

CSS Transitions + Animations

ZOMG THE FUTURE!!



CSS Transitions

```
a {  
  color: #36c;  
}  
  
a:hover {  
  color: #f60;  
}
```

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```
a {  
  color: #36c;  
  transition: 0.5s;  
}  
  
a:hover {  
  color: #f60;  
}
```

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```
a {  
  color: #36c;  
  transition-duration: 0.5s;  
}  
  
a:hover {  
  color: #f60;  
}
```

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```
/* Additional controls */  
transition-delay: 0.5s;  
transition-duration: 1s;  
transition-property: opacity;  
transition-timing-function: ease-out;
```

```
/* Additional controls */  
transition-delay: 0.5s;  
transition-duration: 1s;  
transition-property: opacity;  
transition-timing-function: ease-out;
```

```
/* Equivalent to */  
transition: opacity 1s ease-out 0.5s;
```



```
/* Additional controls */  
transition-delay: 0.5s;  
transition-duration: 1s;  
transition-property: opacity;  
transition-timing-function: ease-out;
```

```
/* Equivalent to */  
transition: opacity 1s ease-out 0.5s;
```

```
/* Defaults */  
transition: all 0 ease 0;
```

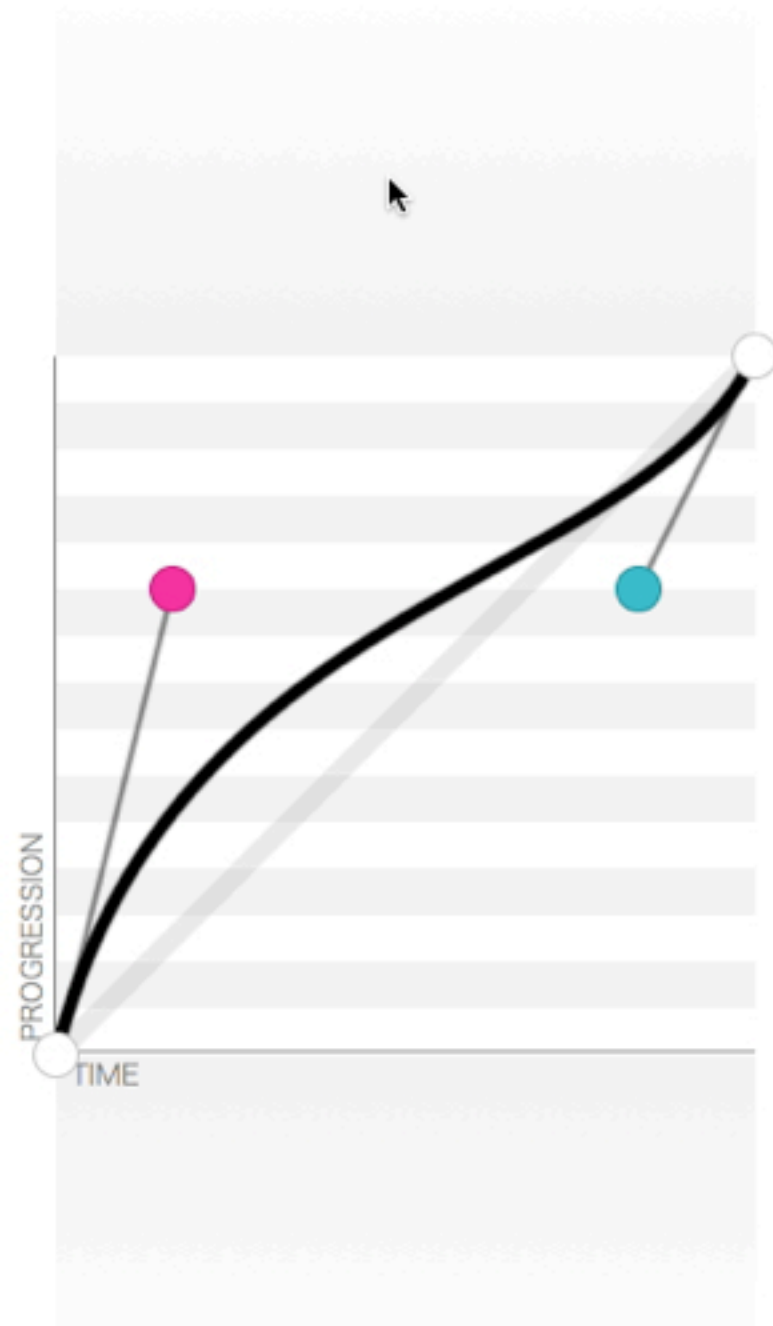
```
/* Controlling the animation */  
transition-timing-function: linear;  
transition-timing-function: ease;  
transition-timing-function: ease-in;  
transition-timing-function: ease-out;  
transition-timing-function: ease-in-out;  
transition-timing-function: cubic-bezier(a,b,c,d);
```

cubic-bezier.com

cubic-bezier(.17, .67, .83, .67) SAVE

Preview & compare GO!

Duration: 1 second



Library IMPORT EXPORT

Click on a curve to compare it with the current one.



ease



linear



ease-in



ease-out



ease-in-out

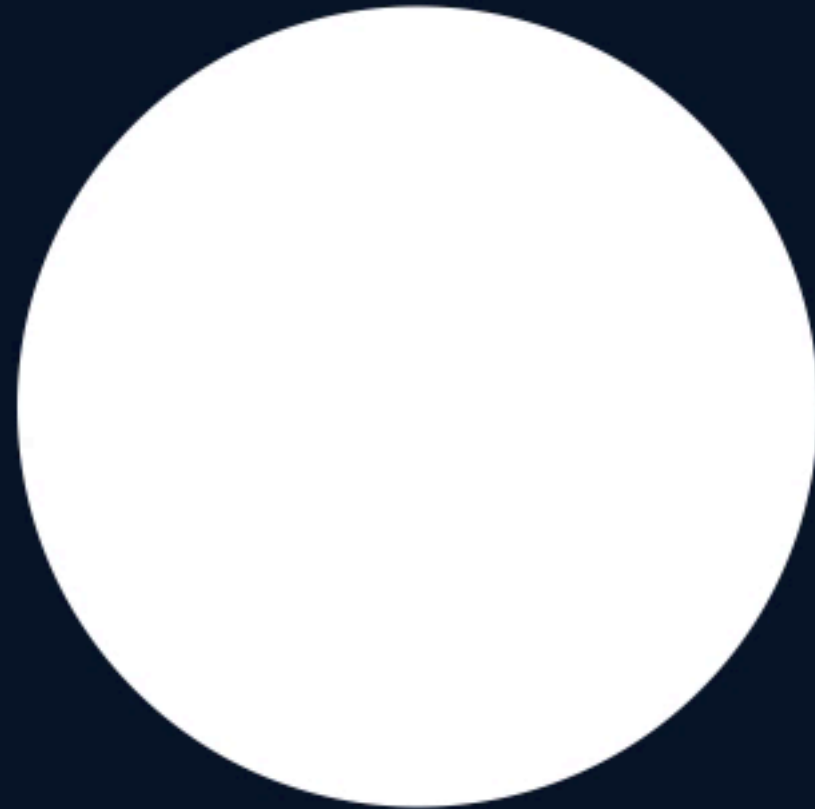
Tip: Right click on any library curve and select "Copy Link Address" to get a permalink to it which you can share with others

CSS Animations

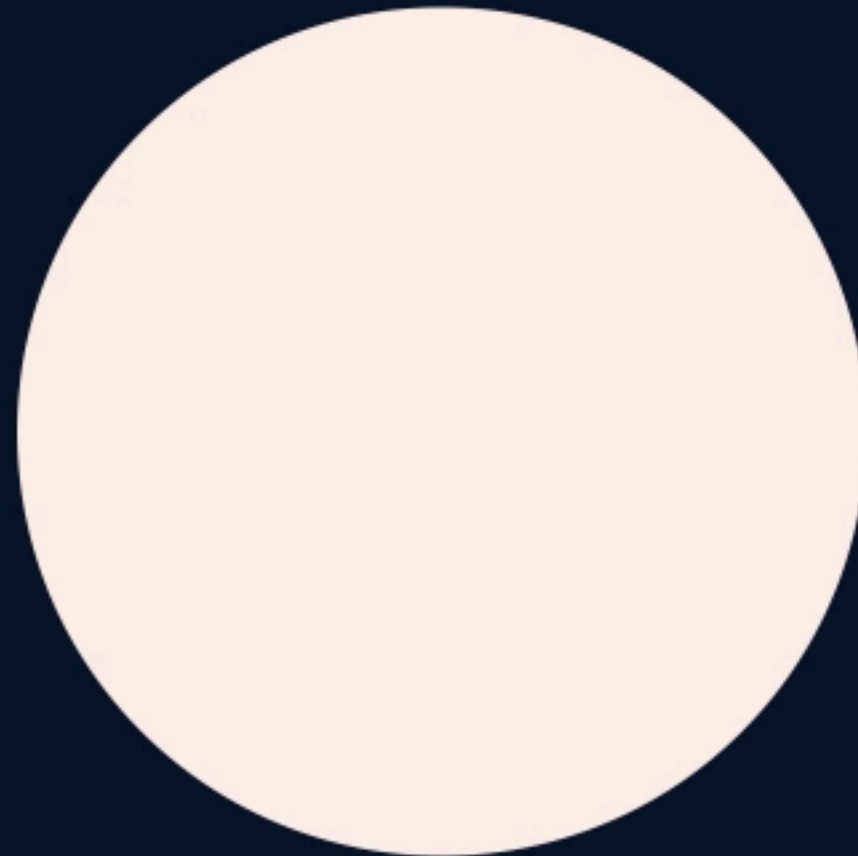
```
#foo {  
  position: absolute;  
  left: 50%;  
  top: 50%;  
  transition: 1s;  
  background: #fff;  
  width: 300px;  
  height: 300px;  
  margin: -150px -150px;  
  border-radius: 150px;  
}  
  
#foo:hover {  
  background: #f30;  
  width: 500px;  
  height: 500px;  
  margin: -250px -250px;  
  border-radius: 250px;  
}
```



```
@keyframes grow {  
  from {  
    background: #fff;  
    width: 300px;  
    height: 300px;  
    margin: -150px -150px;  
    border-radius: 150px;  
  }  
  to {  
    background: #f30;  
    width: 500px;  
    height: 500px;  
    margin: -250px -250px;  
    border-radius: 250px;  
  }  
}  
  
#foo {  
  position: absolute;  
  top: 50%;  
  left: 50%;  
  background: #fff;  
  width: 300px;  
  height: 300px;  
  margin: -150px -150px;  
  border-radius: 150px;  
  animation: grow 1s;  
}
```



```
@keyframes grow {  
  from {  
    background: #fff;  
    width: 300px;  
    height: 300px;  
    margin: -150px -150px;  
    border-radius: 150px;  
  }  
  to {  
    background: #f30;  
    width: 500px;  
    height: 500px;  
    margin: -250px -250px;  
    border-radius: 250px;  
  }  
}  
  
#foo {  
  position: absolute;  
  top: 50%;  
  left: 50%;  
  background: #fff;  
  width: 300px;  
  height: 300px;  
  margin: -150px -150px;  
  border-radius: 150px;  
  animation: grow infinite 1s;  
}
```




```
@keyframes grow {  
  from {  
    background: #fff;  
    width: 300px;  
    height: 300px;  
    margin: -150px -150px;  
    border-radius: 150px;  
  }  
  to {  
    background: #f30;  
    width: 500px;  
    height: 500px;  
    margin: -250px -250px;  
    border-radius: 250px;  
  }  
}  
  
#foo {  
  position: absolute;  
  top: 50%;  
  left: 50%;  
  background: #fff;  
  width: 300px;  
  height: 300px;  
  margin: -150px -150px;  
  border-radius: 150px;  
  animation: grow infinite alternate 1s;  
}
```



```
@keyframes beat {  
  0% { background: #fff;  
        width: 300px; height: 300px;  
        margin: -150px -150px;  
        border-radius: 150px; }  
  20% { background: #f30;  
        width: 500px;  
        height: 500px;  
        margin: -250px -250px;  
        border-radius: 250px; }  
  40% { background: #fff;  
        width: 400px; height: 400px;  
        margin: -200px -200px;  
        border-radius: 200px; }  
  60% { background: #f30;  
        width: 500px;  
        height: 500px;  
        margin: -250px -250px;  
        border-radius: 250px; }  
  80% { background: #fff;  
        width: 300px; height: 300px;  
        margin: -150px -150px;  
        border-radius: 150px; }  
  100% { background: #fff;  
        width: 300px; height: 300px;  
        margin: -150px -150px;  
        border-radius: 150px; }  
}
```



Resources

[W3Schools: transition](#)

[W3Schools: animation](#)

[CSS3 Animations vs. Transitions](#)

[cubic-bezier.com](#)