MSc/ICY Software Workshop Induction Week - Formal Language Example: HTML

Manfred Kerber www.cs.bham.ac.uk/~mmk

Friday 28 September 2018

HTML - Part of the Language

For a tutorial, see, e.g., https://www.w3schools.com/html/. The language elements, also called tags, start with a left acute bracket < and end with a right acute bracket >. They typically come in pairs such as the opening <html> and the closing </html>.

- <! followed by any comment>: comments start with an exclamation mark.
- Each html file should start (except for the document type and comments) with <html> (and in consequence end with </html>. The <html> element must contain two elements, a <head> and a <body>.
- The <head> contains information about the file such as a title with the <title> tag.
- The <body> contains the actually text to be displayed.
- Paragraphs are built using the tag.

HTML - Web Pages - Examples

```
<!DOCTYPE html>
<!-- An html page which just displays "Hello World" -->
<html>
  <head>
   <title>Hello World Page</title>
  </head>
  <body>
   >
     Hello World
   </body>
</html>
```

Some Important Tags

- <h1>, <h2>, <h3>, <h4>, and <h5> to display headers.
- for tables, each line using and in each line each entry using the tag.
- A newline is introduced with the
 tag.
 Instead of

 it is also possible to write

.
- Images can be included by something like
 <img width="150"
 src="http://www.cs.bham.ac.uk/~mmk/pictures/kerber.jpg"
 alt="Manfred Kerber"/>.
- Links to other web pages can be included by something like Manfred's home page.

Some Other Important Tags

- Horizontal bars by <hr>: Again <hr></hr> is abbreviated by <hr/>.

```
<!DOCTYPE html>
<html>
  <head>
    <title>Example</title>
  </head>
  <body>
    <h1>A first example</h1>
    >
      Manfred offers regular office hours. For more detail:
      <a href="http://www.cs.bham.ac.uk/~mmk/timetable.php"</pre>
    This is how Manfred looks like:<br/>
      <img width="150" src="kerber.jpg" alt="Manfred Kerber</pre>
    </body>
</html>
```

4 D > 4 A > 4 B > 4 B > B = 4900

```
<!DOCTYPE html>
<html>
 <head>
   <title>Example</title>
 </head>
 <body>
   <h1>A first example</h1>
   >
     Manfred offers regular office hours. See
     <a href="http://www.cs.bham.ac.uk/~mmk/timetable.php"</pre>
   This is how Manfred looks like:<br/>
     <img width="160" src="kerber.jpg"</pre>
          alt="Manfred Kerber">
   <h2>Timetable Overview</h2>
   Monday
       Tuesday
       Wednesday
       /+h\Thuradou//+h\
```

```
<!DOCTYPE html>
<html>
  <head>
    <title>Example</title>
    <meta name="description" lang="en" content="Example for</pre>
    <link rel="stylesheet" type="text/css" href="./example</pre>
  </head>
  <body>
    <h1>A first example</h1>
    >
      Manfred offers regular office hours. See
      <a href="http://www.cs.bham.ac.uk/~mmk/timetable.php"</pre>
    This is how Manfred looks like:<br/>
      <img width="150" src="kerber.jpg"</pre>
           alt="Manfred Kerber">
           <g\>
    <h2>Timetable Overview</h2>
    Monday
        /+h\Tuoado;;//+h\
```

```
<!DOCTYPE html>
<html>
  <head>
    <title>Example</title>
    <meta name="description" lang="en" content="Example for</pre>
    <link rel="stylesheet" type="text/css" href="./example</pre>
  </head>
  <body>
    <h1>A first example</h1>
    <div id="left">
      >
        Manfred offers regular office hours. For more detail
        <a href="http://www.cs.bham.ac.uk/~mmk/timetable.pl</pre>
      This is how Manfred looks like:<br/>
        <img width="150" src="kerber.jpg"</pre>
             alt="Manfred Kerber">
```

HTML - Web Pages - Example.css

```
body {
    background-color: #FFFFFF;
    color: #00AA00;
table {
    border-width: 1;
    border-style: solid;
    width: 50%;
}
td {
    border-width: 1;
    background-color: #117755;
    color:
                       #FFFFFF ;
    font-weight: bold ;
    font-style: italic ;
    width: 15%;
    text-align: center;
```

Exercise

Build a page similar to http://www.cs.bham.ac.uk/internal/modules/2018/06-26956/

Some useful hints on Linux:

Open first a terminal.

mkdir SWW
cd SWW
gedit school.html
firefox school.html

creates a new directory with the name SWW changes the working directory to SWW opens an editor to write a file opens the file in the firefox browser