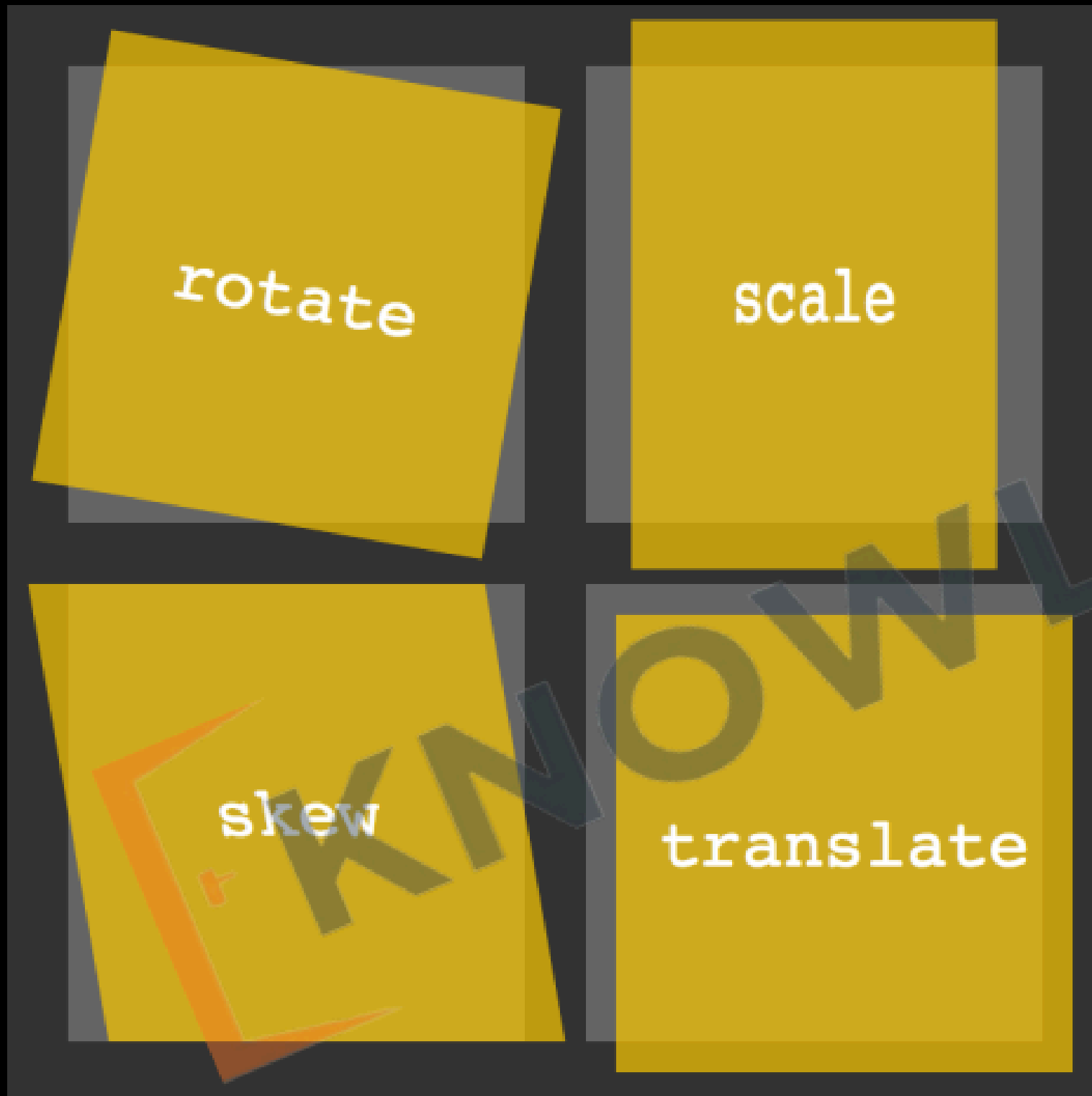


41. CSS Transform



- Allows modification of an element's shape and position.
- Can perform operations like **rotate**, **scale**, and **translate**.
- Does not affect the layout of surrounding elements.
- Used to create visual effects like **3D** space transformations.
- Implemented with functions like **rotate()**, **scale()**, and **translate()**.

41. CSS Transform (Rotate)

```
.box {  
  height: 50px;  
  width: 50px;  
  padding: 5px;  
  margin: 20px;  
  border: 1px solid black;  
  border-radius: 5px;  
  transition-property: all;  
  transition-duration: 1s;  
  transition-timing-function: ease-in-out;  
}  
#box1 { background-color: lime;}  
#box1:hover { transform: rotate(45deg); }  
#box2 { background-color: blueviolet;}  
#box2:hover { transform: rotate(180deg); }  
#box3 { background-color: indianred;}  
#box3:hover { transform: rotate(45deg); }  
#box4 { background-color: violet;}  
#box4:hover { transform: rotate(45deg); }
```

45 deg

180 deg

x 45
deg

y 45
deg

- Rotates an element around a fixed point.
- Defined using the rotate() function within the transform property.
- Default rotation point is the element's center.

41. CSS Transform (Scale)

```
.box {  
  height: 50px;  
  width: 50px;  
  padding: 5px;  
  margin: 50px;  
  border: 1px solid black;  
  border-radius: 5px;  
  transition-property: all;  
  transition-duration: 1s;  
  transition-timing-function: ease-in-out;  
}  
#box1 { background-color: lime;}  
#box1:hover { transform: scale(2); }  
#box2 { background-color: blueviolet;}  
#box2:hover { transform: scale(4); }  
#box3 { background-color: indianred;}  
#box3:hover { transform: scalex(2); }  
#box4 { background-color: violet;}  
#box4:hover { transform: scaley(3); }
```

Scale
Twice

Scale 4
times

Scale
X
Twice

Scale Y
Twice

41. CSS Transform (Translate)

```
.box {  
  height: 75px;  
  width: 75px;  
  padding: 5px;  
  margin: 50px;  
  border: 1px solid black;  
  border-radius: 5px;  
  transition-property: all;  
  transition-duration: 1s;  
  transition-timing-function: ease-in-out;  
}  
  
#box1 { background-color: lime;}  
#box1:hover { transform: translate(50px); }  
#box2 { background-color: blueviolet;}  
#box2:hover { transform: translate(50px, 50px); }  
#box3 { background-color: indianred;}  
#box3:hover { transform: translateX(50px); }  
#box4 { background-color: violet;}  
#box4:hover { transform: translateY(50px); }
```

Translate
50px

Translate
50px, 50px

Translate X
50px

Translate Y
50px

41. CSS Transform (Skew)

```
.box {  
  display: inline-block;  
  height: 75px;  
  width: 75px;  
  padding: 5px;  
  margin: 50px;  
  border: 1px solid black;  
  border-radius: 5px;  
  transition-property: all;  
  transition-duration: 1s;  
  transition-timing-function: ease-in-out;  
}  
  
#box1 { background-color: lime;}  
#box1:hover { transform: skew(45deg); }  
#box2 { background-color: blueviolet;}  
#box2:hover { transform: skew(90deg); }
```

