WEB DESIGN

Kurikulum

- Pengantar Web Design
- Definisi Umum HTML
- HTML Dasar
- HTML Form
- HTML Embedded Grafis
- Landing Page
- Definisi CSS

- CSS Formatting Text
- CSS Positioning
- CSS Layout Flexbox
- CSS Layout Grid
- CSS Animation
- Responsive Web Design (RWD)
- Desain RWD Eksternal

Reward

```javascript
export const Reward = (point) => {
    const hadiah = []
    if (point >= 750) {
        hadiah[0] = "Penambahan Nilai"
        hadiah[1] = "Mendapatkan Hadiah"
        console.log(hadiah);
    }

    else if (point >= 500) {
        hadiah[0] = "Penambahan Nilai"
        console.log(hadiah);
    }

    else {
        console.log("Tetap Semangat");
    }
}
```

- Tiap pertemuan akan ada penilaian berupa kuis
- Bagi mahasantri yang aktif akan mendapatkan point
- Jika point telah mencapai 500, maka mahasantri berhak menerima penambahan nilai
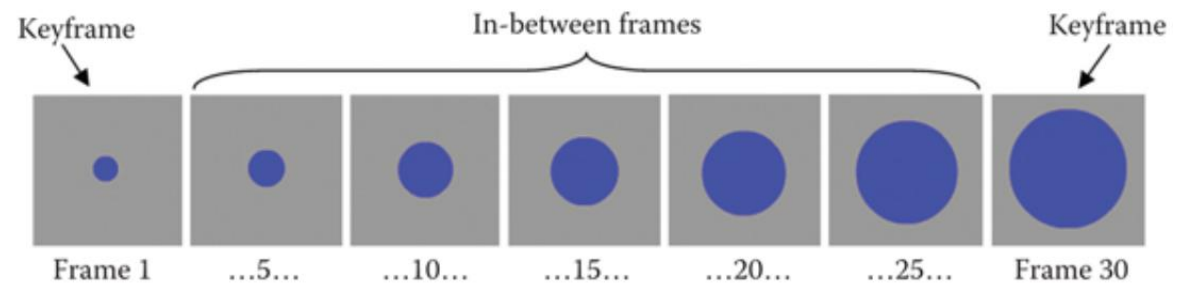- Jika point telah mencapai 750 maka mahasantri berhak mendapatkan hadiah

"Jangan membuat kecewa orang yang telah berbaik sangka terhadapmu, dan jangan melanggar hak saudaramu semata-mata disebabkan kau begitu yakin akan kuatnya hubungan dengannya. Seseorang yang selalu kau langgar haknya tidak akan rela menjadi saudaramu." - Ali bin Abi Thalib

(Ali bin Abi Thalib)

CSS ANIMATION

CSS Animation

- Agar tampilan lebih hidup/aktraktif halaman web dapat menggunakan CSS property animasi

- Animasi dapat berupa animasi 2D atau 3D

- Beberapa animasi biasanya membutuhkan kode JavaScript

- Contoh: Animasi dapat dikenakan pada sebuah gambar yang berganti2 ditampilkan setiap detik dalam waktu yang ditentukan, kumpulan gambar2 disebut dengan frames

CSS Animation

```css
@keyframes animation-name {
    keyframe { property: value; }
    /* additional keyframes */
}


@keyframes colors {
    0% { background-color: red; }
    20% { background-color: orange; }
    40% { background-color: yellow; }
    60% { background-color: green; }
    80% { background-color: blue; }
    100% { background-color: purple; }
}
```

```html
<div id="magic">Magic!</div>
```

Magic!	0% red
Magic!	
Magic!	20% orange
Magic!	
Magic!	40% yellow
Magic!	20s
Magic!	60% green
Magic!	
Magic!	80% blue
Magic!	
Magic!	100% purple

```css
@keyframe slide {
    from { margin-left: 100% }
    to { margin-left: 0%; }
}
```

CSS Shake

```
@keyframes shake {
    0%, 100% {transform: translateX(0);}
    10%, 30%, 50%, 70%, 90% {transform: translateX(-10px);}
    20%, 40%, 60%, 80% {transform: translateX(10px);}
}
```

Parameters

- **Transform** – Transform applies to 2d and 3d transformation to an element.

- **Opacity** – Opacity applies to an element to make translucence.

CSS Zoom

```css
CSS
div {
  padding: 50px;
  font-size: 60px;
  text-align: center;
  color: dark orange;
  animation-name: zooming;
  animation-duration: 1.5s;
  animation-delay: 1s;
  animation-fill-mode: both;
  animation-iteration-count: 3;
}
@keyframes zooming {
  0% {
    transform: scale(0.1);
  }
  50% {
    transform: scale(1.0) rotateZ(45deg);
  }
  100% {
    transform: scale(2);
  }
}
```

```html
HTML
<div>Zooming in</div>
```

Zooming in

CSS Move & Pulse

```css
CSS
.ball {
  height: 200px;
  width: 200px;
  background-color: orange;
  border-radius: 100%;
  animation: move 10s ease-in infinite alternate, pulse 1s
    linear infinite alternate;
}
@keyframes move {
  0% { transform: translate(0, 0); }
  100% { transform: translate(600px, 0); }
}
@keyframes pulse {
  0% { background-color: orange; }
  100% { background-color: red; }
}
```

```html
HTML
<div class="ball"></div>
```

CSS Animation Transition

- Digunakan untuk animasi berupa transisi objek dengan periode waktu yang ditentukan

- Sintaks CSS menggunakan pseudo-class :hover , :active , :focus

- Beberapa hal yang perlu ditentukan untuk animasi transisi:

  - CSS property mana yang akan dilakukan transisi (transition-property)

  - Berapa lama waktunya (transition-duration)

  - Apakah ada pause (jeda sejenak) sebelum transisi dijalankan (transition-delay)
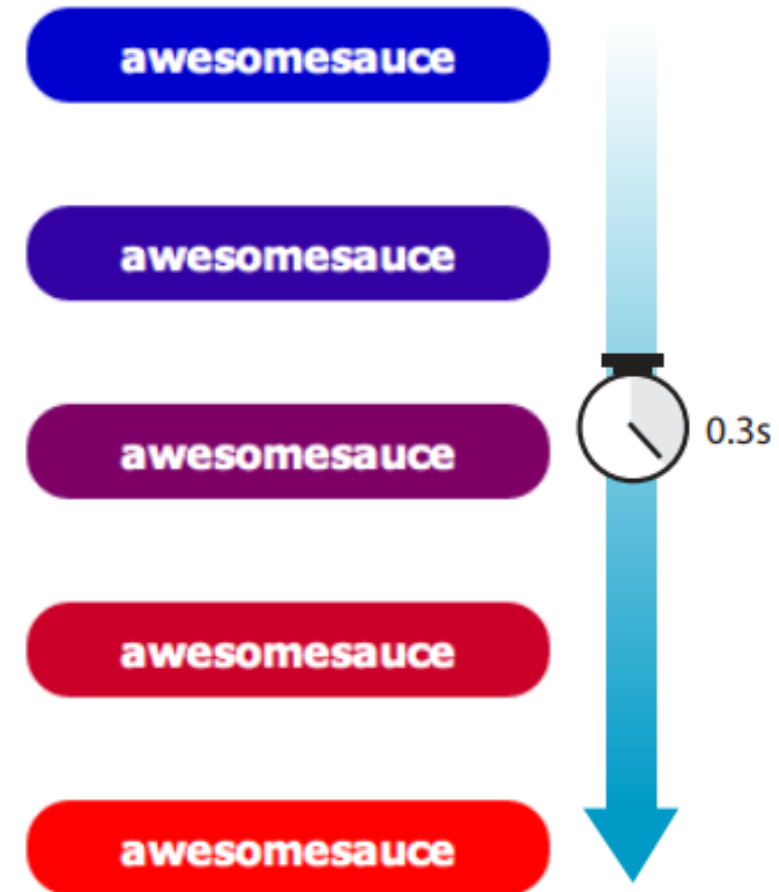
CSS Animation Transition

THE MARKUP

```html
<a href="…" class="smooth">awesomesauce</a>
```

THE STYLES

```css
.smooth {
  display: block;
  text-decoration:none;
  text-align: center;
  padding: 1em 2em;
  width: 10em;
  border-radius: 1.5em;
  color: #fff;
  background-color: mediumblue;
  transition-property: background-color;
  transition-duration: 0.3s;
}
.smooth:hover, .smooth:focus {
  background-color: red;
}
```

CSS Transition Attribute

transition-timing-function

Values:	ease | linear | ease-in | ease-out | ease-in-out | step-start | step-end | steps | cubic-bezier(#,#,#,#)
Default:	ease
Applies to:	all elements, `:before` and `:after` pseudo-elements

```
.smooth {
    …
    transition-property: background-color;
    transition-duration: 0.3s;
    transition-timing-function: ease-in-out;
}
```

transition-duration

Values:	*time*
Default:	0s
Applies to:	all elements, `:before` and `:after` pseudo-elements
Inherits:	no

transition-property

Values:	*property-name* | all | none
Default:	all
Applies to:	all elements, `:before` and `:after` pseudo-elements
Inherits:	no

CSS Animation Properties

Backgrounds

background-color

background-position

Borders and outlines

border-bottom-color

border-bottom-width

border-left-color

border-left-width

border-right-color

border-right-width

border-top-color

border-top-width

border-spacing

outline-color

outline-width

Color and opacity

color

opacity

visibility

Font and text

font-size

font-weight

letter-spacing

line-height

text-indent

text-shadow

word-spacing

vertical-align

CSS Animation Properties

Element box measurements

height

width

max-height

max-width

min-height

min-width

margin-bottom

margin-left

margin-top

padding-bottom

padding-left

padding-right

padding-top

Position

top

right

bottom

left

z-index

clip-path

transform

transform-origin

CSS Grid Track

Digunakan memutar, memindahkan, mengubah ukuran, memiringkan

elemen HTML pada 2D atau 3D

```
transform

Values:        rotate()|rotateX()|rotateY()|rotateZ()|rotate3d()|
               translate()|translateX()|translateY()|scale()|scaleX()|
               scaleY()|skew()|skewX()|skewY()|none

Default:       none

Applies to:    transformable elements (see sidebar)

Inherits:      no
```

```
img {
    width: 400px;
    height: 300px;
    transform: rotate(-10deg);
}
```

rotate()   translate()   scale()   skew()

CSS Transform

```
img {
    width: 400px;
    height: 300px;
    transform: rotate(-10deg);
}
```

transform: rotate(-10deg);

transform-origin: center top;

transform-origin: 100% 100%;

transform-origin: 400px 0;

transform: translate(90px, 60px);

transform: translate(-5%, -25%);

CSS Transform Scale

```
a img {
    transform: scale(2, .5);
}
```

transform: scale(1.25);

transform: scale(.75);

transform: scale(1.5, .5);

CSS Transform Skew

```css
a img {
  transform: skewX(15deg);
}

a img {
  transform: skewY(30deg);
}

a img {
  transform: skew(15deg, 30deg);
}
```


transform: skewX(15deg);

transform: skew(15deg, 30deg);

transform: skewY(30deg);

CSS Multiple Transform

```
transform: function(value) function(value);

img:hover, img:focus {
  transform: scale(1.5) rotate(-5deg) translate(50px,30px);
}
```

Normal state

:hover, :focus
rotate(), translate(), and scale() applied

CSS 3D Transform

```html
<ul>
  <li><a href=""><img src="anchovies.jpg" id="img1" alt=""></a></li>
  <li><a href=""><img src="jellyfish1.jpg" id="img2" alt=""></a></li>
  <li><a href=""><img src="bluejellyfish.jpg" id="img3" alt=""></a>
  </li>
  <li><a href=""><img src="seadragon.jpg" id="img4" alt=""></a></li>
</ul>
```
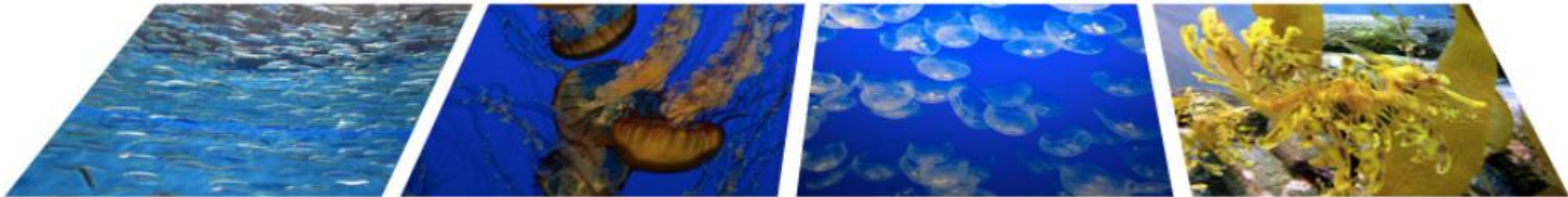
```css
ul {
  width: 1000px;
  height: 100px;
  list-style-type: none;
  padding: 0;
  margin: 0;
  perspective: 600;
}
```

CSS 3D Transform

```html
<ul>
  <li><a href=""><img src="anchovies.jpg" id="img1" alt=""></a></li>
  <li><a href=""><img src="jellyfish1.jpg" id="img2" alt=""></a></li>
  <li><a href=""><img src="bluejellyfish.jpg" id="img3" alt=""></a>
  </li>
  <li><a href=""><img src="seadragon.jpg" id="img4" alt=""></a></li>
</ul>
```

```css
li {
  float: left;
  margin-right: 10px;
  transform: rotateX(45deg);
}
```

CSS Animasi Dropdown Menu

```html
1  <ul class="menu">
2      <li>
3        <a href="#">Parent Link</a>
4
5        <ul>
6          <li><a href="#">Child Link</a></li>
7          <li><a href="#">Child Link</a></li>
8          <li><a href="#">Child Link</a></li>
9          <li><a href="#">Child Link</a></li>
10       </ul>
11     </li>
12   </ul>
```

```css
1  .menu {
2      display: block;
3      margin: 0 auto;
4      position: relative;
5      width: 200px;
6  }
7
8  .menu > li > a {
9      background: blue;
10     color: #fff;
11     display: block;
12     padding: 10px 20px;
13     text-align: center;
14     text-decoration: none;
15 }
16
```

```css
17 .menu ul {
18     background: #ddd;
19     height: 0;
20     left: 0;
21     opacity: 0;
22     position: absolute;
23     transition: all .5s ease;
24     top: 35px;
25     width: 100%;
26 }
27
28 .menu li:hover ul {
29     height: 200px;
30     opacity: 1;
31     transform: translateY(0);
32 }
33
34 .menu ul a {
35     color: #000;
36     display: block;
37     padding: 5px 20px;
38 }
```

Tugas Web Dev

Buatlah website yang mengandung semua animasi yang telah di pelajari