CSS3 2D/3D Transforms Properties

(1) scale()

(2) skew()

(3) rotate()

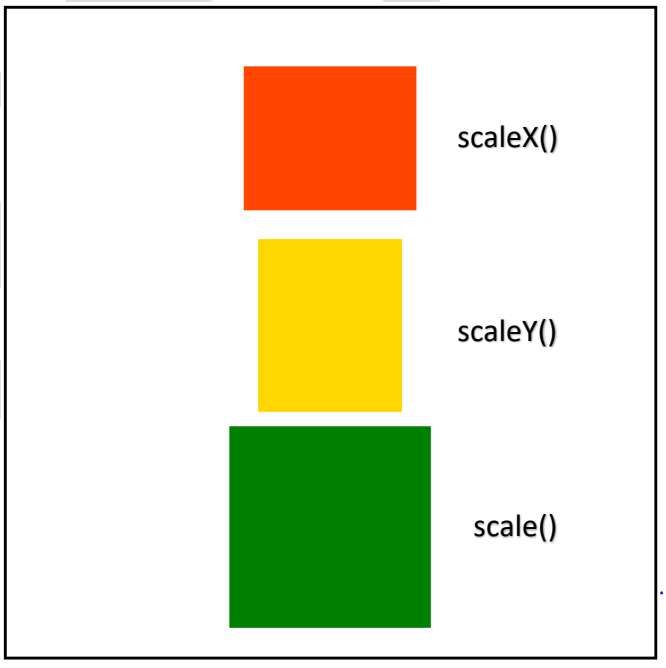
(4) translate()

1. Scale :

➢ The scale() method increases or decreases the size of an element .

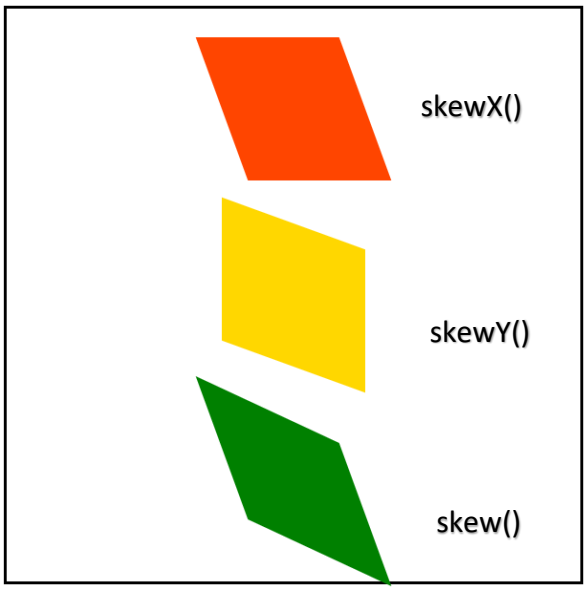
- **Syntax :**

transform : scale(x,y) | scaleX(x) | scaleY(y) ;



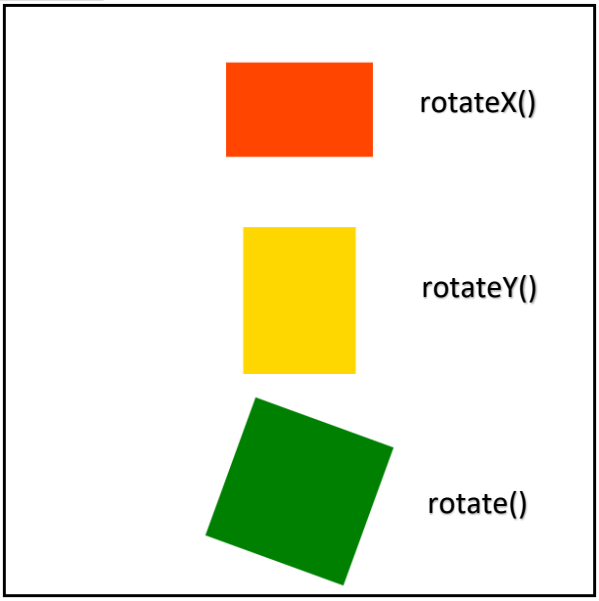
2. **Skew :**
   - The skew() method skews an element along the X-axis and Y-axis by the given angle.
     - **Syntax :**

transform : skew(x,y) | skewX(x) | skewY(y) ;



3. **Rotate :**
   - The rotate() method rotates an element clockwise or counter-clockwise according to a given degree.
     - **Syntax :**

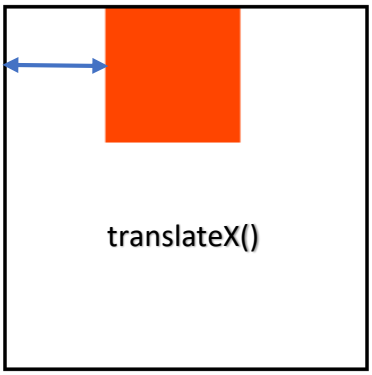
transform : rotate(deg) | rotateX(deg) | rotateY(deg) ;

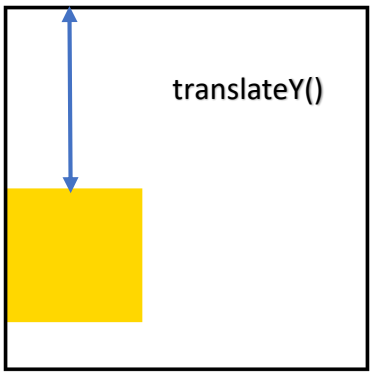


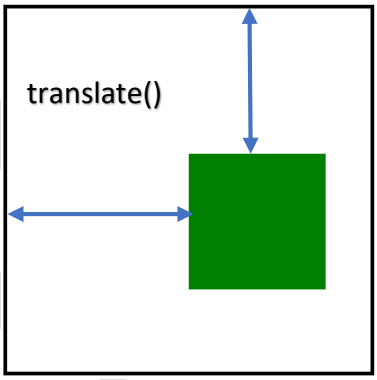
4. Translate :

- The translate() method moves an element from its current position (according to the parameters given for the X-axis and the Y-axis).
  - **Syntax :**

transform : translate(x,y) | translateX(x) | translateY(y) ;







CSS transform-origin Property

- The transform-origin property allows you to change the position of transformed elements.
- 2D transformations can change the x- and y-axis of an element. 3D transformations can also change the z-axis of an element.
- Note: This property must be used together with the transform property.
- **Syntax:**

```
transform-origin: x-axis  y-axis;
```

Property Value	Description
x-axis	Defines where the view is placed at the x-axis. Possible values: • Left | center | right | length | %
y-axis	Defines where the view is placed at the y-axis. Possible values: • top | center | bottom | length | %

CSS3 Transition Properties

Transition :

- To create a transition effect, you must specify two things:
  - the CSS property you want to add an effect to
  - the duration of the effect

- **Syntax:**

  transition : property | duration | timing-function | delay

(1) Transition-duration :

The transition-duration property specifies how many seconds(s) a transition effects takes to complate.

- **Syntax :**

  transition-duration : time ;

(2) Transition-delay :

The transition-delay property specifies when the transition effect will start.

The transition-delay value is defined in seconds (s).

- **Syntax :**

  transition-delay : time ;

(3) Transition-timing-function :

- The transition-timing-function property specifies the speed curve of the transition effect.
  - **Syntax :**

    transition-timing-function : linear | ease | ease-in | ease-out ease-in-out | cubic-bezier

  - Link :
    - https://www.joshwcomeau.com/animation/css-transitions/
    - https://cubic-bezier.com/#.17,.67,.83,.67

(4) Transition-property :

- The transition-property property specifies the name of the CSS property.
  - Syntax :

    transition-property : property-name ;