considered as part of it:**
  - Web SQL database
  - Indexed Database API
  - File API
  - File Writer
  - Background workers
  - Geolocation
  - Web sockets
  - ...

---

# Building the Skeleton

---

# Building the Skeleton

```
<!DOCTYPE html>
<html lang="en" xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta charset="utf-8" />
  <title>Joe's Coffee store</title>
  <script src="~/Scripts/jquery.min.js"></script>
  <link href="styles.css" rel="stylesheet" type="text/css" />
</head>
<body>
  Content goes here
</body>
</html>
```

# Updating to HTML5

## In HTML4:

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"  
"http://www.w3.org/TR/html4/strict.dtd">
```

## In HTML5:

```
<!DOCTYPE html>  
<html>  
  <head>  
    <meta charset="UTF-8">  
    <title>Joe's coffee store</title>  
  </head>  
  <body>  
  
    ...  
  </body>  
</html>
```

# Elements We Had in HTML Before

- `<doctype>`
- `<a>`
- `<img>`
- `<p>` (paragraph)
- `<table>`
- `<div>` (division)
- `<span>`
- `<ul>` & `<li>`
- `<object>`
- `<form>`
- `<input type="xyz">`
- `<font>`
- `<span>`
- ...

*A full list is available at  
<http://www.w3schools.com/tags/default.asp>*

A div is just a div...



# New Semantic Elements

Article

Header

Footer

Section

Address

Aside

Figure

Figcaption

Summary and  
Details

Nav

Audio and Video

Canvas

# Header and Article

```
<article>
  <header>
    <h1>Joe's Coffee Store official opening</h1>
  </header>
  <p>On August 15 2014, Joe's Coffee Store officially opened!</p>
</article>
```

## **Joe's Coffee Store official opening**

On August 15 2014, Joe's Coffee Store officially opened!

# Footer

```
<footer>  
  <p>Post written by: Joe</p>  
  <p>Contact Joe via: <a href="mailto:joe@joescoffeestore.com">  
    joe@joescoffeestore.com</a>.</p>  
</footer>
```

Post written by: Joe

Contact Joe via: [joe@joecoffeestore.com](mailto:joe@joecoffeestore.com).

# Section

```
<section>
  <h1>Kenia Blend</h1>
  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
</section>
<section>
  <h1>Willow Blend</h1>
  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>
</section>
```

## **Kenia Blend**

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

## **Willow Blend**

Lorem ipsum dolor sit amet, consectetur adipiscing elit.

# Address

```
<address>  
  Written by <a href="mailto:joe@joescoffeestore.com">Joe</a>.<br>  
  Visit us at:<br>  
  New Blend Street<br>  
  12345 Coffeeland<br>  
  Belgium  
</address>
```

*Written by [Joe](#).  
Visit us at:  
New Blend Street  
12345 Coffeeland  
Belgium*

# Aside

```
<article>
  <header> <h1>Coffee makes the world go round</h1> </header>
  <p>Lorem ipsum dolor sit amet... </p>
  <aside>
    <q>Did you know that daily, 2.25B coffees are consumed?.</q>
  </aside>
  <p>Maecenas odio ipsum, ... </p>
</article>
```

## Coffee makes the world go round

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam at pulvinar nibh. Nam porttitor tortor vel dui consectetur sollicitudin vel vel est. Curabitur sagittis diam a vulputate iaculis. Donec tellus purus, congue sit amet facilisis cursus, blandit sit amet ligula. Nam id elit congue, ornare ligula nec, fringilla lacus.

‘Did you know that daily, 2.25B coffees are consumed?.’

Maecenas odio ipsum, egestas vitae nunc posuere, adipiscing gravida eros. Integer ac est justo. Cras sapien velit, ornare ac turpis vitae, sodales imperdiet tellus.

# Figure and Figcaption

```
<p>A cup of coffee is the start for the day for many of us.</p>
```

```
<figure>
```

```
  
```

```
  <figcaption>Fig.1 - A fresh cup.</figcaption>
```

```
</figure>
```

A cup of coffee is the start for the day for many of us.



Fig.1 - A fresh cup.

# Summary and Details

```
<details>
```

```
<summary>What is Arabica Coffee.</summary>
```

```
<p>Coffee arabica is a species of Coffee originally </p>
```

```
</details>
```

*Doesn't work in IE and Firefox!*

▼ What is Arabica Coffee.

Coffea arabica is a species of Coffea originally indigenous to the mountains of the southwestern highlands of Ethiopia. It is also known as the "coffee shrub of Arabia", "mountain coffee" or "arabica coffee".



# New Semantic Elements

- Inline elements
  - Mark
  - Meter
  - Progress
  - Output
  - Time



# Mark

```
<p>Don't forget to order in time  
    <mark>before our holiday closing!</mark>  
today.  
</p>
```

Don't forget to order in time before our holiday closing! today.

# Meter

```
<p>How strong is this coffee?</p>
```

```
<meter value="6" min="0" max="10">6 out of 10</meter>
```

How strong is this coffee?



# Progress

Your order is almost ready... <br/>

We're here at the moment:

```
<progress value="75" max="100">
```

```
</progress>
```

Your order is almost ready...

We're here at the moment:



# Time

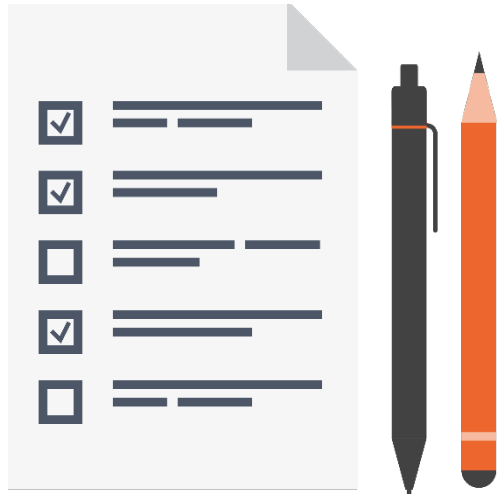
```
<p>Joe's Coffee Store, located in Blend Street,  
is open every day from <time>10:00</time> .</p>  
<p>Sorry but we are closed on <time datetime="2014-12-24">  
Christmas Eve</time>.</p>
```

Joe's Coffee Store, located in Blend Street, is open every day from 10:00 .  
Sorry but we are closed on Christmas Eve.



# Demo: Creating the Pages Using the New Elements

# Summary



HTML5 adds many new features

Many new tags add semantic meaning to elements on the page

Enables us to build cross-platform sites