 МІНІСТЕРСТВО ОСВІТИ I НАУКИ УКРАЇНИ

НАЦІОНАЛЬНИЙ ТЕХНІЧНИЙ УНІВЕРСИТЕТ УКРАЇНИ

«КИЇВСЬКИЙ ПОЛІТЕХНІЧНИЙ ІНСТИТУТ   
ІМЕНІ ІГОРЯ СІКОРСЬКОГО»

ФАКУЛЬТЕТ БІОМЕДИЧНОЇ ІНЖЕНЕРІЇ

КАФЕДРА БІОМЕДИЧНОЇ КІБЕРНЕТИКИ

**Комп’ютерний практикум №6**

з дисципліни «Веб-технології та веб-дизайн-1»

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(підпис викладача)

Київ-2020

[**переглянути лабораторну**](https://passvvord.github.io/labs/06/code/index.html)

**Код**

index.html

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<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

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

<script type="text/javascript" src="photo-gallery.js" defer></script>

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

<title>галерея</title>

</head>

<body class="body-100-absolute">

<div class="preloader" id="preloader">

<div class="l-text" id="l-text">Loading 0%</div>

<div class="loading-box">

<div class="loading-line" id="l-line"></div>

</div>

</div>

<a href="../../../index.html" class="to\_labs"><</a>

<header>GALLERY</header>

<photo-gallery list="https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20191106\_163805-01.jpeg?alt=media&token=c41ad1b1-80ae-4e8d-ab3b-0e173b1aab0d;https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20191110\_123517-01.jpeg?alt=media&token=c4069c13-0957-4bed-ad64-70b081804c06;https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20191110\_143951~2-01.jpeg?alt=media&token=36ad0028-da13-43b6-aef8-08ba2cdb1377;https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20191111\_132817-01.jpeg?alt=media&token=c83fc717-08a6-44eb-ba98-5e984fdf0976;https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20200107\_183330-01.jpeg?alt=media&token=0f10e00f-94fd-4d5c-92b0-61f830fdb198;https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20200107\_184524-02.jpeg?alt=media&token=78ee5699-6bf8-46c0-a58e-f4c31dec2fd6;https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20200202\_165135-01.jpeg?alt=media&token=3eb92b2e-0ad4-494f-91cd-22bea7c75ccb;https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2F01.jpg?alt=media&token=236e5936-e3f4-408d-a15d-268cd34fe5a3;

https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20170719\_181326-01.jpeg?alt=media&token=400c368f-0b53-4e85-b039-e3c0d62bc11d;

https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20170722\_134014-01-01.jpeg?alt=media&token=3353f303-a016-48bc-98e4-965457ac7692;

https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20171016\_184358.jpg?alt=media&token=94a912e5-8ebb-47d1-b1f4-4399a872b042;

https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20180106\_125805-01.jpeg?alt=media&token=c37ce8de-ef5a-4c0b-bbfa-74093bf8e996;

https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20180501\_170055-01.jpeg?alt=media&token=a868f850-9ea0-4fc0-abe6-f9db25bd31c8;

https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20180817\_142555-01.jpeg?alt=media&token=20474b10-9cd9-482a-b553-7587b8b3749d;

https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20180818\_090239-01.jpeg?alt=media&token=4979db45-5149-446e-9d36-d6c9bf3c28ec;

https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FIMG\_20190818\_152042.jpg?alt=media&token=4a4ffde1-dda4-4e0b-be9b-fbf1ab71584c;

https://firebasestorage.googleapis.com/v0/b/aai-database-01.appspot.com/o/web\_lab\_06\_gallery%2FN0haYzT.gif?alt=media&token=2c617b2a-b150-4d54-b6d8-1d884cb86f9c;"></photo-gallery>

</body>

</html>

photo-gallery.js

----------------------------------------------------------------------------------

let all\_img\_count = 0;

let now\_loaded\_img = 0;

class PhotoGallery extends HTMLElement {

constructor() {

super();

var shadow = this.attachShadow({ mode: 'open' });

let img\_res = [];

if (this.hasAttribute('list')) {

img\_res = this.getAttribute('list').split(';');

all\_img\_count = img\_res.length;

}

let html\_str = '';

html\_str += `

<style type="text/css">

.img-block {

display: flex;

flex-direction: row;

flex-wrap: wrap;

padding: 0.5vh;

justify-content: center;

}

.img-block>div {

height: 20vh;

width: 20vh;

overflow: hidden;

margin: 0.5vh;

display: flex;

align-items: center;

justify-content: center;

border-radius: 1vh;

}

img {

height: 100%;

width: auto;

border-radius: 1vh;

transition-duration: 1s;

}

@media (max-width: 100vh) {

.img-block>div {

height: calc(98vw - 2vh);

width: calc(98vw - 2vh);

margin: 1vw;

}

img {

height: auto;

width: 100%;

}

}

@keyframes div\_full\_scren {

0% {

position: fixed;

margin: 0px;

padding: 0px;

top: var(--div-top);

left: var(--div-left);

height: var(--div-height);

width: var(--div-width);

background: rgba(0, 0, 0, 0);

}

100% {

position: fixed;

margin: 0px;

padding: 0px;

top: 0px;

left: 0px;

height: 100vh;

width: 100vw;

background: rgba(0, 0, 0, 0.75);

}

}

@keyframes img\_full\_scren {

0% {

height: var(--img-height);

width: var(--img-width);

}

100% {

height: var(--img-after-height);

width: var(--img-after-width);

}

}

@keyframes div\_full\_scren\_r {

100% {

position: fixed;

margin: 0px;

padding: 0px;

top: var(--div-top);

left: var(--div-left);

height: var(--div-height);

width: var(--div-width);

background: rgba(0, 0, 0, 0);

}

0% {

position: fixed;

margin: 0px;

padding: 0px;

top: 0px;

left: 0px;

height: 100vh;

width: 100vw;

background: rgba(0, 0, 0, 0.75);

}

}

@keyframes img\_full\_scren\_r {

100% {

height: var(--img-height);

width: var(--img-width);

}

0% {

height: var(--img-after-height);

width: var(--img-after-width);

}

}

</style>`;

html\_str += '<div class="img-block">'

for (let i in img\_res) {

html\_str += `

<div onclick="fullscreen(this)"><img

src = "` + img\_res[i] + `"

onerror="this.src = 'img\_error.svg'"

onload="calc\_size(this)"

></div>`;

}

html\_str += '</div>'

shadow.innerHTML = html\_str;

}

}

customElements.define('photo-gallery', PhotoGallery);

let full\_screen = false;

let disable\_func = false;

function fullscreen(div) {

if (!disable\_func) {

let div\_pos = div.getBoundingClientRect();

let img = div.firstChild;

let img\_pos = img.getBoundingClientRect();

let html = document.documentElement;

if (!full\_screen) {

disable\_func = true;

html.style.overflow = 'hidden';

let html\_pos = html.getBoundingClientRect();

div.style.setProperty('--div-top', Math.round(div\_pos.top) + 'px');

div.style.setProperty('--div-left', Math.round(div\_pos.left) + 'px');

div.style.setProperty('--div-height', Math.round(div\_pos.height) + 'px');

div.style.setProperty('--div-width', Math.round(div\_pos.width) + 'px');

div.style.animation = 'div\_full\_scren 1s normal 1 forwards';

img.style.setProperty('--img-height', Math.round(img\_pos.height) + 'px');

img.style.setProperty('--img-width', Math.round(img\_pos.width) + 'px');

console.log('html\_pos = ', html\_pos);

console.log('div\_pos = ', div\_pos);

console.log('img\_pos = ', img\_pos);

if ((img\_pos.height \* html\_pos.width) / img\_pos.width < html\_pos.height) {

console.log('zoom type 01 image width = html width');

img.style.setProperty('--img-after-height', Math.round((img\_pos.height \* html\_pos.width) / img\_pos.width) + 'px');

img.style.setProperty('--img-after-width', Math.round(html\_pos.width) + 'px');

}

if ((img\_pos.width \* html\_pos.height) / img\_pos.height <= html\_pos.width) {

console.log('zoom type 02 image height = html height');

img.style.setProperty('--img-after-height', Math.round(html\_pos.height) + 'px');

img.style.setProperty('--img-after-width', Math.round((img\_pos.width \* html\_pos.height) / img\_pos.height) + 'px');

}

img.style.animation = 'img\_full\_scren 1s 0s normal 1 forwards';

div.style.borderRadius = '0px';

img.style.borderRadius = '0px';

setTimeout(function() {

full\_screen = true;

disable\_func = false;

}, 1000)

} else {

disable\_func = true;

html.style.overflow = 'visible';

div.style.animation = 'div\_full\_scren\_r 1s normal 1';

img.style.animation = 'img\_full\_scren\_r 1s normal 1';

div.style.borderRadius = '1vh';

img.style.borderRadius = '1vh';

setTimeout(function() {

full\_screen = false;

disable\_func = false;

}, 1000)

}

}

}

function calc\_size(img) {

now\_loaded\_img += 1;

document.getElementById('preloader').style.setProperty('--loading-num', now\_loaded\_img / all\_img\_count);

document.getElementById('l-text').innerHTML = 'Loading ' + Math.round(100 \* now\_loaded\_img / all\_img\_count) + '%';

if (all\_img\_count == now\_loaded\_img) {

var preloader = document.getElementById('preloader');

var line = document.getElementById('l-line');

console.log(preloader);

console.log('the page is ready');

setTimeout(function() {

preloader.style.opacity = 0;

preloader.style.visibility = 'hidden';

}, 200);

}

let img\_pos = img.getBoundingClientRect();

if (img\_pos.height <= img\_pos.width) {

img.style.height = '100%';

img.style.width = 'auto';

}

if (img\_pos.height > img\_pos.width) {

img.style.height = 'auto';

img.style.width = '100%';

}

}

style.css

----------------------------------------------------------------------------------

@import url(../../../for\_menu/global.css);

body {

background: #323232;

}

header {

height: 5vh;

width: 100vw;

font-size: 5vh;

text-align: center;

line-height: 5vh;

font-family: poly;

background: #ff3232;

color: #fff;

}

.to\_labs {

color: #fff;

}

.preloader {

--loading-num: 0; /\*0 ... 1\*/

--loading: calc(40vw \* var(--loading-num));

position: fixed;

width: 100vw;

height: 100vh;

background: #323232;

display: flex;

flex-direction: column;

justify-content: center;

align-items: center;

flex-wrap: wrap;

opacity: 1;

visibility: visible;

transition-duration: 0.5s;

z-index: 100;

}

.l-text {

height: 5vh;

font-size: 3vh;

font-family: sf;

color: #ff3232;

text-shadow: 0 0 5vh #ff3232, 0 0 5vh #ff3232;

}

.loading-box {

display: flex;

flex-direction: column;

width: 40vw;

height: 1vh;

background: #252525;

border-radius: 0.5vh;

}

.loading-line {

width: var(--loading);

height: 1vh;

background: #ff3232;

box-shadow: 0 0 5vh 0 #ff3232;

border-radius: 0.5vh;

transition-duration: 1s;

}

**Результат**









