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Interaktywna grafika i prezentacja danych

Laboratorium 4

Proste animacje – wykorzystanie przejść (CSS)

Zadanie 1

Strona główna

Album zdjęć

Strona Główna
O nas
Kontakt



2025 Moja Strona

Po kliknięciu w miniaturkę:



HTML:

```
<!DOCTYPE html>
<html lang="pl">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Strona</title>
    <link rel="stylesheet" href="style.css" />
    <script src="script.js" defer></script>
  </head>
  <body>
    <header>
      <h1>Album zdjęć</h1>
    </header>
    <div class="container">
      <nav>
        <ul>
          <li><a href="#">Strona Główna</a></li>
          <li><a href="#">O nas</a></li>
          <li><a href="#">Kontakt</a></li>
        </ul>
      </nav>
      <main>
        <div class="photo-gallery">
          <div class="thumbnail" data-image="img/img1.jpg">
            
          </div>
          <div class="thumbnail" data-image="img/img2.jpg">
            
          </div>
        </div>
      </main>
    </div>
  </body>

```

```

<div class="thumbnail" data-image="img/img3.jpg">
    
</div>
<div class="thumbnail" data-image="img/img4.jpg">
    
</div>
<div class="thumbnail" data-image="img/img5.jpg">
    
</div>
<div class="thumbnail" data-image="img/img6.jpg">
    
</div>
<div class="thumbnail" data-image="img/img7.jpg">
    
</div>
<div class="thumbnail" data-image="img/img8.jpg">
    
</div>
<div class="thumbnail" data-image="img/img9.jpg">
    
</div>
<div class="thumbnail" data-image="img/img10.jpg">
    
</div>
</div>
<div class="lightbox">
    <img id="lightbox-image" src="" alt="Wybrane zdjęcie" />
</div>
</main>

</div>
<footer>
    <p>2025 Moja Strona.</p>
</footer>
</body>
</html>

```

JS:

```

document.addEventListener("DOMContentLoaded", () => {
    const thumbnails = document.querySelectorAll(".thumbnail");
    const lightbox = document.querySelector(".lightbox");
    const lightboxImage = document.getElementById("lightbox-image");

    thumbnails.forEach((thumbnail) => {
        thumbnail.addEventListener("click", () => {
            const imageSrc = thumbnail.getAttribute("data-image");
            lightboxImage.src = imageSrc;
            lightbox.classList.add("active");

            if (["img/img1.jpg", "img/img2.jpg"].includes(imageSrc)) {
                lightboxImage.classList.add("rotate");
            } else {
                lightboxImage.classList.remove("rotate");
            }
            setTimeout(() => {
                lightboxImage.style.transform = "scale(1) translateY(0)";
                lightboxImage.style.opacity = "1";
            }, 50);
        });
    });
}

```

```
});  
});
```

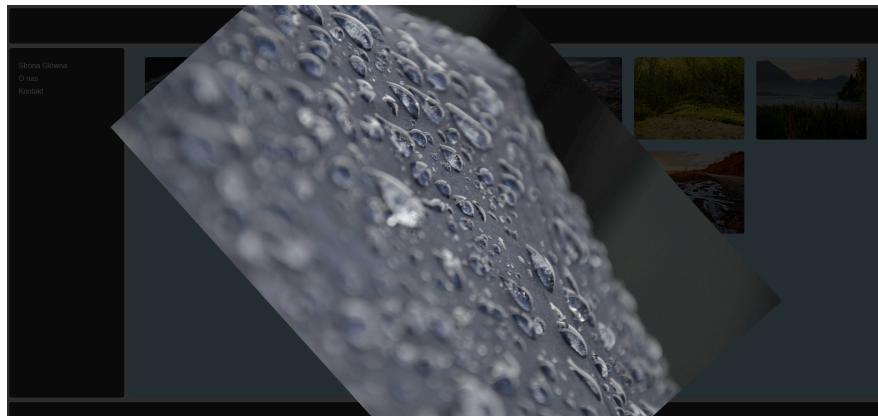
CSS:

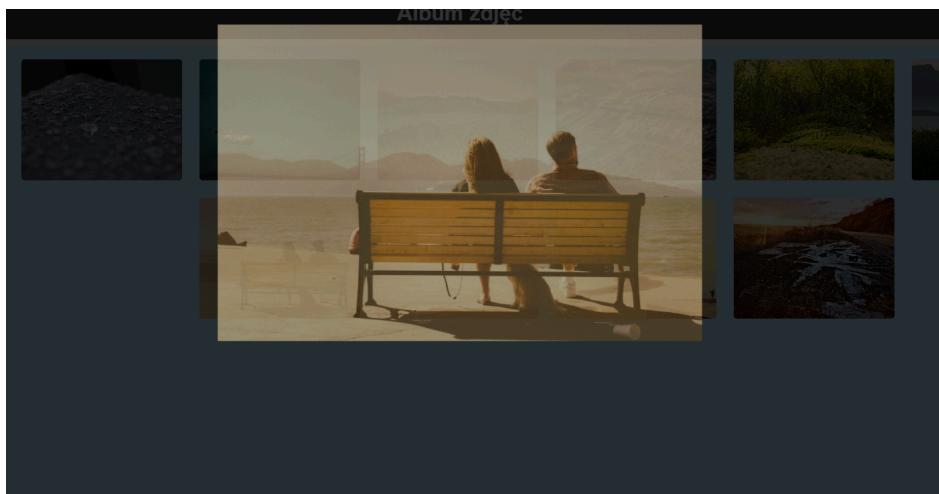
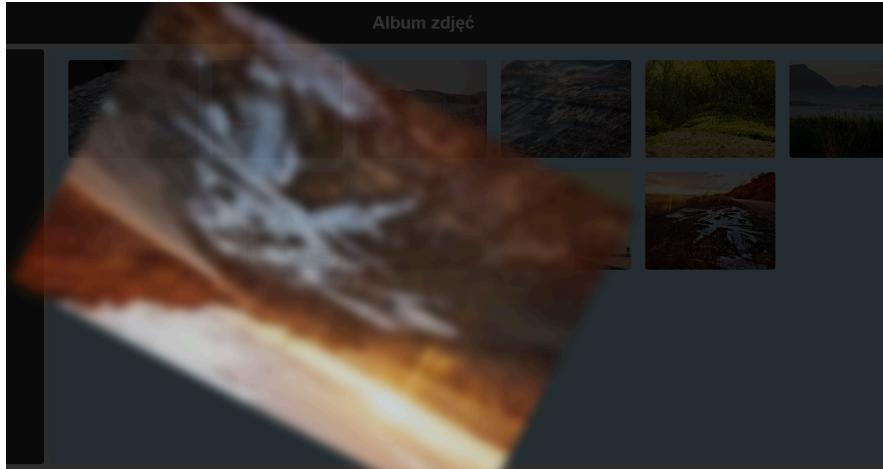
```
/* Photo gallery */  
  
.photo-gallery {  
    display: flex;  
    flex-wrap: wrap;  
    gap: 26px;  
    justify-content: center;  
}  
  
.thumbnail {  
    width: 240px;  
    height: 180px;  
    overflow: hidden;  
    border-radius: 5px;  
    cursor: pointer;  
    transition: transform 0.8s cubic-bezier(.71,.2,.26,.83);  
}  
.thumbnail img {  
    width: 100%;  
    height: 100%;  
    object-fit: cover;  
}  
  
.thumbnail:hover {  
    transform: scale(1.35) rotate(6deg);  
    transition: transform 0.8s cubic-bezier(.02,-1.15,.4,1.05);  
    animation: shake-tl 1s cubic-bezier(0.455, 0.030, 0.515, 0.955) both;  
}
```

Zadanie 2

Zastosowałem kilka różnych animacji do poszczególnych zdjęć, różne dla kliknięcie oraz schowania się zdjęcia.

Animacje:





JS:

```
document.addEventListener("DOMContentLoaded", () => {
    const thumbnails = document.querySelectorAll(".thumbnail");
    const lightbox = document.querySelector(".lightbox");
    const lightboxImage = document.getElementById("lightbox-image");

    thumbnails.forEach((thumbnail) => {
        thumbnail.addEventListener("click", () => {
            const imageSrc = thumbnail.getAttribute("data-image");
            lightboxImage.src = imageSrc;
            lightbox.classList.add("active");

            if (["img/img1.jpg", "img/img2.jpg"].includes(imageSrc)) {
                lightboxImage.classList.add("rotate");
            } else {
                lightboxImage.classList.remove("rotate");
            }

            if (imageSrc === "img/img3.jpg") {
                lightboxImage.classList.add("bounce");
            } else {

```

```

        lightboxImage.classList.remove("bounce");
    }

    if (["img/img4.jpg", "img/img5.jpg", "img/img6.jpg" ,
"img/img7.jpg"].includes(imageSrc)) {
        lightboxImage.classList.add("slide-in-elliptic-bottom-fwd");
    } else {
        lightboxImage.classList.remove("slide-in-elliptic-bottom-fwd");
    }

    if (["img/img8.jpg", "img/img9.jpg",
"img/img10.jpg"].includes(imageSrc)) {
        lightboxImage.classList.add("roll-in-blurred-left");
    } else {
        lightboxImage.classList.remove("roll-in-blurred-left");
    }

    setTimeout(() => {
        lightboxImage.style.transform = "scale(1) translateY(0)";
        lightboxImage.style.opacity = "1";
    }, 50);
}

lightbox.addEventListener("click", () => {
    lightboxImage.classList.remove("rotate");
    lightboxImage.classList.remove("bounce");
    lightboxImage.classList.remove("slide-in-elliptic-bottom-fwd");
    lightboxImage.classList.remove("roll-in-blurred-left");

    lightboxImage.classList.add("slide-out-elliptic-top-bck");

    lightboxImage.style.opacity = "0";
    setTimeout(() => {
        lightbox.classList.remove("active");
        lightboxImage.src = "";
    }, 1100);
}
);

```

CSS dla różnych animacji:

```

@keyframes shake-tl {
    0%,
    100% {
        transform: rotate(0deg);
        transform-origin: 0 0;
    }
    10% {
        transform: rotate(2deg);
    }
    20%,
    40%,
    60% {
        transform: rotate(-10deg);
    }
    30%,

```

```
50%,
70% {
  transform: rotate(4deg);
}
80% {
  transform: rotate(-2deg);
}
90% {
  transform: rotate(2deg);
}
}

.lightbox {
  display: none;
  position: fixed;
  top: 0;
  left: 0;
  width: 100vw;
  height: 100vh;
  background: rgba(0, 0, 0, 0.8);
  justify-content: center;
  align-items: center;
  z-index: 1000;
}
.lightbox img {
  max-width: 80%;
  max-height: 80%;
  opacity: 0;
}

.lightbox.active {
  display: flex;
}

.lightbox.active img {
  transform: scale(1) translateY(0);
  opacity: 1;
}

/* Animations */

.lightbox img.roll-in-blurred-left {
  animation: roll-in-blurred-left 1.6s cubic-bezier(0.230, 1.000, 0.320, 1.000)
both;
}
@keyframes roll-in-blurred-left {
  0% {
    transform: translateX(-1000px) rotate(-720deg);
    filter: blur(50px);
    scale: 0.4;
    opacity: 0;
  }
  100% {
    transform: translateX(0) rotate(0deg);
    filter: blur(0);
    scale: 1;
    opacity: 1;
  }
}
```

```
}

@keyframes slide-in-elliptic-bottom-fwd {
  0% {
    transform: translateY(600px) rotateX(30deg) scale(0);
    transform-origin: 50% 100%;
    opacity: 0;
  }
  100% {
    transform: translateY(0) rotateX(0) scale(1);
    transform-origin: 50% -1400px;
    opacity: 1;
  }
}
.lightbox img.slide-in-elliptic-bottom-fwd {
  animation: slide-in-elliptic-bottom-fwd 1.2s cubic-bezier(0.250, 0.460, 0.450, 0.940) both;
}

@keyframes rotateTwice {
  0% {
    -webkit-transform: scale(1) rotateZ(0);
    transform: scale(1) rotateZ(0);
  }
  50% {
    -webkit-transform: scale(1.5) rotateZ(180deg);
    transform: scale(1.5) rotateZ(180deg);
  }
  100% {
    -webkit-transform: scale(1) rotateZ(360deg);
    transform: scale(1) rotateZ(360deg);
  }
}
.lightbox img.rotate {
  animation: rotateTwice 0.8s linear 2 both;
}

@keyframes bounceFade {
  0% {
    transform: scale(0.2) translateY(-100px);
    opacity: 0;
  }
  50% {
    transform: scale(1.5) translateY(-20px);
    opacity: 0.8;
  }
  100% {
    transform: scale(1) translateY(0);
    opacity: 1;
  }
}
.lightbox img.bounce {
  animation: bounceFade 1.5s ease forwards;
}

/* Fade out */
.slide-out-elliptic-top-bck {
  animation: slide-out-elliptic-top-bck 1s ease-in both;
```

```
}
```

```
@keyframes slide-out-elliptic-top-bck {
```

```
0% {
```

```
    transform: translateY(0) rotateX(0) scale(1);
```

```
    transform-origin: 50% 1400px;
```

```
    opacity: 1;
```

```
}
```

```
100% {
```

```
    transform: translateY(-600px) rotateX(-30deg) scale(0);
```

```
    transform-origin: 50% 100%;
```

```
    opacity: 1;
```

```
}
```

```
}
```