



#### ICT-Start - Session 01

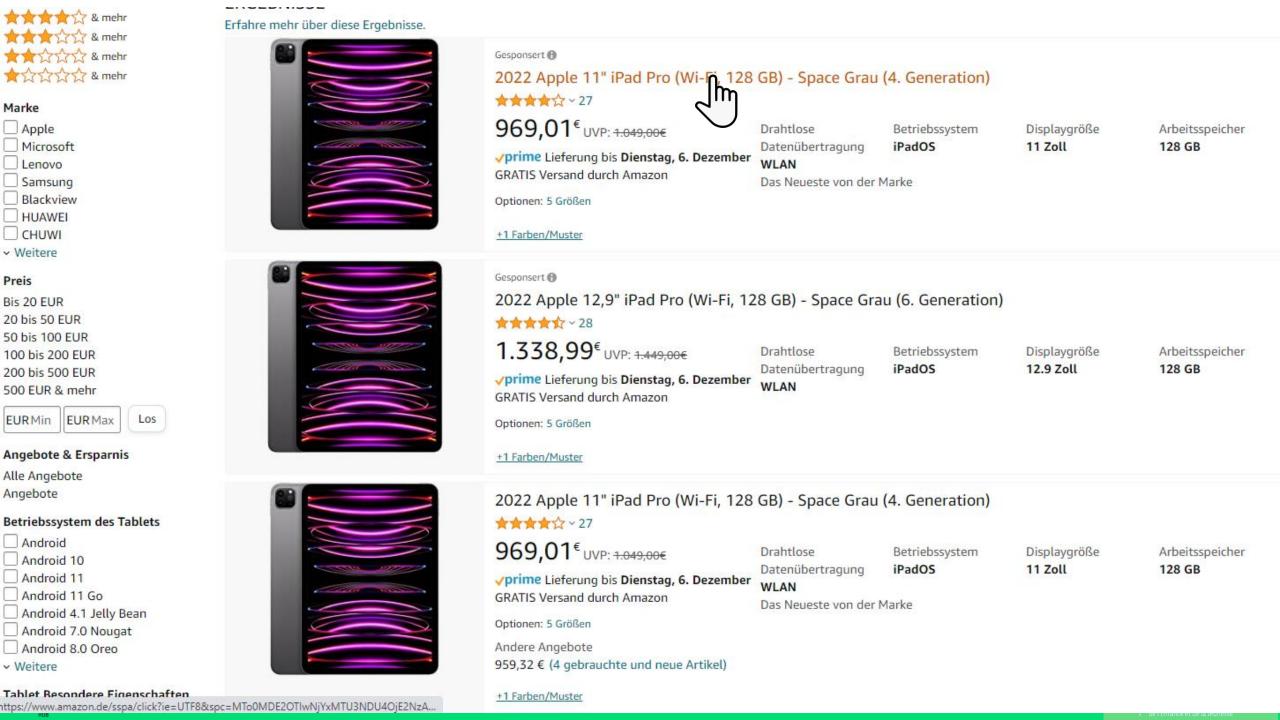
# Module 2: Creating static web pages using HTML5 and CSS3

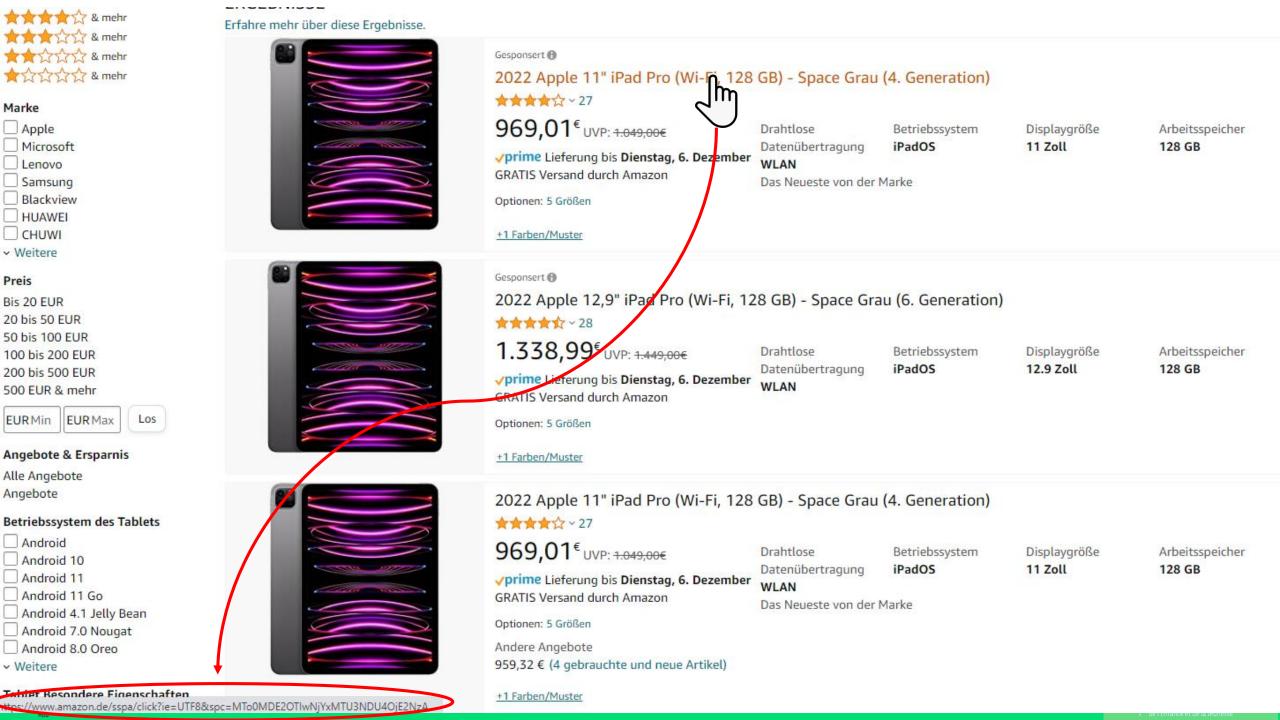
E) Hyperlinks

December 2022













# Hyperlinks using <a> Element

- The hyperlinks probably belong to the most important elements of HTML because they make it possible to switch from one web page to another.
- The corresponding HTML Element is the <a> Tag (anchor)

```
Example:
```

```
Visible,
destination (absolute path)
                                     clickable part
```



```
<a href="https://www.google.com">Google</a>
```

https://www.google.com

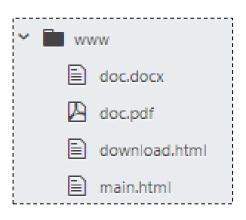








• The hyperlinks can reference other local HTML files (relative path)



# Main Page

Click here to visit the Download page.

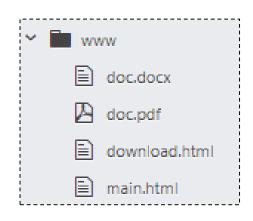
```
<h1>Main Page</h1>
Click <a href="download.html">here</a> to visit the Download page.
```











#### **Download**

Welcome to the Download page.

Here you can open and download a PDF-Document: PDF

Here you can download a Word-Document: <u>DOCX</u>

<h1>Download</h1>

Click <u>here</u> to go back to the main page.

```
Welcome to the Download page.
```

Here you can open and download a PDF-Document: <a href="doc.pdf">PDF</a>

Here you can download a Word-Document: <a href="doc.docx">DOCX</a>

<hr>>

Click <a href="main.html">here</a> to go back to the main page.

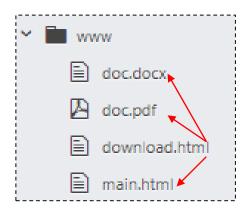








• The reference is called *relative* because the path points to a file relative to the current page (download.html)



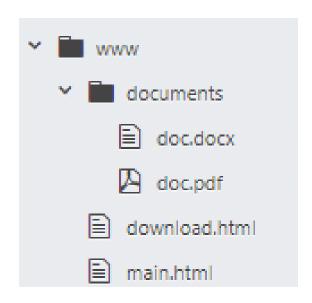








 Assuming we have the following structure, and the user visits the download.html file. What would be the correct path to the pdf and word file?











documents

doc.docx

doc.pdf

### Relative references

 Assuming we have the following structure, and the user visits the download.html file. What would be the correct path to the pdf and

word file?

```
<h1>Download</h1>
Welcome to the Download page.
Here you can open and download a PDF-Document: <a href="documents/doc.pdf">PDF</a> 
Here you can download a Word-Document: <a href="documents/doc.docx">DOCX</a>
<hr>
<hr>
<Click <a href="main.html">here</a> to go back to the main page.
```

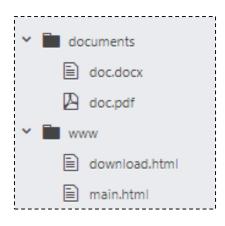








• What would be the correct path to the pdf and word file if we move the documents folder one level up?



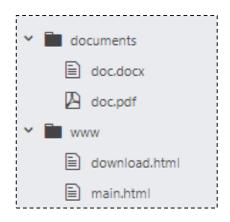








 What would be the correct path to the pdf and word file if we move the documents folder one level up?



Here you can open and download a PDF-Document: <a href="../documents/doc.pdf">PDF</a> Here you can download a Word-Document: <a href="../documents/doc.docx">DOCX</a>







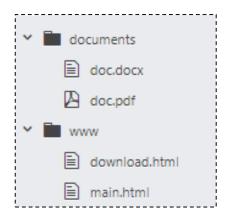
dlh.lu



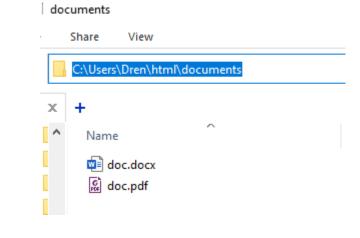
# Relative references (Alternatives)

What would be the correct path to the pdf and word file if we move

the documents folder one level up?



Which one is the best way to go?



```
Here you can open and download a PDF-D ument: <a href="../documents/doc.pdf">PDF</a> 
Here you can download a Word-Document: <a href="../documents/doc.docx">DOCX</a>
Here you can open and download a PDF-Document: <a href="C:\Users\Dren\html\documents\doc.pdf">PDF</a> 
Here you can download a Word-Document: <a href="C:\Users\Dren\html\documents\doc.docx">DOCX</a>
Here you can open and download a PDF-Document: <a href="/Users/Dren/html/documents/doc.pdf">PDF</a>
```





### Absolute references

• An absolute file reference requires the full URL/path to a file:

```
Here you can open and download a PDF-Document: <a href="https://dlh.gashi.lu/documents/doc.pdf">PDF</a> 
Here you can download a Word-Document: <a href="https://dlh.gashi.lu/documents/doc.docx">DOCX</a>
```

 Absolute file paths should only be used when the referenced file is not on your webserver!









# The target Attribute

- Anchor elements have an optional target attribute in addition to the href attribute
- The value \_blank specifies that the linked document should be opened in a new window or tab

```
<h1>Main Page</h1>
Click <a target="_blank" href="download.html">here</a> to visit the Download page
```









# The mailto: prefix

 Using the anchor element, we can redirect the user to the installed email client

## Main Page

Contact us at info@dlh.lu.

nailto:info@dlh.lu

```
<body>
     <h1>Main Page</h1>
        Contact us at <a href="mailto:info@dlh.lu">info@dlh.lu</a>.
</body>
```

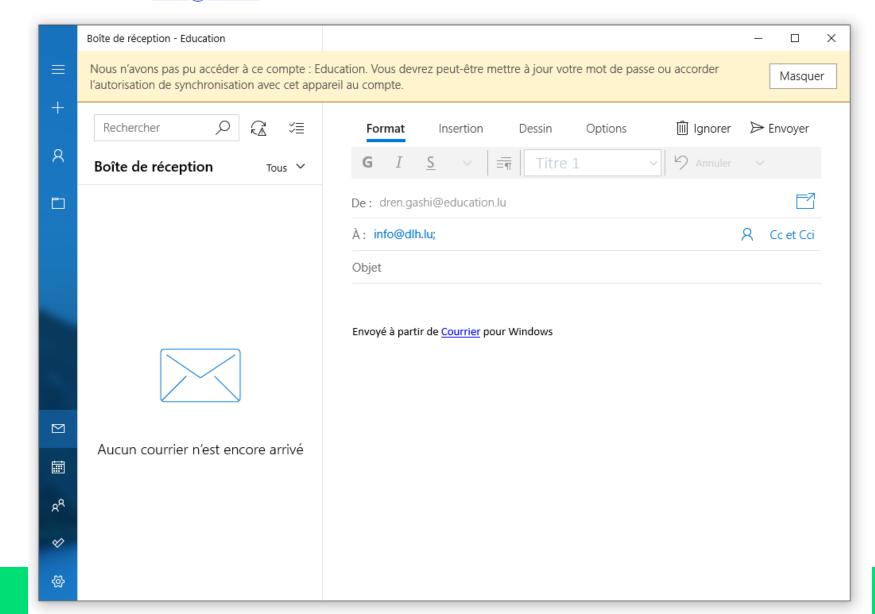




### Coding Coding Main Page



#### Contact us at info@dlh.lu.









## Cybersecurity awareness

- Unfortunately, because of such e-mail addresses on the website, sooner or later you have to expect unsolicited commercial e-mails (spam)
- Web crawlers scan websites for email addresses
- Do you have some ideas how to protect against such tricks?









# Cybersecurity awareness

- Although there are no 100% garantueed solutions, the most successful
- Use an image for the email address
- Do not use mailto: and replace @ with "[at]"
  - Example: info[at]dlh.lu
  - Encode the e-mail address with HTML entities:
    - info@dlh.lu
    - Output will still be the same <sup>©</sup>









### Exercices

