# CSS Animation

## psudoclass

* **“:hover**” : react when user pointing at the component specified
* **“:focus”** : triggered the state of object focus.(focus by tab the webpage until focus on component or click the object)
* **“:active”**: triggered when element activated by user (Ex. The active element will be triggered by hold the click on that element)

## Transform

* Let you manipulate space of CSS formatting model (move, warp, rotate, scale)
* **“translate”**: shift element across the screen using x and y (transform:translateX(10px), transform:translateY(10px), translate(20px, 20px))
* **“scale”**: increase or decrease size of element(transform:scale(2), transform:scaleX(2), transform:scaleY(2), transform:scale(2,0.5))
* **“transform-origin”**: change in initial origin point (transform-origin: 0 0; transform-origin: left;) this will specify the point or direction where the scale will not change. Read more: <https://developer.mozilla.org/en-US/docs/Web/CSS/transform-origin>
* **“Rotate”**: rotate element on page (transform: rotate(45deg))
* **Let more at** : <https://developer.mozilla.org/en-US/docs/Web/CSS/transform>
* To apply multiple scale feature, include “transform:” only once before function (transform: scale(2) rotate(45deg))

## Extra: Vendor prrfix

* This is the syntax need to be added in the css code in order to make the style-sheet work on every browser. More info: <https://developer.mozilla.org/en-US/docs/Glossary/Vendor_Prefix>
* To make it easier, use autoprefixer or sublime prefixer

## Transition

* Transition allow to control animation speed when changing CSS
* **Transition-duration :** how long transition should last (transition-duration:1s, transition-duration:1s,2s [this is for multiple property duration specification])
* **Transition-property**: what property should be transitioned?(transition-property: background, transition-property: background,border)
* **Transition**-**delay:** specify the time before transition start (transition-delay: 2ms, transition-delay: 2ms,3ms[this is for multiple property duration specification])
* **Transition-timing-function** : control acceleration of animation. More info: <https://developer.mozilla.org/en-US/docs/Web/CSS/transition-timing-function>

**Ex.** transition-timing-function: ease

* All property can be combine into 1 command (transition: background 1.5s ease-in 1;)
* **What should be transition:** transform:translate() ,transform:rotate() ,transform:scale() ,opacity (does not affect browser render speed for website)