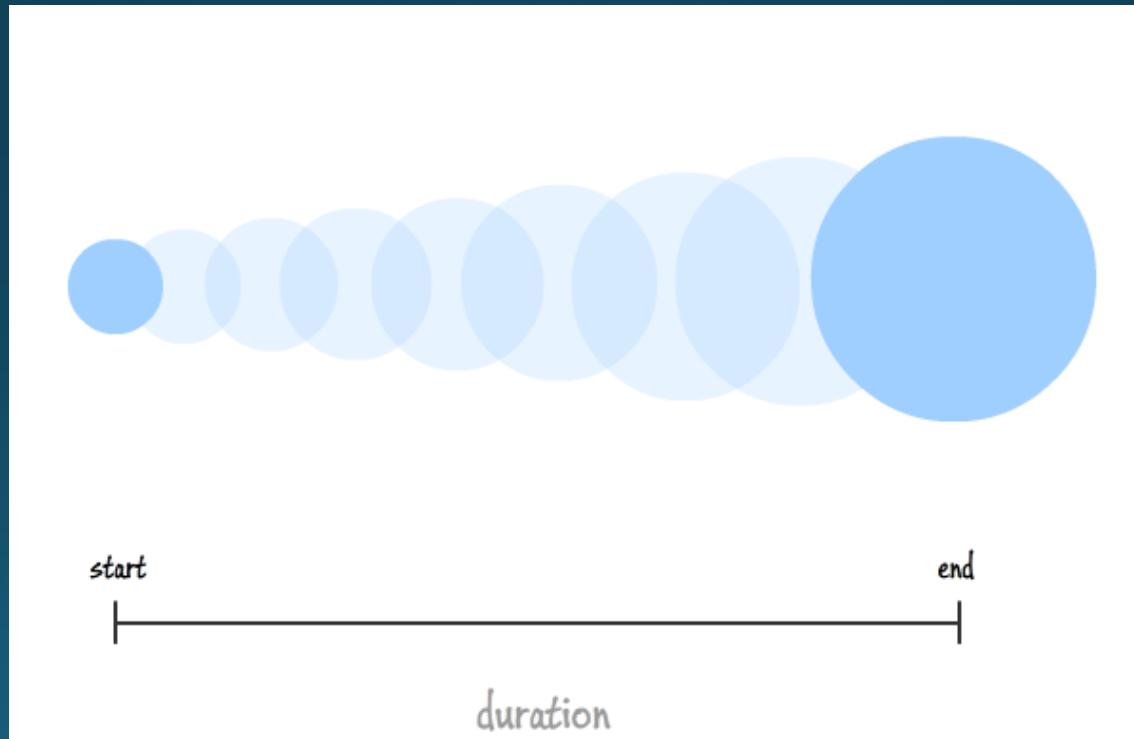


Designing, Defining, and Triggering CSS3 Transitions

by Michael Wiltbank

CSS3 Transitions

Process of changing from one state to another



Setting it up

```
cssTag {  
  [property] : [measurement]  
  transition: ...  
}
```

```
cssTag:trigger {  
  [property] : [updated measurement]  
}
```

Syntax

CSS

div{

Transition-property: *css property*

Transition-duration: *time (seconds.milliseconds)*

Transition-timing-function: linear | ease | ease-in | ease-out...

transition-delay: *time (seconds.milliseconds)*

}

shorthand

div {

transition: [property] [duration] [timing-function] [delay];

}

-moz-transition: ... -> Firefox
-webkit-transition: ... -> Safari and Chrome
-o-transition:... -> Opera
-ms-transition:... -> Internet Explore

duration and delay

done in seconds and milliseconds

2.3s

timing-function

- ease (default)
- linear
- ease-in
- ease-out
- ease-in-out
- cubic-bezier(n,n,n,n)

Triggers

- :hover
- :focus
- :checked
- :disabled
- Javascript options like toggling, hiding, and effecting the CSS disabled

Simple example

```
div {  
    width : 200px;  
    transition: [property] [duration] [timing-function] [delay];  
}
```

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

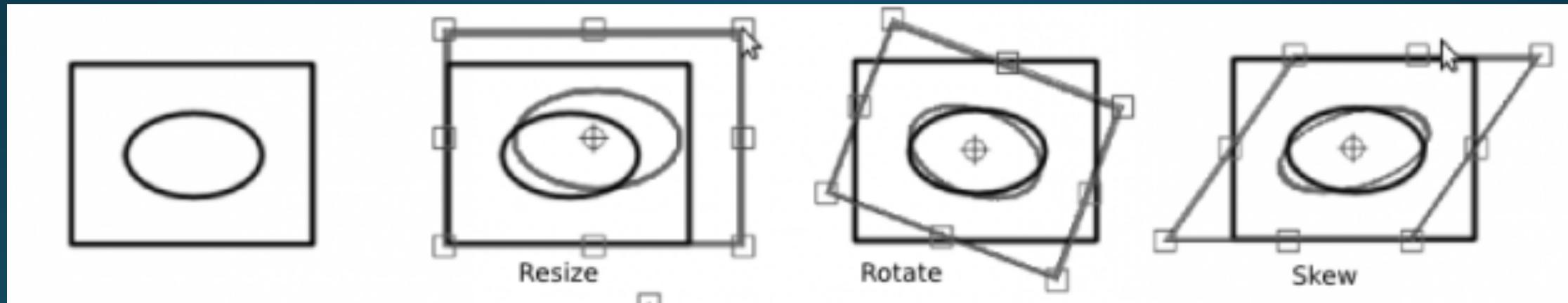
Designing, Defining, and Triggering CSS3 Transforms

by Michael Wiltbank

CSS3 Transforms

Process of changing an element's shape, size and position.

- * Translate
- * Rotate
- * Scale
- * Skew



Types of Transforms

`transform: translate(100px,75px); (x-axis, y-axis)`

`transform: rotate(-25deg); (also rotateX, rotateY, and rotateZ)`

`transform: scale(1.5, 2); (width, height)`

`transform: skew(15deg, 25deg); (also skewX and skewY)`

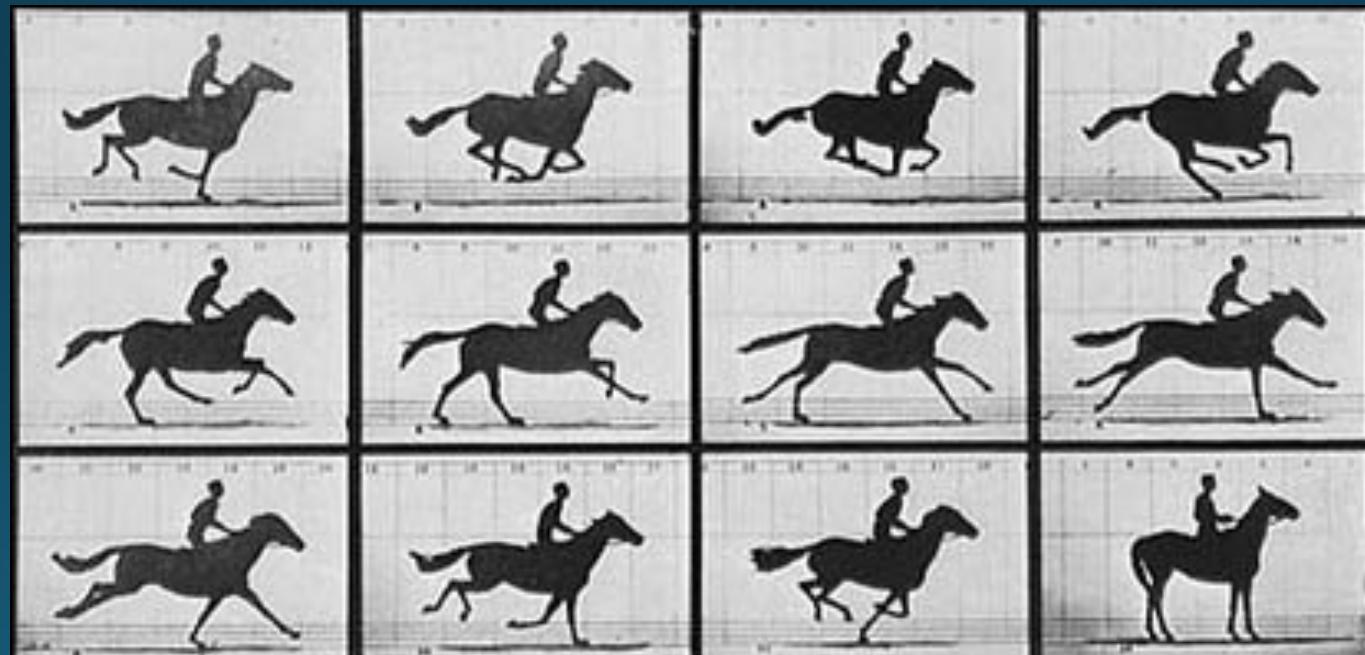
`transform: matrix(scaleX(),skewY(),skewX(),scaleY(),translateX(),translateY())`

Designing, Defining, and Triggering CSS3 Animations

by Michael Wiltbank

CSS3 Animations

Animations are similar to transitions but can have more than two states of change.



Syntax

CSS

-moz-transition: ... → Firefox
-webkit-transition: ... → Safari and Chrome
-o-transition:... → Opera
-ms-transition:... → Internet Explore

animation-name: *name for @keyframes*

animation-duration: *time (seconds.milliseconds)*

animation-timing-function: linear | ease | ease-in | ease-out...

animation-delay: *time (seconds.milliseconds)*

animation-iteration-count: *number (also can put infinite)*

Animation-direction: normal | reverse | alternate | alternate-reverse

Animation-fill-mode: none | forwards | backwards | both

Animation-play-state: paused | running

timing-function

- ease (default)
- linear
- ease-in
- ease-out
- ease-in-out
- step-start
- step-end
- steps(int, start | end)
- cubic-bezier (n, n, n, n)