Assignment 1

Web technologies and architecture

Table of contents

1. Task

The assignment serves the students to deepen the contents they have learned in the subject Web Technologies and Architectures. Furthermore, this assignment is also used for grading in this subject.

This assignment covers the following content:

- HTML and CSS basics
- Size units
- CSS selectors
- Listen
- Tables
- Forms

Wendy and John Smith want you to support them in creating a first draft of their website. You will use all the elements you have learnt to meet their needs.

2. General Guidelines
- Use only relative units of measure such as EM, Rem, Viewport and percentages.
- Use a CSS file for the styles where possible.
- It is an independent work
- The lecturer may be asked if anything is unclear.

3. Tasks

1.1. Requirement 1

John and Wendy would like to create a main page with the most important product categories.

Logo_kangarooTec.png

The two imagine the solution as in the following pictures:
- There should be a link to a contact page
- The most important products are to be listed.
- The categories allow you to jump to the effective positions on the page (Samsung should jump to the bottom of the page).

Main page:

Kontakt

Elektronische Geräte

Notebooks

Apple
Dell

Tablet

Apple
Samsung

Notebooks

Apple

Apple MacBook Pro 13

Apple MacBook Pro 16

Apple MacBook Air

Dell

Dell Vostro 5402

Dell Precision 5760

Dell XPS 15 9510

Tablet

Apple

Apple IPad Pro 2021

Apple IPad mini 2

Samsung

Samsung Galaxy Tab S7+

Samsung Galaxy Tab S4

Contact page:

[Home](#)

KangarooTec LTD

40 William Street
Sydney, NSW 2000
+61 2 9976 8456

1.7.   Request 7

1.1.1.   Question 1

John and Wendy have heard that with CSS there is an Agent Style and Author Style can you explain the difference to them.
Show them the user agent style of the tag H5 as an example.

1.1.2.   Question 2

There are different ways to define the author styles. John and Wendy would like to know from you, as a professional, exactly how this prioritisation of the individual details works (describe the different categories and within the three categories the prioritisation).

1.1.3.   Question 3

John and Wendy have declared various definitions and they are now wondering exactly how these are evaluated after selector prioritisation. Can you help them?

Selector	IDs	Classes	Tags	Notation	Ranking
Html .header #header1					
#header1					
.header .title p					
#header1 h1					
.container .header .body					
Html					

1.8.   Request 8

1.1.4.   Enquiry 1

John and Wendy would like to give website visitors a brief history of the internet. They have created this text for this purpose.

```
1991
<span> Sir Tim Berners-Lee</span> published the first website. It was simple
in design and explained the purpose of the World Wide Web.

1994
The <span>World Wide Web Consortium (W3C)</span> was founded with the aim of
formulating standards for the web.

1995
The first <span> HTML specification (HTML 2.0)
</span>  appeared. The specification still allowed only single-structured and
 single-column pages.

1996
<span> CSS1</span> has been published. Browser support is still weak.
```
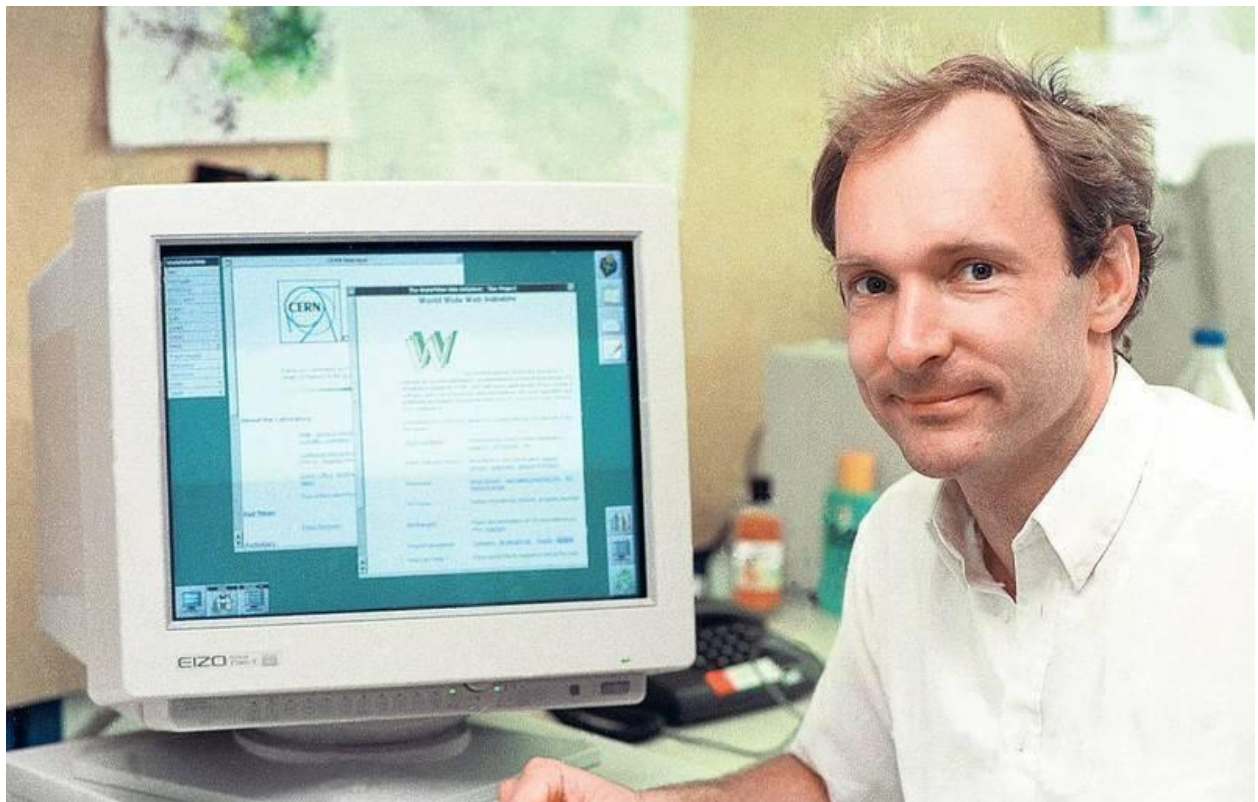
TimBerners-Lee.jpg

They are not familiar with CSS and would like to have this text formatted as shown in the following image.

The styles should be chosen in such a way that they can also be used in other places on the website (CSS file).

- The adaptation of the text is to be done exclusively via CSS or additional tags. For example, the text WORLD ... should not be rewritten so that everything becomes large.
- All pages should be able to navigate to these pages (supplementing the links)
- The span Tag show where intervention is needed.

Home
Kontakt

Geschichte Internet

1991

Sir Tim Berners-Lee veröffentlichte die erste Website. Sie war einfach aufgebaut und erklärte den Zweck des World Wide Web.

1994

Das WORLD WIDE WEB CONSORTIUM (W3C) wurde mit dem Ziel gegründet, Standards für das Web zu formulieren.

1995

Die erste HTML-Spezifikation (HTML 2.0) erschien. Die Spezifikation erlaubte weiterhin nur einfach-strukturierte und einspaltige Seiten.
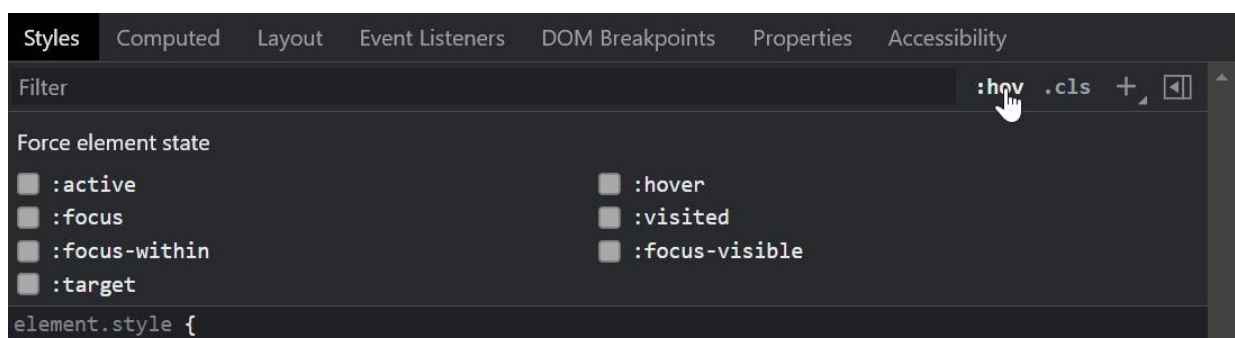
1996

CSS1 wurde veröffentlicht. Die Unterstützung durch Browser ist noch schwach.

1.1.5.   Request 2

John and Wendy would like the links to be formatted as follows, depending on the status these links have.

Work with the following options to check the results:

Links not visited   Red

Home

Visited links   Green

Home

Drive overBig and underlined

HOME

Keep button pressed   Grey

HOME

Home

1.4.   Requirement 4

John and Wendy want to create two new pages. A department page, with the employees and the supervisors. One page for the best selling products.

1.1.6.   Task 1

Create a new Department page and update all pages with the new link. Use a definition list for the departments (<dl><dt>Department name<dt>.....)

The superiors are to be highlighted via a CSS class.

Abteilung

Abteilungen in der Unternehmung

Verkauf
  JOHN SMITH
  Ella Harper
  Charls Jackson
Lager
  WENDY SMITH
  Anna Harper
  Olivia Mason

1.1.7.   Task 2

Create a new page for the best-selling products and update all pages with the new link. Use the list tags to build this list.

Meist Verkaufte Produkte

Home
Kontakt
Geschichte Internet
Abteilungen

Kategorien

   I. Notebooks
      1. Dell Precision 5760
      2. Apple MacBook Pro 13
      3. Dell XPS 15 9510
   II. Tablets
      1. Apple IPad Pro 2021
      2. Samsung Galaxy Tab S7+
      3. Apple IPad mini 2

1.   Request 13

John and Wendy would like to create a table with all employees for the personnel administration. This page is for internal purposes and is intended to create wage transparency.

Create the tables with all the different elements, like the header, footer, etc. So that you can do the design via the CSS.

Arbeitnehmende

Home
Kontakt
Geschichte Internet
Abteilungen
Meist Verkaufte Produkte

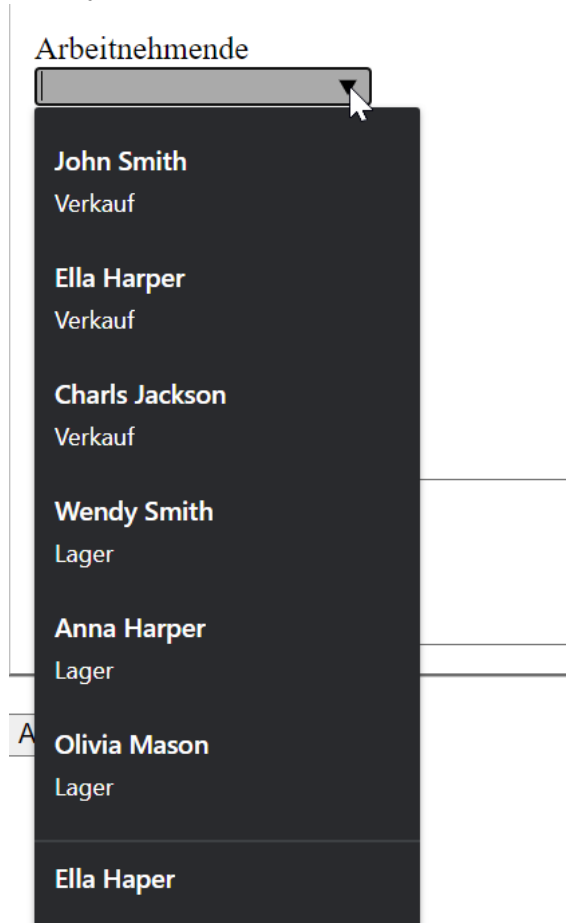| Geschlecht	Nachname	Vorname	Mitarbeiterliste KangarooTec			Farbe: #DDDDDD
Geschlecht	**Nachname**	**Vorname**	**Einstiegs Gehalt**	**Aktuelles Gehalt**	**Eintrittsdatum**	Farbe: #DDFFDD
weiblich	Smith	Wendy	10'000		01.01.1990	
	Harper	Ella Anna	5'000		01.01.2020	
	Mason	Olivia	5'000	5'500	01.01.1998	Farbe: #FFDDDD
männlich	Smith	John	10'000		01.01.1990	
	Jackson	Charls	6'000	6'500	01.01.1998	
			Gesamtsumme: 41'000	Gesamtsumme: 42'000		Farbe: #DDDDFF

1.   Request 14

John and Wendy want to give their clients the opportunity to evaluate the workers.
Create a form like the following, with the following conditions:
John and Wendy want to give their clients the opportunity to evaluate the workers.
Create a form like the following, with the following conditions:

- Gender

- Employees

- Evaluation

Bewertung

Sehr gut

Sehr gut

Gut

Durchschnitt

Schlecht

- The age must be between 18 and 100.
- The fields with the colour #BBBBFF must be entered.

Home
Abteilungen
Geschichte Internet
Meist Verkaufte Produkte
Arbeitnehmende

Bewertung der Verkaufsleistung

---Personalien---

Vorname
`Vorname eingeben`   Farbe: #BBBBFF

Name
`Name eingeben`

Geschlecht
`männlich ▾`

Alter
`0`   Farbe: red / gültig --> green

Email
`Email eingeben`

---Bewertung---

Arbeitnehmende

Dienstleistungen
☐ Betratung
☐ Reperatur
☐ Produktkauf

Bewertung
`Sehr gut ▾`

Bemerkungen

`Absenden`

4. Evaluation

The assessment is done according to the grid in the assignment.

Maximum score 100

$$\left(\frac{5}{Maximale\ Punktzahl} * Erreichtepunktzahl\right) + 1$$

$$\left(\frac{5}{100} * 60\right) + 1 = 4$$

If it is evident that the work was not done independently, up to **20 points** can be **deducted.**