

# Introduction to HTML

RWD I1

# What is HTML?

- Hyper Text Markup Language (HTML).
- Markup's tells how the content of a webpage should be presented through the use of standardized tags and codes.
- Standards from World Wide WEB Consortium (W3C) – available on [www.w3.org](http://www.w3.org)
- The “recipe” language for webpages.

# Example

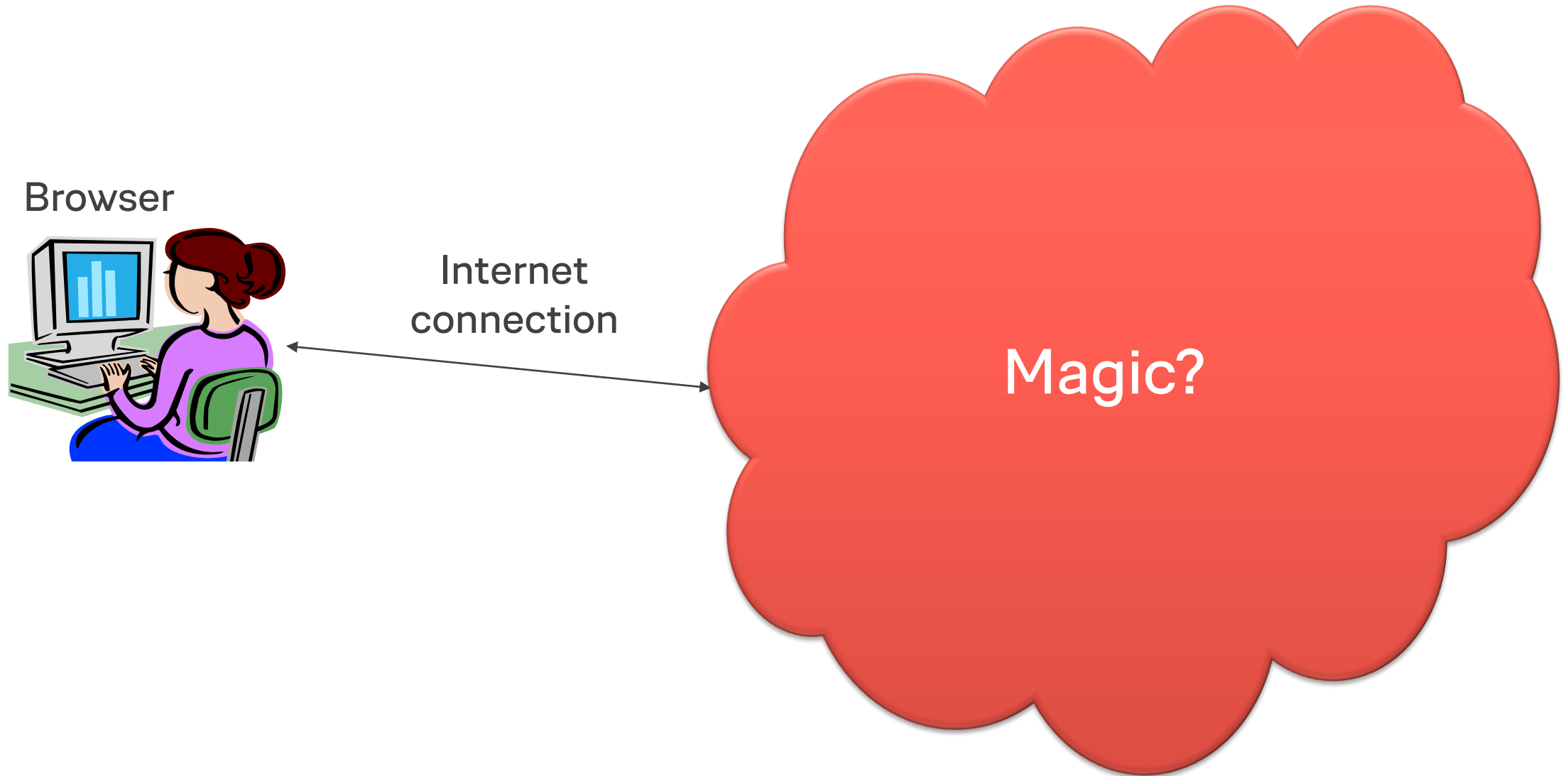
```
<p>Today we have our first <strong>RWD</strong>  
lessons</p>  
<p>And this is some text marked up with <i>HTML</i>.</p>
```

This will look something like this in a browser:

Today we have our first **RWD** lessons

And this is some text marked up with *HTML*.

# A web site



# 2 minute discussion with your neighbor

- Where are HTML documents normally stored?
- What/who will interpret the markups in the text?
- Will it look exactly the same way on all computers/browsers?
- Why/why not?

# Behind the scenes



Computer  
Memory

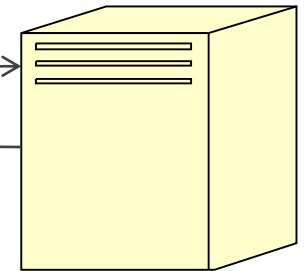
3. Interpret  
HTML



Browser

1. HTTP request

2. HTTP response  
with HTML document  
copy



Webserver  
hosting the HTML  
document

# Many Different Browsers



Internet Explorer



Safari



Chrome




Opera



Firefox

and more...

# HTML-document

- A plain text file (ASCII)
- All editors can be used to edit HTML
  - We use Brackets 
- File extension must be *.html*
- The “front page” of any website is called *index.html*
- A HTML file has a minimum contents that must be there
  - More about this later



# Principles of HTML

## Markup

- *Start tags:* `<h1>`, `<p>`, `<ul>`, `<b>`, `<i>`
- *End tags:* `</h1>`, `</p>`, `</ul>`, `</b>`, `</i>`
- Tags are nested:

`<b><i>This is bold italic</i></b>`



- Not like this:

`<b><i>This is bold italic</b></i>`



- Empty/open tags: `<br>`, `<hr>`

# The Document Body Contents

- Formatted by **structural** tags
  - Headings `<h1>`, `<h2>`, ..., `<h6>`
  - Lists `<ol>`, `<ul>`
  - Tables `<table>`
  - Etc.
- And by **presentation** tags
  - Font-size `<basefont>`
  - Colors `<col>`
  - Etc.

Hint: Start with the structure (structure tags) and then the look (presentation tags)

# Work this way

1. Make a draft in plain text
2. Find the logical elements in the text
3. Mark up the text using HTML elements

# Work this way - comments

```
<!-- This is a comment for the paragraph below -->  
<p> This text wrapped as a paragraph </p>
```

```
<!-- These lines of paragraph are not being instanced by the browser  
because they have been "out-commented"  
<p> Paragraph line 1 </p>  
<p> Paragraph line 2 </p>  
-->
```

**Always add comments to your code!**

# Finding the logical elements

RWD I1, Session plan, Autumn 2017

Session 1

Week 34, Wednesday 23-08-2017

Main topics

- \* Introduction to the course

- \* Introduction to HTML

Exercises

1. Download "Star Pizza.txt" and mark up the text.
2. Create the HTML page for Star Pizza.
3. Create a personal web page: CV, Hobbies, Home Country/Town etc.
4. Go to [www.w3schools.com](http://www.w3schools.com) and take the HTML tutorial.

# Marking up Text

RWD I1, Session plan, Autumn 2017

Header (1)

Session 1

Header (2)

Week 34, Wednesday 23-08-2017

Paragraph

Main topics

Header (3)

Unordered list

\* Introduction to the course

List items

\* Introduction to HTML

List items

Exercises

Header (3)

Ordered list

1. Download "Star Pizza.txt" and mark up the text.

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# The HTML

```
<h1>RWD I1, Session plan, Autumn 2017</h1>
```

```
<h2>Session 1</h2>
```

```
<p>Week 34, Wednesday 23-08-2017</p>
```

```
<h3>Main topics</h3>
```

```
<ul>
```

```
  <li>Introduction to the course</li>
```

```
  <li>Introduction to HTML</li>
```

```
</ul>
```

# The HTML

```
<h3>Exercises</h3>
```

```
<ol>
```

```
  <li>Download "Star Pizza.txt" and mark up the  
  text.</li>
```

```
  <li>Create the HTML page for Star Pizza.</li>
```

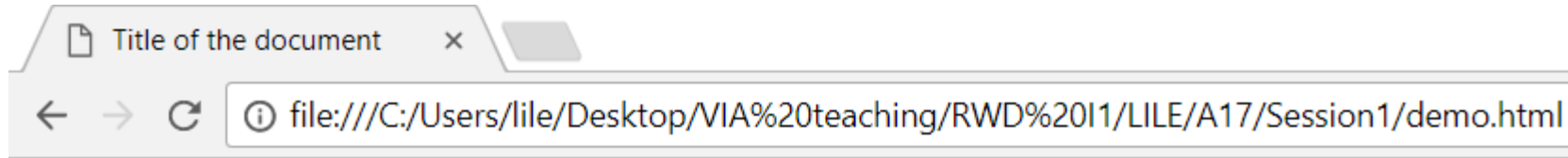
```
  <li>Create a personal web page: CV, Hobbies, Home  
  Contry/Town etc.</li>
```

```
  <li>Go to www.w3schools.com and take the HTML  
  tutorial.</li>
```

```
</ol>
```



# The Result



## **RWD I1, Session plan, Autumn 2017**

### **Session 1**

Week 34, Wednesday 23-08-2017

#### **Main topics**

- Introduction to the course
- Introduction to HTML

#### **Exercises**

1. Download "Star Pizza.txt" and mark up the text.
2. Create the HTML page for Star Pizza.
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# Minimum HTML File Contents

```
<!DOCTYPE html>
<html lang="en">
<html>
  <head>
    <meta charset="utf-8">
    <title>Title of the document</title>
  </head>
  <body>
    <p>Your text goes here</p>
  </body>
</html>
```

# Lists

- Items in a list are surrounded by `<li>...</li>`
- The unordered list (*will give you bullet points*)  
`<ul>...</ul>`
- The ordered list (*will give you numbers*)  
`<ol>...</ol>`
- The definition list (*will not give you an indentation*)  
`<dl>  
    <dt>...</dt>  
    <dd>...</dd>  
</dl>`

# Lists

## – HTML

Unordered list:

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

Ordered list:

```
<ol>
  <li>Item 1</li>
  <li>Item 2</li>
  <li>Item 3</li>
</ol>
```

## – In Browser

Unordered list:

- Item 1
- Item 2
- Item 3

Ordered list:

1. Item 1
2. Item 2
3. Item 3

# Lists

Description list:

```
<dl>
  <dt>RWD I1</dt>
  <dd>Responsive WEB
  Design course</dd>
  <dt>LRL I1</dt>
  <dd>LEGO Robot Lab
  course</dd>
</dl>
```

```
RWD I1
    Responsive WEB Design course
LRL I1
    LEGO Robot Lab course
```

# Special Characters

## Symbol

©

$\Sigma$

$\cong$

♣

®

...

## HTML

&copy;

&sum; &sigma;

&cong;

&clubs;

&reg;

&tdot;

More info: <https://dev.w3.org/html5/html-author/charref>

# The tools

- Presentation of [www.w3schools.com](http://www.w3schools.com)
- Presentation of Brackets (our editor)
- GitHub Beautify extension



# Then it's all yours

- Download "Star Pizza.txt" and mark up the text.
  - Create "index.html"
  - Use Brackets
- Create a small personal web page – CV, Hobbies, Home Country/Town ...
- Look here if you get stuck:  
<http://www.w3schools.com/html>