**ГОСУДАРСТВЕННОЕ ОБРАЗОВАТЕЛЬНОЕ УЧРЕЖДЕНИЕ**

**ВЫСШЕГО ПРОФЕССИОНАЛЬНОГО ОБРАЗОВАНИЯ**

**"ДОНЕЦКИЙ НАЦИОНАЛЬНЫЙ ТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ"**

Лабораторная работа № 2

Тема: “Таблицы: верстка, стилизация и заполнение с помощью JavaScript ”

Проверено: Выполнил:

ст. гр. ПИ-18Б

\_\_\_\_\_\_\_\_\_\_ Моргунов А.Г.

\_\_\_\_.\_\_\_\_.2019г. \_\_\_\_.\_\_\_\_.2019г.

Донецк – 2019

Задание а

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Вариант | Кол-во | | | | Объединить | | | | | | установить цвет для каждой строки | | | |
| колонок | | строк | | 3 колонки | | на строке | | | | цвет | | строки | |
| 39 | 12 | 10 | | 2 | | 3 | | 4 | 2 | сине-зеленый | | каждая через одну | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Шрифт | | | | Стиль границы | | |
| семейство | имя | размер | выравнивание | тип | цвет | толщина |
| fantasy | Marker Felt | 18,8 | справа | dotted | фуксия | "4" |

Задание б

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Вариант | Кол-во | | Объединить | | | | установить цвет для каждой колонки | |
| колонок | строк | 3 строки | | | для колонки | цвет | колонки |
| 39 | 11 | 11 | 1 | 2 | 3 | 8 | фуксия | каждая через две |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Шрифт | | | | Стиль границы | | |
| семейство | имя | размер | выравнивание | тип | цвет | толщина |
| fantasy | Trattatello | 15,6 | справа | dotted | сине-зеленый | "5" |

Задание в

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Вариант | строки | | | | | | | | | | | | | | | | | | |
| 1 | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | |
| 39 | 192 | | 1080 | | 1968 | | 2856 | | 3744 | | 4632 | | 5520 | | 6408 | | 7296 | | 8184 |

|  |  |
| --- | --- |
| таблица | |
| преобразование | Итоги (использовать для ячеек тэг <th>) |
| Оставить как есть | Справа добавить столбец |

Файл lab1b.css

@supports (display: flex) {

@media screen and (min-width: 700px) {

body, html {

height: 100%;

margin: 0;

}

body {

font-family: Roboto, RobotoDraft, Arial, sans-serif;

font-weight: 400;

font-size: 13px !important;

color: #555;

background-color: white;

}

p.otst::first-letter{

font-size:20px;

color:red;

margin: 0 7px 2px -30px;

}

table#t1{

border-style: dotted;

border-color: fuchsia;

font-family:Market Felt, fantasy;

font-size: 18.8;

text-align-last: right;

}

table#t2{

border-style: dotted;

border-color: rgb(0,255,255);

font-family:Trattatello, fantasy;

font-size: 15.6;

text-align-last: right;

}

td#r{

background-color:fuchsia

}

th#r{

background-color:fuchsia

}

tr#h{

background-color:rgb(0,255,255)

}

header {

margin-top: -15px;

width: 100%;

background-color: #00ad6b;

color: rgb(51, 51, 51);

height: 120px;

min-width: 400px;

box-shadow: 0 5px 8px rgba(0,0,0,.28);

}

header h1 {

position: relative;

color: rgb(255, 255, 255);

font-family:Trattatello, fantasy;

font-size: 19.5px;

text-align: left;

font-weight: 300;

line-height: 20px;

white-space: nowrap;

padding-top: 10px;

}

header p {

color: rgba(255, 255, 255, 0.54);

font-weight: 400;

line-height: 31px;

font-family:Trebuchet MS, sans-serif;

font-size: 13.5px;

text-align: justify;

position: relative;

margin-left: 10px;

margin-top: -10px;

}

div.mainDiv main{

display: flex;

flex-direction: row;

justify-content: center;

}

div.asideDiv{

position: sticky;

top: 5px;

align-self: flex-start;

margin: 10px;

background-color: #42ad84;

min-width: 300px;

max-width: 350px;

border-style: solid;

border-width: 1px;

border-color: rgba(0,0,0,.12);

border-radius: 5px;

box-sizing: border-box;

box-shadow: 0 0 2px rgba(0,0,0,.12),0 2px 4px rgba(0,0,0,.24);

}

div.asideDiv li{

clear: left;

color: rgb(255, 255, 255);

cursor: pointer;

font-family: Roboto, sans-serif;

font-size: 14px;

font-style: normal;

font-weight: 400;

height: auto;

line-height: 19px;

list-style-image: none;

list-style-position: outside;

list-style-type: none;

text-align: left;

text-decoration: none;

text-decoration-color: rgb(64, 64, 64);

text-decoration-line: none;

text-decoration-style: solid;

text-overflow: ellipsis;

list-style: none;

margin-left: -20px;

}

div.asideDiv a{

clear: left;

color: rgb(64, 64, 64);

cursor: pointer;

font-family: Roboto, sans-serif;

font-size: 14px;

font-style: normal;

font-weight: 400;

height: auto;

line-height: 19px;

list-style-image: none;

list-style-position: outside;

list-style-type: none;

text-align: left;

text-decoration: none;

text-decoration-color: rgb(64, 64, 64);

text-decoration-line: none;

text-decoration-style: solid;

text-overflow: ellipsis;

}

div.asideDiv a:link{

font-weight:bolder;

}

div.asideDiv a:visited{

color:grey;

}

div.asideDiv a:hover{

font-style:italic;

}

div.asideDiv a:active{

border:2px solid red;

}

/\*aside{

position: sticky;

}\*/

div.eDiv a:link{

font-weight:bolder;

}

div.eDiv a:visited{

color:grey;

}

div.eDiv a:hover{

font-style:italic;

}

div.eDiv a:active{

border:2px solid red;

}

div.eDiv{

position: fixed;

right: 5px;

align-self: flex-start;

margin: 10px;

min-height: 30px;

min-width: 200px;

background-color: #42ad84;

border-style: solid;

border-width: 1px;

border-color: rgba(0,0,0,.12);

border-radius: 5px;

box-sizing: border-box;

box-shadow: 0 0 2px rgba(0,0,0,.12),0 2px 4px rgba(0,0,0,.24);

}

div.artDiv{

margin: 10px;

background-color: #BEBEBE;

color: rgb(51, 51, 51);

font-family: Roboto, sans-serif;

font-size: 13px;

font-weight: 400;

min-width: 300px;

max-width: 700px;

border-style: solid;

border-width: 1px;

border-color: rgba(0,0,0,.12);

border-radius: 5px;

box-sizing: border-box;

box-shadow: 0 0 2px rgba(0,0,0,.12),0 2px 4px rgba(0,0,0,.24);

}

div p{

font-family:Trebuchet MS, sans-serif;

font-size: 13.5px;

text-align: justify;

}

div.artDiv h1{

/\*display: block;\*/

color: rgba(0, 0, 0, 0.54);

font-family:Trattatello, fantasy;

font-size: 19.5px;

text-align: left;

font-weight: 300;

}

div.artDiv h2{

color: rgb(115, 115, 115);

text-align: center;

font-family:Trattatello, fantasy;

font-size: 16.5px;

font-weight: 400;

padding-bottom: 8px;

padding-left: 0px;

padding-right: 0px;

padding-top: 24px;

}

div.artDiv h3{

display: none;

color: rgb(115, 115, 115);

font-family:Trebuchet MS, sans-serif;

font-size: 13.5px;

text-align:left;

font-weight: 400;

padding-bottom: 8px;

padding-left: 0px;

padding-right: 0px;

padding-top: 24px;

}

div.sectionDiv{color: #5E5E5E;

display: block;

font-family: Roboto, sans-serif;

font-size: 12px;

font-weight: 400;

/\*height: 80px;\*/

line-height: 20px;

list-style-image: none;

list-style-position: outside;

list-style-type: none;

text-align: left;

margin:20px

}

div.sectionDiv p{

text-align: justify;

text-indent: 3ch;

}

footer{/\*background-attachment: scroll;\*/

background-color: #EF5C5F;

border-top-color: rgb(228, 228, 228);

border-top-style: solid;

border-top-width: 1px;

text-align: center;

box-sizing: border-box;

height:50px;

}

}

}

@media screen and (max-width: 699px) {

\* {

list-style: none;

}

div.mainDiv main{

display: block;}

article,header,footer,aside,main{

border-bottom-style: double;

border-width: 3px;

border-bottom-color: darkblue;

text-align: justify;

text-indent: 3ch;

}

}

@media print {

header,footer,aside{

display: none;

}

main p

{

text-align: justify;

text-indent: 3ch;

}

h1,h2,h3

{

text-align: center;

}

}

Файл script.js

const data = [ [148.0, 31.85, 11.0, ' ', ' ', ' ', 244.0, ' ', ' ', ' ', 3.7, 0.0, ' ', 1.5],

[114.0, 60.38, 57.0, ' ', ' ', ' ', 198.0, '-', '-', 1.89, ' ', '-', '-', 0.9],

[57.0, 68.57, 0.0, ' ', ' ', ' ', 343.0, ' ', ' ', 0.0, ' ', 11.0, 3.0, 14.3],

[67.0, 46.67, 0.0, ' ', ' ', ' ', 500.0, ' ', '-', 6.67, ' ', 65.7, 0, 6.7],

[48.0, 15.2, 0.0, ' ', ' ', ' ', 96.0, ' ', ' ', 0.0, ' ', '-', ' ', 4.0],

[0.0, 64.29, 0.0, ' ', ' ', ' ', 250.0, '-', ' ', 0.0, ' ', '-', '-',25.8],

[3.0, 29.41, 6.0, ' ', ' ', ' ', 247.0, '-', '-', 8.63, ' ', ' ', ' ', 1.2],

[0.0, 46.67, 0.0, ' ', ' ', ' ', 205.0, 0, 0, 0.0, ' ', 0, 0, 0.0],

[0.5, 3.33, 63.8, ' ',' ', ' ', 43.0, 0, 0, 8.33, 5.7, 0, 0, 0.0],

[8.0, 71.43, 0.0, ' ', ' ', ' ', 429.0, 3.57, 4.14, 1.79, '-', 0, 2.6, 11.7] ]

function addData() {

const tbody = document.querySelector('#name')

const btn\_f = document.querySelector('#btn\_f')

const btn\_s = document.querySelector('#btn\_s')

for(let i = 0; i < 10; i++) {

let tr = document.createElement('tr')

for(let j = 0; j < 14; j++) {

let td = document.createElement('td')

const num = data[i][j]

td.textContent = num

tr.appendChild(td)

}

tbody.appendChild(tr)

btn\_f.style.display = 'none'

btn\_s.removeAttribute('style')

}

}

function deleteHtmlElement() {

const tr = document.querySelector('#name').querySelectorAll('tr')

const thead = document.querySelector('#name\_head > tr')

const btn\_s = document.querySelector('#btn\_s')

let id = 0

console.log(tr[0].childNodes)

for(let j = 0; j < tr[0].childNodes.length; j++) {

let counter = 0

id = j

for(let i = 0; i < tr.length; i++) {

let num = '' + tr[i].childNodes[j].textContent

if(num === '0' || num === ' ' || num === '-') {

counter++

}

}

if(counter < tr.length){

for(let m = 0; m < tr.length; m++) {

num = tr[m].childNodes[id]

if(num.textContent === ' ' || num.textContent === '-'){

num.textContent = '0'

}

}

}

if(counter == tr.length){

let num = thead.childNodes[id]

thead.removeChild(num)

for(let m = 0; m < counter; m++) {

num = tr[m].childNodes[id]

tr[m].removeChild(num)

}

if(tr[1].childNodes.length == j)

break

else

--j

}

}

const td\_head\_total = document.createElement('td')

td\_head\_total.textContent = 'O'

thead.appendChild(td\_head\_total)

let min = 0

for(let i = 0; i < tr.length; i++) {

const td\_total = document.createElement('td')

let num = 0

if(i == 1)

min += 1

for(let j = 0; j < tr[0].childNodes.length - min; j++) {

num += +tr[i].childNodes[j].textContent

console.log(j, num)

}

td\_total.textContent = num.toFixed(2)

td\_total.style.backgroundColor = '#09ff00'

tr[i].appendChild(td\_total)

}

btn\_s.style.display = 'none'

}

Файл PVI\_lab\_2.html

<html>

<head>

<link rel="stylesheet" href="lab1b.css">

</head>

<body>

<h1>Таблица 1</h1>

<div>

<table id="t1" border="4" align=center>

<thead>

<tr id="h">

<th>h1</th>

<th>h2</th>

<th>h3</th>

<th>h4</th>

<th>h5</th>

<th>h6</th>

<th>h7</th>

<th>h8</th>

<th>h9</th>

<th>h10</th>

<th>h11</th>

<th>h12</th>

</tr>

</thead>

<tfoot>

<tr>

<td>foot10</td>

<td>ffoot2</td>

<td>ffoot3</td>

<td>ffoot4</td>

<td>ffoot5</td>

<td>ffoot6</td>

<td>ffoot7</td>

<td>footf8</td>

<td>ffoot9</td>

<td>ffoot10</td>

<td>footf11</td>

<td>footf12</td>

</tr>

</tfoot>

<tbody>

<tr>

<td>b2</td>

<td colspan=3>DEVELOP</td>

<td>Eater</td>

<td>OSS</td>

<td>WEx</td>

<td>EXORT</td>

<td>SPIRIT</td>

<td>Table</td>

<td>Keep</td>

<td>BOSS</td>

</tr >

<tr id="h">

<td>b3</td>

<td>b2</td>

<td>b3</td>

<td>b4</td>

<td>b5</td>

<td>b6</td>

<td>b7</td>

<td>b8</td>

<td>b9</td>

<td>b10</td>

<td>b11</td>

<td>b12</td>

</tr>

<tr>

<td>b4</td>

<td>b2</td>

<td>b3</td>

<td>b4</td>

<td>b5</td>

<td>b6</td>

<td>b7</td>

<td>b8</td>

<td>b9</td>

<td>b10</td>

<td>b11</td>

<td>b12</td>

</tr>

<tr id="h">

<td>b5</td>

<td>b2</td>

<td>b3</td>

<td>b4</td>

<td>b5</td>

<td>b6</td>

<td>b7</td>

<td>b8</td>

<td>b9</td>

<td>b10</td>

<td>b11</td>

<td>b12</td>

</tr>

<tr>

<td>b6</td>

<td>b2</td>

<td>b3</td>

<td>b4</td>

<td>b5</td>

<td>b6</td>

<td>b7</td>

<td>b8</td>

<td>b9</td>

<td>b10</td>

<td>b11</td>

<td>b12</td>

</tr>

<tr id="h">

<td>b7</td>

<td>b2</td>

<td>b3</td>

<td>b4</td>

<td>b5</td>

<td>b6</td>

<td>b7</td>

<td>b8</td>

<td>b9</td>

<td>b10</td>

<td>b11</td>

<td>b12</td>

</tr>

<tr>

<td>b8</td>

<td>b2</td>

<td>b3</td>

<td>b4</td>

<td>b5</td>

<td>b6</td>

<td>b7</td>

<td>b8</td>

<td>b9</td>

<td>b10</td>

<td>b11</td>

<td>b12</td>

</tr>

<tr id="h">

<td>b9</td>

<td>b2</td>

<td>b3</td>

<td>b4</td>

<td>b5</td>

<td>b6</td>

<td>b7</td>

<td>b8</td>

<td>b9</td>

<td>b10</td>

<td>b11</td>

<td>b12</td>

</tr>

</tbody>

</table>

</div>

<h1>Таблица 2</h1>

<div>

<table id="t2" border="5" align=center>

<thead>

<tr>

<td id="r">h1</td>

<td>h2</td>

<td>h3</td>

<td id="r">h4</td>

<td>h5</td>

<td>h6</td>

<td id="r">h7</td>

<td rowspan="3">h8</td>

<td>h9</td>

<td id="r">h10</td>

<td>h11</td>

</tr>

</thead>

<tfoot>

<tr >

<td id="r">foot11</td>

<td>ffoot2</td>

<td>ffoot3</td>

<td id="r">ffoot4</td>

<td>ffoot5</td>

<td>ffoot6</td>

<td id="r">ffoot7</td>

<td >footf8</td>

<td>ffoot9</td>

<td id="r">ffoot10</td>

<td>footf11</td>

</tr>

</tfoot>

<tbody>

<tr>

<td id="r">b2</td>

<td>DEVELOP</td>

<td>DEVELOPer</td>

<td id="r">DEVELOP</td>

<td>Eater</td>

<td>OSS</td>

<td id="r">WEx</td>

<td >EXORT</td>

<td rowspan="3">SPIRIT</td>

<td id="r">Table</td>

<td>Keep</td>

</tr >

<tr >

<td id="r">b3</td>

<td >b2</td>

<td>b3</td>

<td id="r">b4</td>

<td>b5</td>

<td>b6</td>

<td id="r">b7</td>

<td>b8</td>

<td>b9</td>

<td id="r">b10</td>

<td>b11</td>

</tr>

<tr >

<td id="r">b4</td>

<td>b2</td>

<td>b3</td>

<td id="r">b4</td>

<td>b5</td>

<td>b6</td>

<td id="r">b7</td>

<td>b8</td>

<td>b9</td>

<td id="r">b10</td>

<td>b11</td>

</tr>

<tr >

<td id="r">b5</td>

<td>b2</td>

<td>b3</td>

<td id="r">b4</td>

<td>b5</td>

<td>b6</td>

<td id="r">b7</td>

<td>b8</td>

<td>b9</td>

<td id="r">b10</td>

<td>b11</td>

</tr>

<tr>

<td id="r">b6</td>

<td>b2</td>

<td>b3</td>

<td id="r">b4</td>

<td>b5</td>

<td>b6</td>

<td id="r">b7</td>

<td>b8</td>

<td>b9</td>

<td id="r">b10</td>

<td>b11</td>

</tr>

<tr >

<td id="r">b7</td>

<td>b2</td>

<td>b3</td>

<td id="r">b4</td>

<td>b5</td>

<td>b6</td>

<td id="r">b7</td>

<td>b8</td>

<td>b9</td>

<td id="r">b10</td>

<td>b11</td>

</tr>

<tr>

<td id="r">b8</td>

<td>b4</td>

<td>b4</td>

<td id="r">b4</td>

<td>b5</td>

<td>b6</td>

<td id="r">b7</td>

<td>b8</td>

<td>b9</td>

<td id="r">b10</td>

<td>b11</td>

</tr>

<tr >

<td id="r">b9</td>

<td>b2</td>

<td>b3</td>

<td id="r">b4</td>

<td>b5</td>

<td>b6</td>

<td id="r">b7</td>

<td>b8</td>

<td>b9</td>

<td id="r">b10</td>

<td>b11</td>

</tr>

<tr >

<td id="r">b10</td>

<td>DEVELOP</td>

<td>DEVELOPer</td>

<td id="r">DEVELOP</td>

<td>Eater</td>

<td>OSS</td>

<td id="r">WEx</td>

<td>EXORT</td>

<td>SPIRIT</td>

<td id="r">Table</td>

<td>Keep</td>

</tr >

</tbody>

</table>

</div>

<h1>Таблица 3</h1>

<div>

<table cellpadding="5" id="t3" border="5" align=center>

<thead id="name\_head">

<tr><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td><td>G</td><td>H</td><td>I</td><td>J</td><td>K</td><td>L</td><td>M</td><td>N</td></tr>

</thead>

<tbody id="name">

</tbody>

<tfoot>

<tr>

<td id="btn\_f" colspan="14"><a href="#" onclick="addData()">Заполни меня</a></td>

</tr>

<tr>

<td id="btn\_s" colspan="14" style="display: none"><a href="#" onclick="deleteHtmlElement()">Итоги</a></td>

</tr>

</tfoot>

</table>

<script type="text/javascript" src="script.js"></script>

</div>

</body>

</html>