



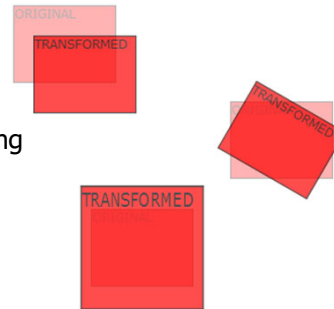
Web development CSS

Transform

2D Transform (https://www.w3schools.com/css/css3_2dtransforms.asp)

```
div {  
  transform: ...  
}
```

- `translate()`: verplaatsen in x- en y-richting
- `rotate()`: verdraaien
- `scale()`: vergroten/verkleinen in x- en y-richting
- `skewX()`: horizontaal schuin trekken
- `skewY()`: verticaal schuin trekken
- `matrix()`: combinatie van bovenstaande
- `transform-origin: x-richting y-richting` (default 50% 50%, middelpunt)



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Web development CSS

Transform

3D Transform (https://www.w3schools.com/css/css3_3dtransforms.asp)

```
div {  
  transform: ...  
}
```

- `rotateX()`: draaien rond de x-as
- `rotateY()`: draaien rond de y-as
- `rotateZ()`: draaien rond de z-as
- ...



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Web development CSS

Transition

Transition (https://www.w3schools.com/css/css3_transitions.asp)

```
div {  
  width: 100px;  
  height: 100px;  
  background: red;  
  transition: width 2s 0.5s linear;  
}
```

```
div:hover {  
  width: 300px;  
}
```

- **transition-property**: CSS eigenschap welke een overgang zal ondergaan
- **transition-duration**: Duur van de overgang
- **transition-delay**: Tijd voordat overgang start
- **transition-timing-function**: snelheids verdeling van overgang
(vb. **ease**, **linear**, **ease-in**, **ease-out**,...)

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Web development CSS

Animation

Animation keyframe (https://www.w3schools.com/css/css3_animations.asp)

```
@keyframes example {  
  from {background-color: red;  
  to {background-color: yellow;}  
}
```

```
@keyframes example {  
  0% {background-color: red;}  
  25% {background-color: yellow;}  
  50% {background-color: blue;}  
  100% {background-color: green;}  
}}
```

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Web development CSS

Animation

Animation keyframe (https://www.w3schools.com/css/css3_animations.asp)

```
@keyframes example {
  from {background-color: red;
  to {background-color: yellow;}
}

@keyframes schommelen {
  0%   {transform: rotate(0deg);}
  25%  {transform: rotate(10deg);}
  50%  {transform: rotate(0deg);}
  75%  {transform: rotate(-10deg);}
  100% {transform: rotate(0deg);}
}}
```

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Web development CSS

Animation

Animation (https://www.w3schools.com/css/css3_animations.asp)

```
div {
  animation: example 5s infinite;
}
```

- **animation-name**: naam van de keyframe animatie
- **animation-duration**: duur van de animatie
- **animation-delay**: tijd voordat animatie start
- **animation-timing-function**: snelheid van de animatie (*ease*, *linear*, ...)
- **animation-iteration-count**: hoe vaak wordt de animatie afgespeeld (getal / *infinite*)
- **animation-direction**: richting van de animatie (*alternate*, *reverse*, ...)
- **animation-fill-mode**: opmaak van element na afloop of delay(*forwards*,*backwards*,...)
- **animation-play-state**: is animatie *paused* of *running*

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