# Hypertext & Hypermedia

## Laboratory

### HTML and CSS basics

- 1. On the disk indicated by the lecturer, create a directory named with your own name and surname. Place the skeleton of the page downloaded from Moodle in it. Any text editor can be used to create the task. You can use the Visual environment or an ordinary notebook to work with files. The task should be run in the browser.
- 2. Familiarize yourself with the downloaded files. Analyze the index.html file, pay attention to the structure of the document, used tags etc. Find out where is the section contains the header, footer, menu and page content. Run the index.html file in the browser, see the effect of processing the index.html file through the browser. As you can see, the information displayed on the website is not formatted. At the beginning we will take care of completing content and functionality on the website and then the look of the page.
- 3. (0,5pt) In the footer section, enter your name, index and group number. Refresh the page in the browser.
- 4. (1pt) In the section section, place the content downloaded from the file text.doc. Divide the content into two paragraphs using the tag. Format fragment of the text using <strong> and <em> tags. Refresh the page in the browser.

#### 5. Ask the teacher to check your work.

- 6. (0,5pt) Put the image with Vannewar Bush in the section section. Use the <img> tag.
- 7. (0,5pt) In the structure.html file, put four paragraphs (p tag) for the lecture, laboratory, project and additional information in sequence. Each paragraph should have its own header (tags h2 or h3 ...).
- 8. (0,5pt) In the structure.html file, in the laboratory section, add a numbered list and place the topics of three laboratories on it.

#### 9. Ask the teacher to check your work.

- 10. Familiarize yourself with the style.css file. Pay attention to the styles assigned to individual tags, created classes, identifiers, and pseudo-classes. In the index.html file, add a link to the style.css file. Run the page in the browser, pay attention to changes in the appearance of the page. Also pay attention to the responsiveness of the page and rules, which are responsible for this.
- 11. (0,5pt) In the css file, change the background color to the one you choose. Change the font color for the used header tags (h1, h2, ...)
- 12. (0,5pt) Image with Vannewar Bush should be placed on the left side in the section section. You shoul create class (.left) in the style.css file and use it.
- 13. (0,5pt) Using the pseudo-class hover, get the effect of changing the transparency of images with Vannewar Bush after hovering over them with the cursor. After hovering over the image, the cursor should change to something other than default (cursor property).
- 14. (0,5pt) Note that the active class defined in the style.css file is used to highlight the menu item that is currently selected. Set the active class in the appropriate places for the remaining subpages, just as it was done for the main page in the index.html file.

#### 15. Ask the teacher to check your work.

16. (0,5pt) On the page in the project section, place the following table (in the file structure.html). In the css file, you must format the table cells.

Title of the project	Score
HTML, XML, XML Schema	25
XML, XSLT	15

- 17. (1pt) In the index.html file, add a text "go to the top of the page". This text should allow to navigating to the top of the page. Use the the <a> tag. Create a class to put the text in the proper place on the website.
- 18. (0,5 pt) For small screens the table in the file structure.html should not be displayed (property display)(add rule for responsive web design).
- 19. (0,5pt) In the structure.html file, in the section on additional information, add links to two pages ("HTML w3schools" and "XML w3schools"). Pages should open in a new window (target attribute)
- 20. Ask the teacher to check your work.
- 21. (2,5pt) Similarly to the previous documents, prepare the contact.html file. In the file, create a form that will contain the text box, radio button, check box and will allow you to send and clear the form. Create a new css file and format the created subpage.
- 22. Ask the teacher to check your work.

#### Hypertext & hypermedia



This is a web page about the Hypertest & bypermedia.

Vannerar Bush (1890-1974) is normally considered the "grandfather" of hypertext, since he proposed a system we would now describe as a hypertext system as long ago as 1945. This system, the Mamex ("memory extender"), was never implemented, however, but was only described as theory in Bush's paper. Bush actually developed some of his sides for the Memor in 1972 and 1973 and finally wrote a draft paper on it in 1979. For various reasons [Five and Kahn 1970, 1991) this manuscript was not published until 1941, when it appeared in the Atlantic Monthly under the title. As We May Think: Bush described the Memor is "a cort of mechanized private file and hirrary" and as a device in which is individual stores his books, records, and communications, and which is mechanized so that it may be consulted with exceeding speed and flexibility. The Memor would store this information on microfilm, which would be kept to the user's desk. This desk was intended to have several microfilm projection positions to enable the user to compare different microfilm, which would be kept as the user's desk. This desk was intended to have several microfilm required in a manuscript or enable the user to make handwritten imaginal notes and comments. But Bush enviaged that most of the Memor would have a sometie to enable the user to imput new material, and it would also allow the user to make handwritten imaginal notes and comments. But Bush enviaged that most of the Memor contents are purchased on microfilm ready for insection. Books of all sorts, jectimes, current periodicals, newspapers, are thus obtained and dropped into place. Business correspondence takes the same path Actually we have not yet reached the state of hypertext development where there is a significant amount of proposessed information for sale that can be integrated with a user's existing hypertext structure. The main reason Vannevar Bush developments in a discipline Of course, this situation is much worse now, but a van in 1943 Bush discussed the need to allow people to find i

#### Hypertext, in other words!

In addition to the establishment of milividual links, Bush wanted the Menex to support the building of trails through the material in the form of a set of links that would combine information of relavance for a specific topic. He was forecast the establishment of a new profession of "trail biances," who find delight in the task of establishing useful trails through the summum mass of the common record. In current terminology, these trail biances would be people who add while to published collections of test and other information by providing a web of hypertest links to supplement the basic information. But since we do not even have a market for basic hypertests yet, we unfortunately have to do without professional trail biances. Amateur trail biances have come into entitions in recent years in the form of people who list WWW street they find interesting on their home page. The building of trails would also be an activate for the ordinary. Memory may be find interesting on their home page. The building of trails would also be an activate for the ordinary Memory may be useful as the summar technology is not up to Busil's vision, since it is almost impossible to trainfer selected subsets of a hypertest structure to another hypertest, especially if the two hypertests are based on different systems. Visions, since it is almost impossible to trainfer selected subsets of a hypertest structure to another hypertest, especially if the two hypertests are based on different systems. Visions was a famous sciential in his days and was the science advisor to President Roosevel's during the Second World Win, when science-hased insuces like inventing nuclear weapons were of great importance. After "As We May Tinik" run in the Atlantic Monthly, it caused considerable discussion, and both Time and Lofe run stories on the Memory and a science of the histories is a second world Win, when science-hased insuces like interests on the Memory of the projection positions as the use was completing a high Doug Engelbut, who large beauting things costing millions of dollars.

Jakob Nielsen's book "Michimedia and Hypertext: The Internet and Beyond"

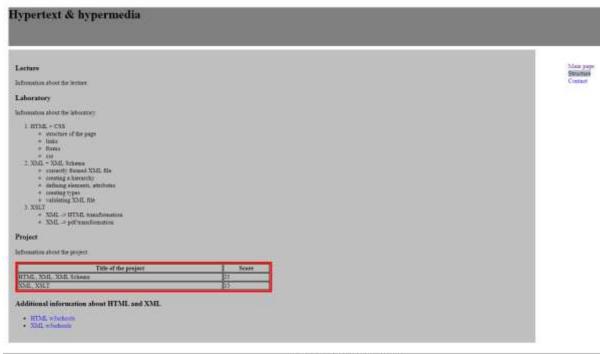
go to the top of the page



Main page



Copyright 2019, Name of the student, data



Copyright 2020. Name of the student, data

-

## Hypertext & hypermedia

Main page | Structure | Contact |

```
Lecture
Information about the lecture.
Laboratory
Information about the laboratory.
   1. HTML + CSS

    structure of the page
    links

        o forms
         o css
   2. XML + XML Schema

    correctly formed XML file
    creating a hierarchy

         o defining elements, attributes

    creating types
    validating XML file

   3. XSLT

    XML -> HTML transformation
    XML -> pdf transformation
Project
Information about the project.
Additional information about HTML and XML

    HTML w3schools

    XML w3schools
```