

Getting creative with **KEYFRAMES**

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Who am I?

I'm an experienced web developer, doing mainly front-end, specializing in CSS, animations, and creative coding.

I have a pathological curiosity about new technologies, I'm eager to learn new things, and always ready for a new challenge.

Working as a front-end developer at **Wix**



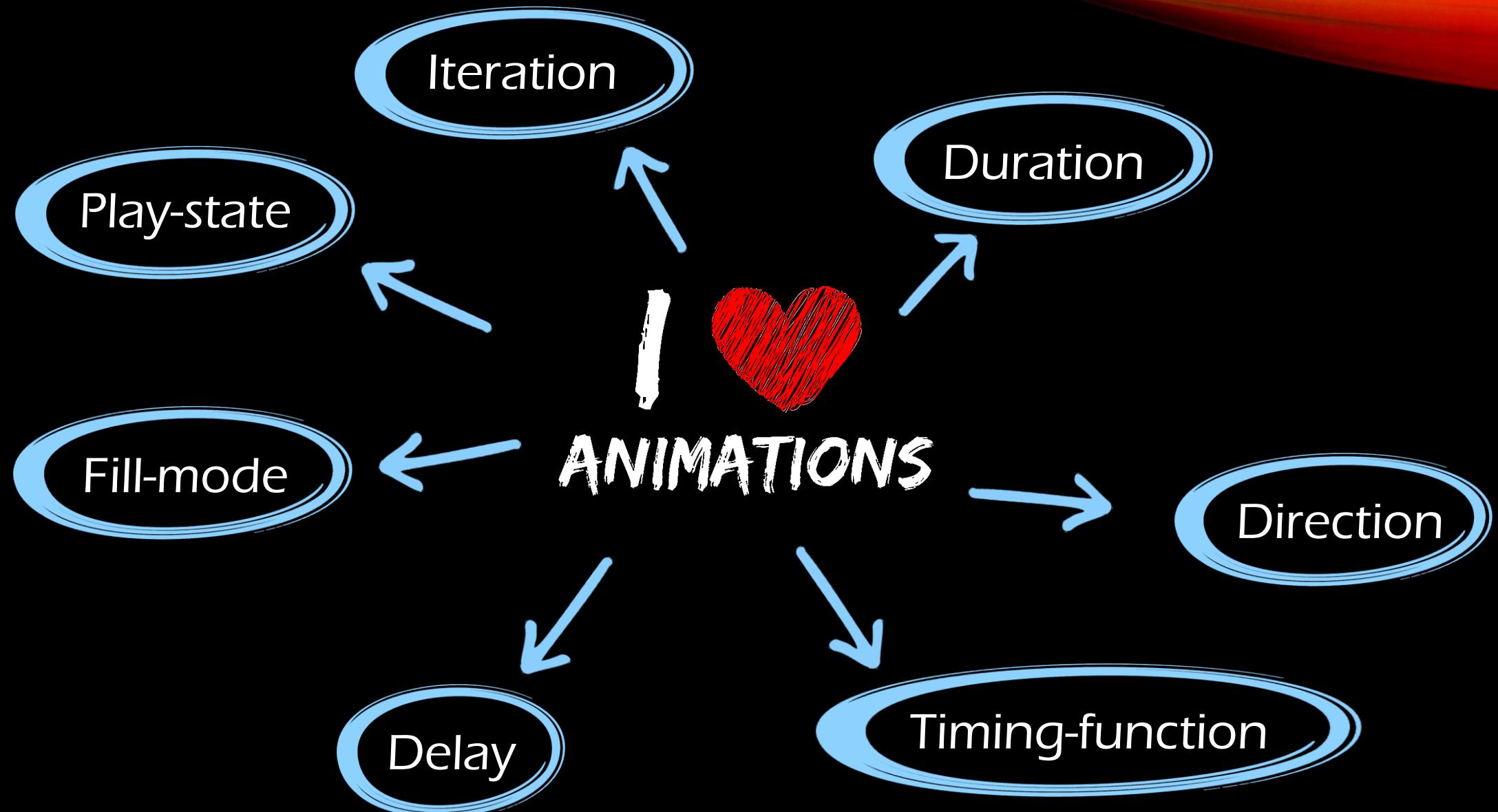
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Keyframes

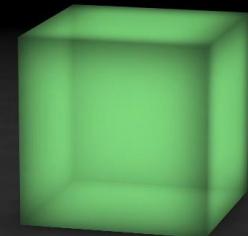
Controls the intermediate steps in a CSS animation sequence by defining styles for keyframes (or waypoints) along the animation sequence. [\(from MDN\)](#)

```
@keyframes name {  
    key { frame }  
    key { frame }  
    key { frame }  
}
```



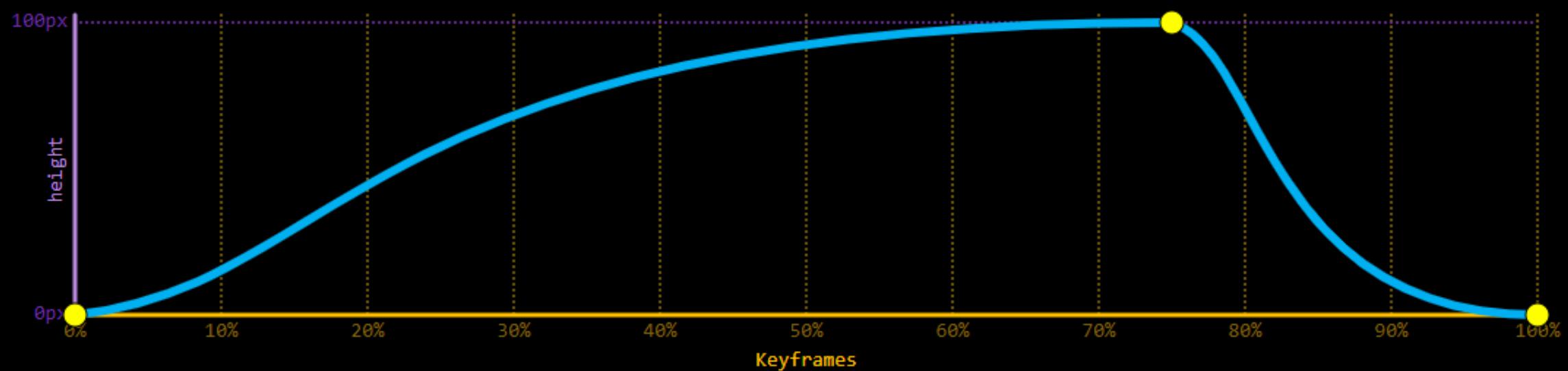
```
animation: cubeHeight 3s infinite;
```

```
@keyframes cubeHeight {  
    ??? { ??? }  
}
```



```
animation: cubeHeight 3s infinite;
```

```
@keyframes cubeHeight {  
 0% { height: 0; }  
 75% { height: 100px; }  
 100% { height: 0; }  
}
```



Timing functions

- Ease-in

Cubic value: 0.42, 0, 1.0, 1.0



- Ease-out

Cubic value: 0, 0, 0.58, 1.0



- Ease-in-out

Cubic value: 0.42, 0, 0.58, 1.0



- Ease

Cubic value 0.25, 0.1, 0.25, 1.0



Timing functions

- Linear
(Just a straight line)



- Steps
(No transition)

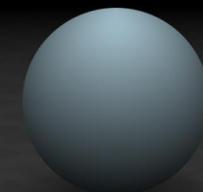


- Cubic-bezier
(Do what you want)



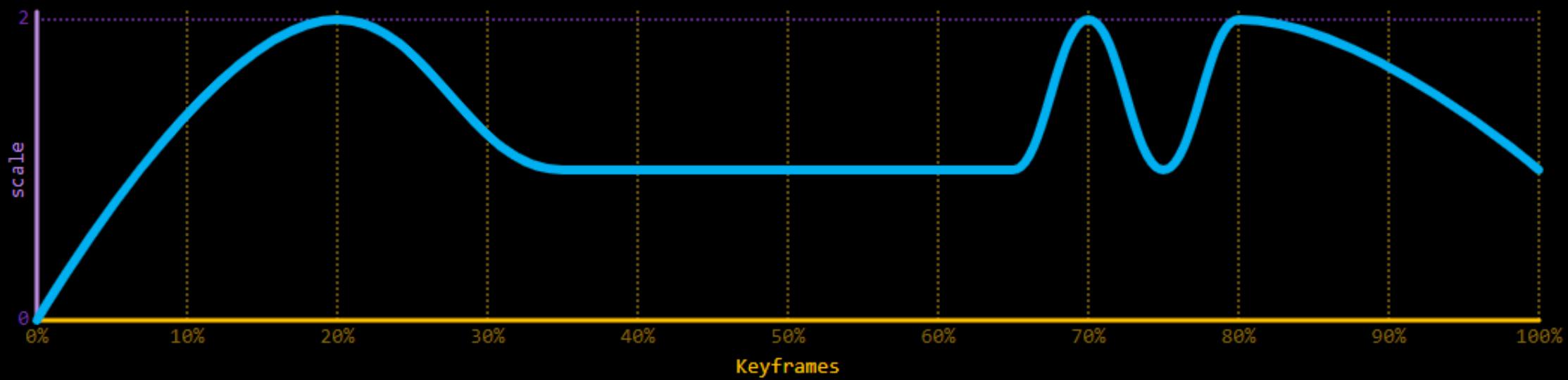
Check out <https://cubic-bezier.com>

```
animation-name: ballScale;  
  
@keyframes ballScale {  
    ??? { ??? }  
}
```



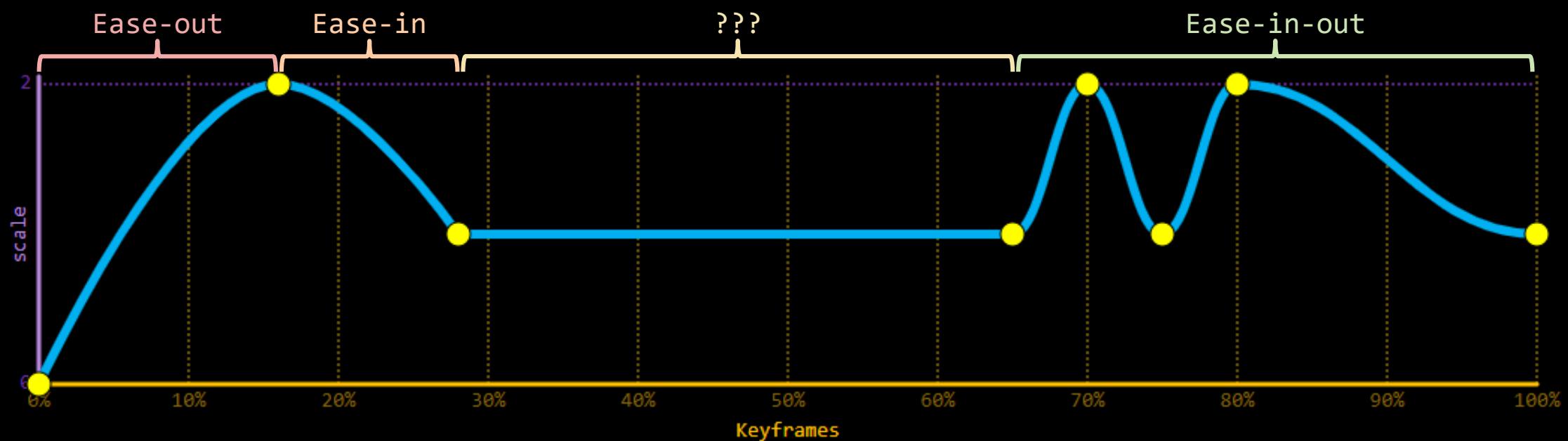
```
animation-name: ballScale;
```

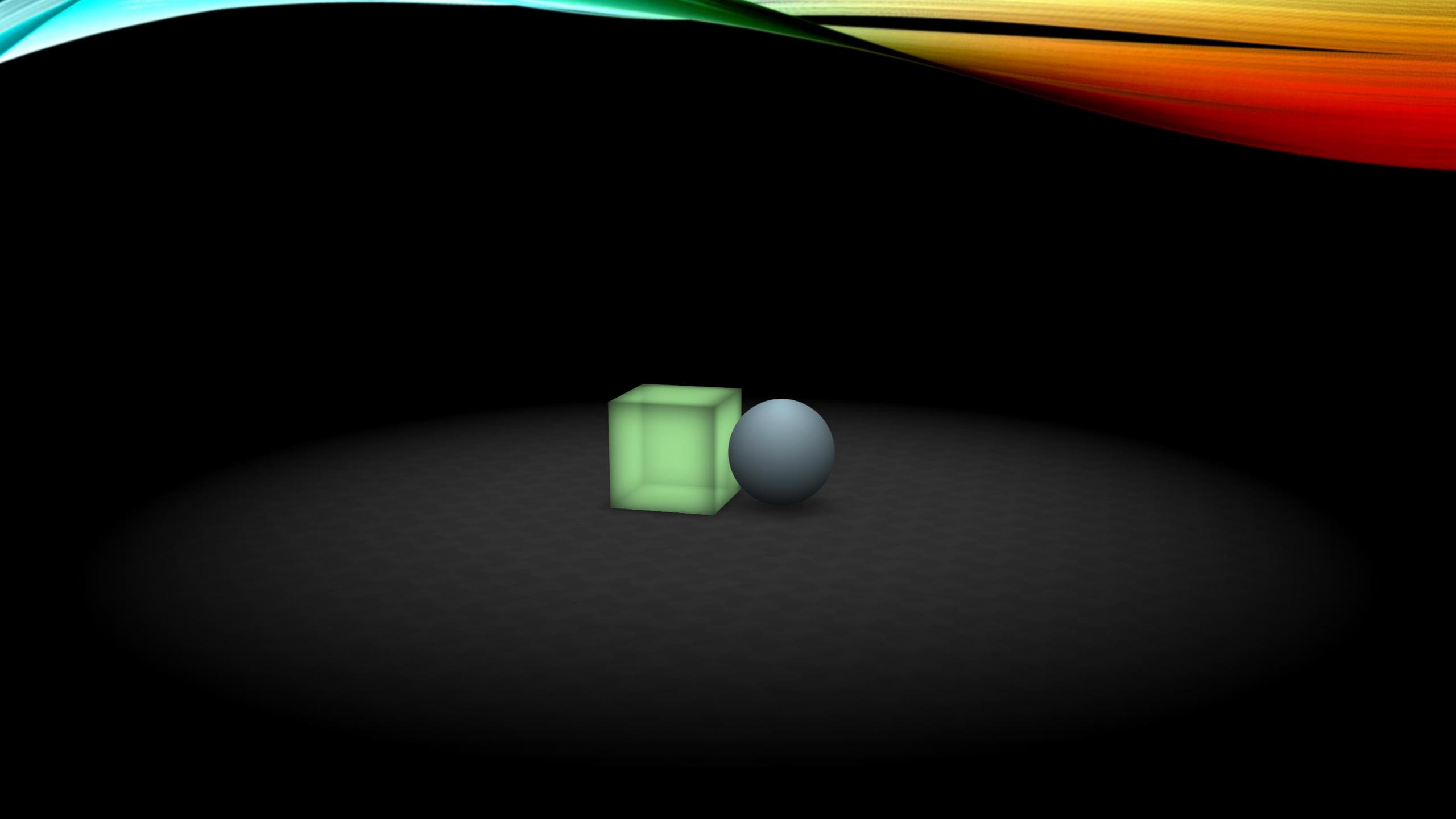
```
@keyframes ballScale {  
    ??? { ??? }  
}
```

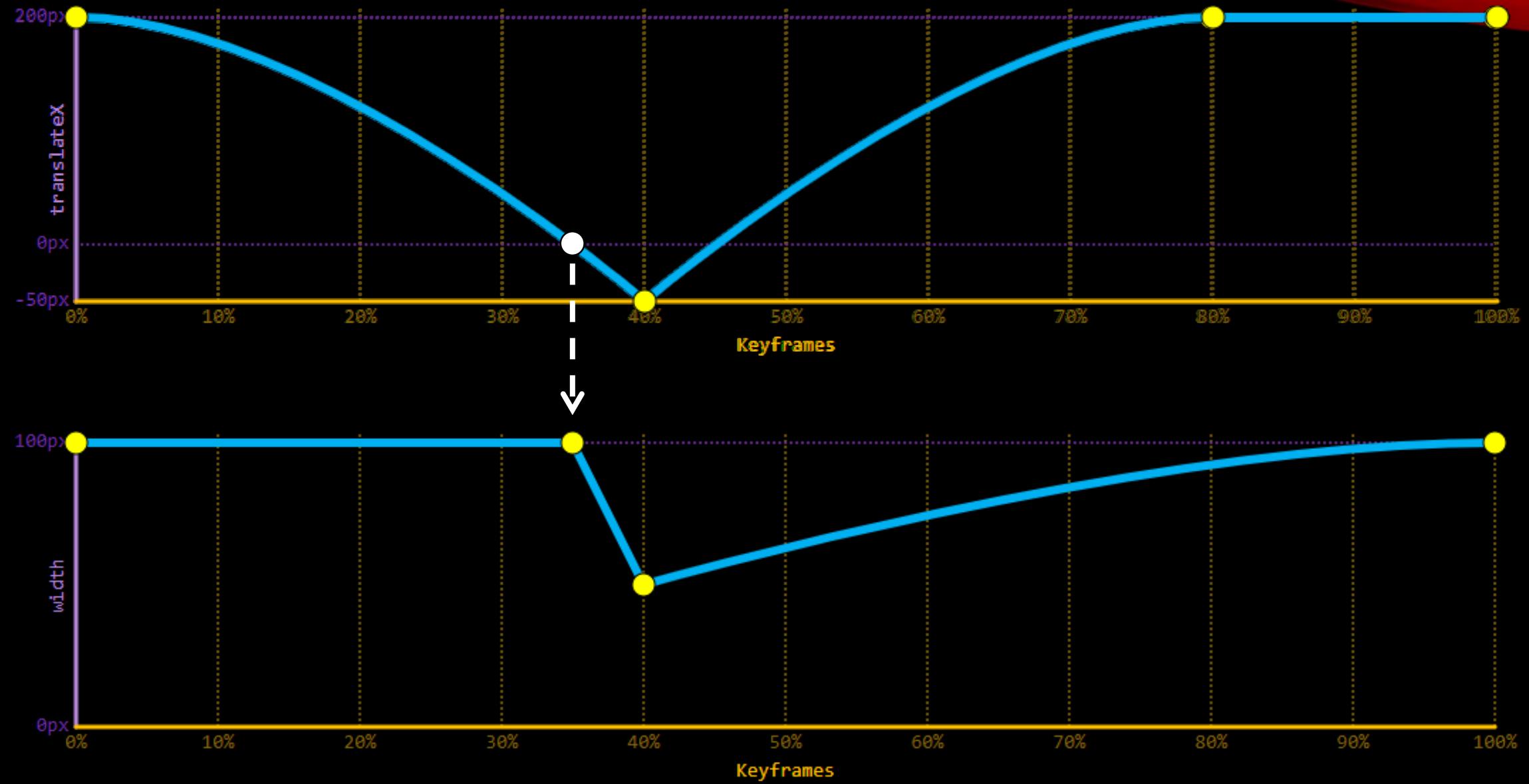


```
animation: ballScale 8s;
```

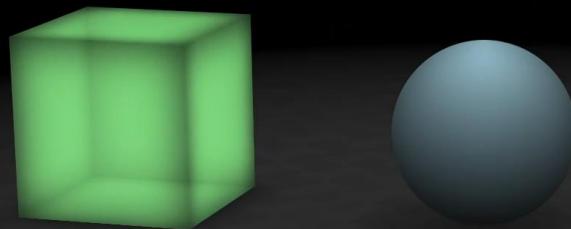
```
@keyframes ballScale {  
    0%   { transform: scale(0); animation-timing-function: ease-out; }  
    16%  { transform: scale(2); animation-timing-function: ease-in; }  
    28%  { transform: scale(1); }  
    65%  { transform: scale(1); animation-timing-function: ease-in-out; }  
    70%  { transform: scale(2); }  
    75%  { transform: scale(1); }  
    80%  { transform: scale(2); }  
    100% { transform: scale(1); }  
}
```

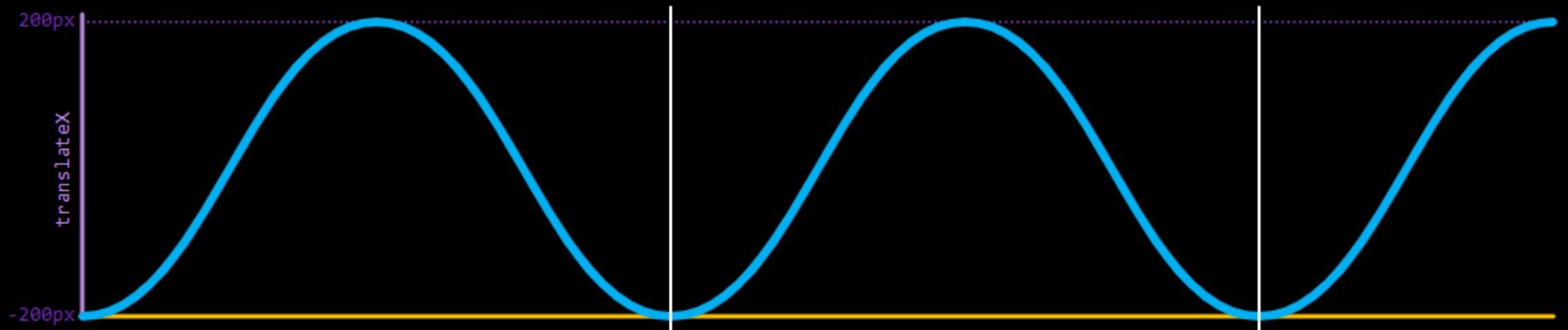
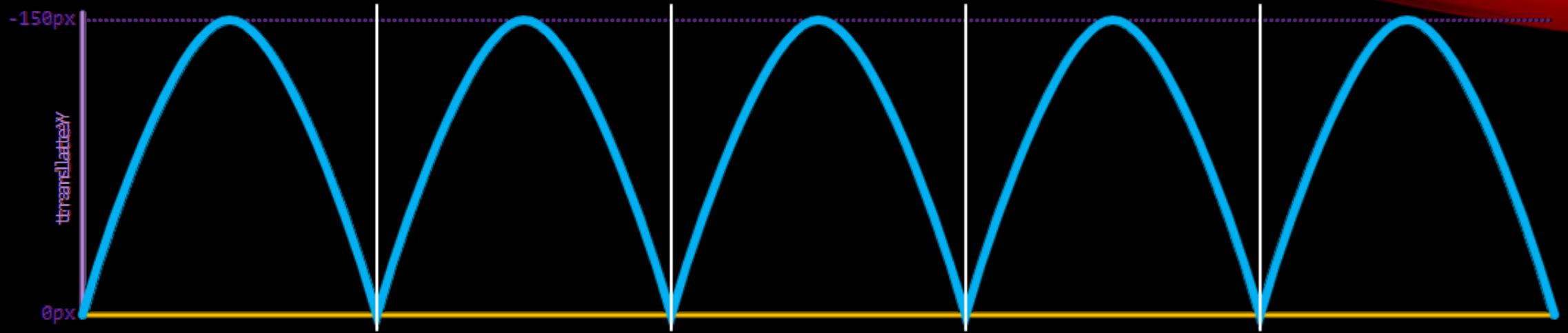


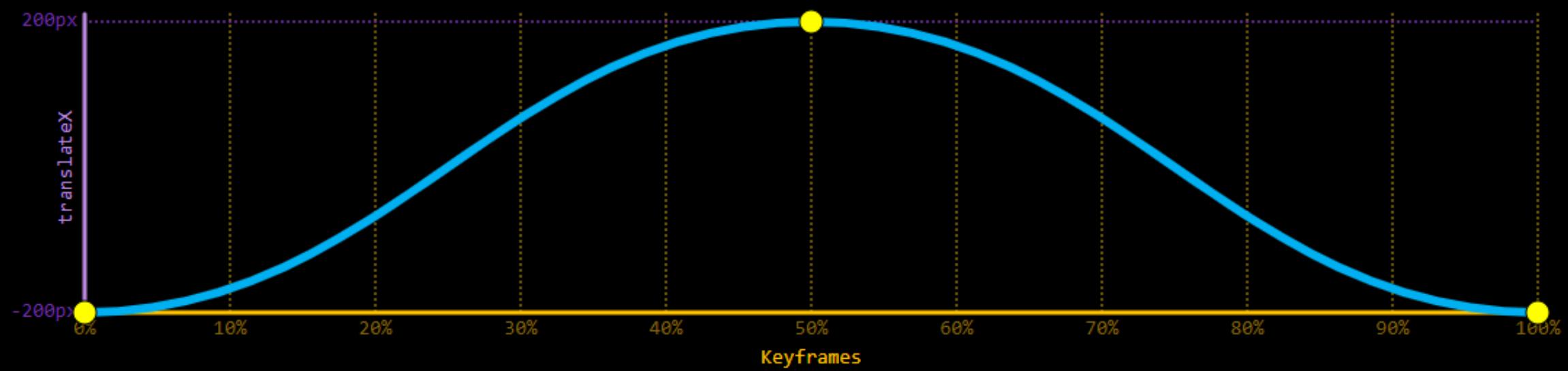
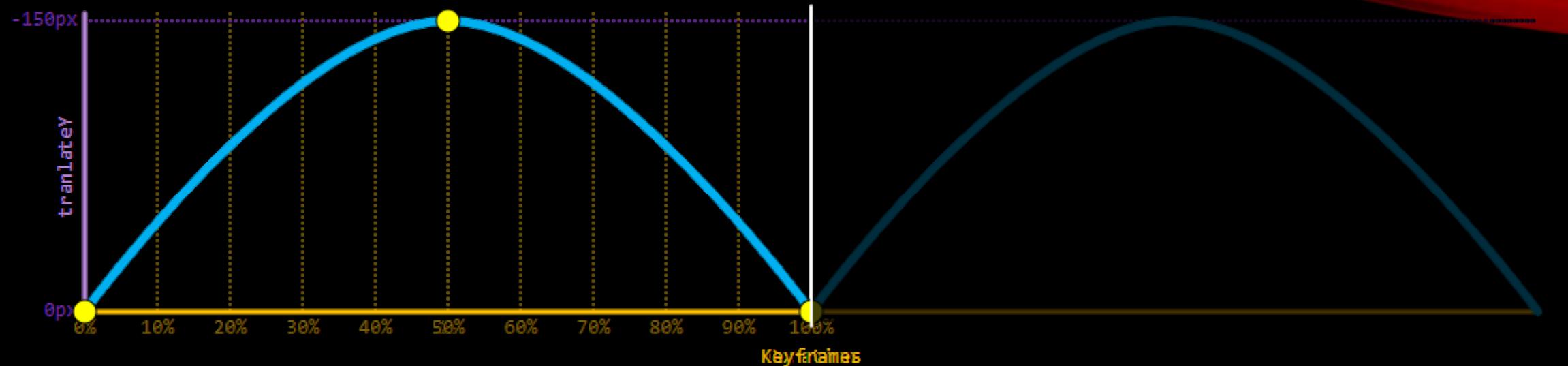


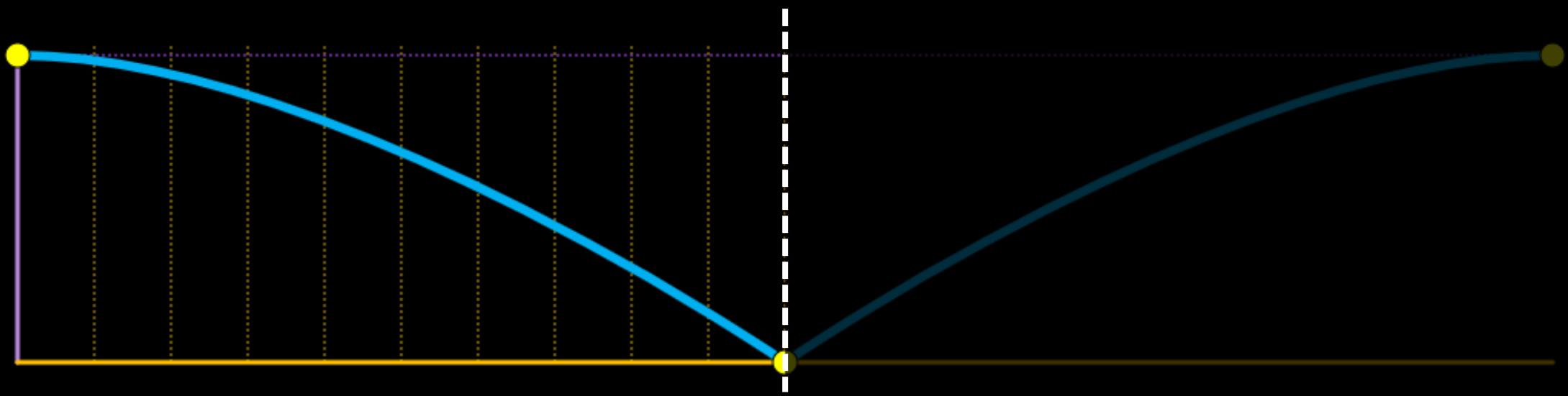


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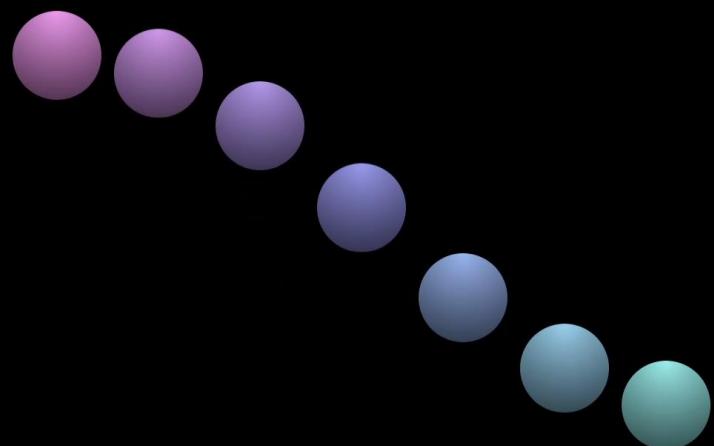




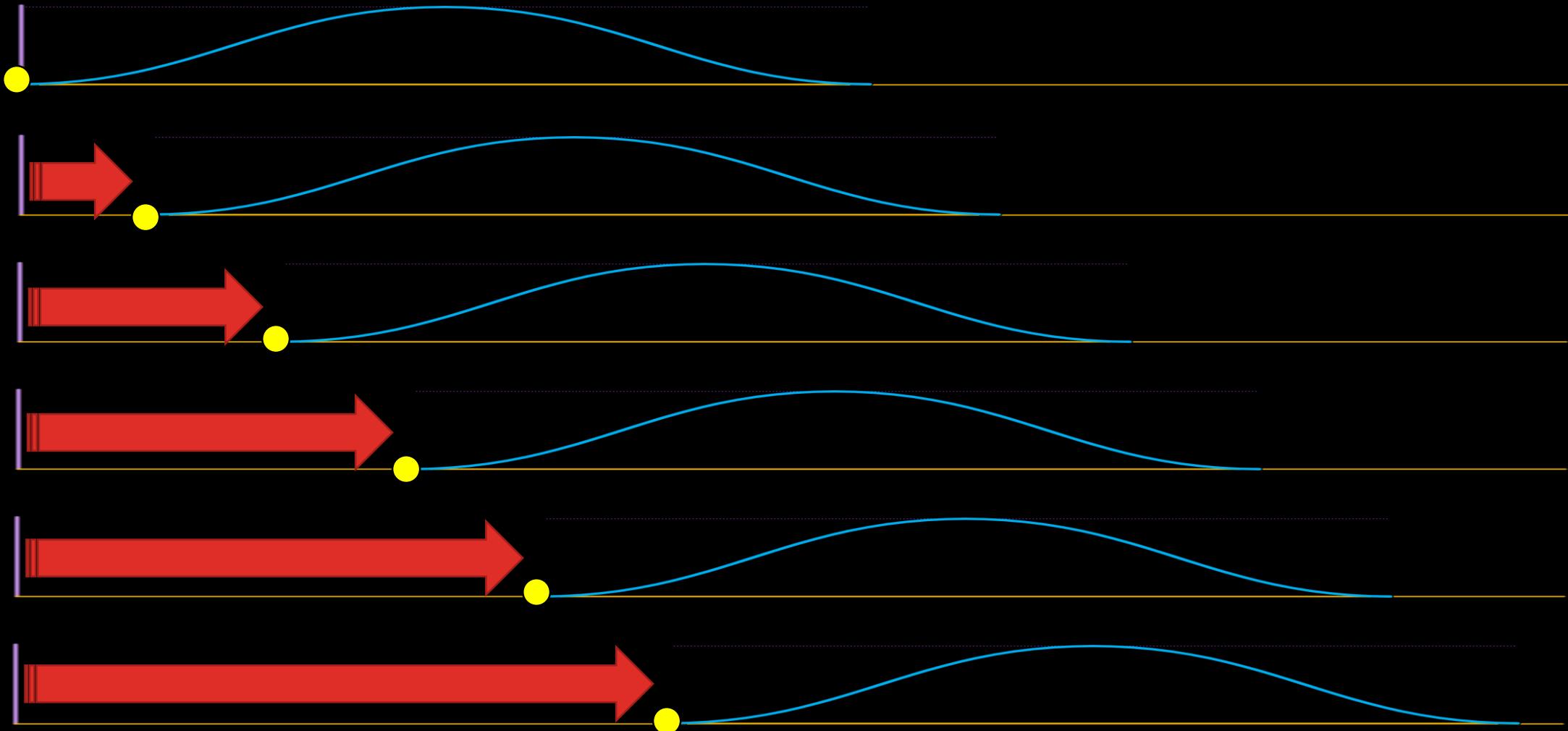


Don't be Negative

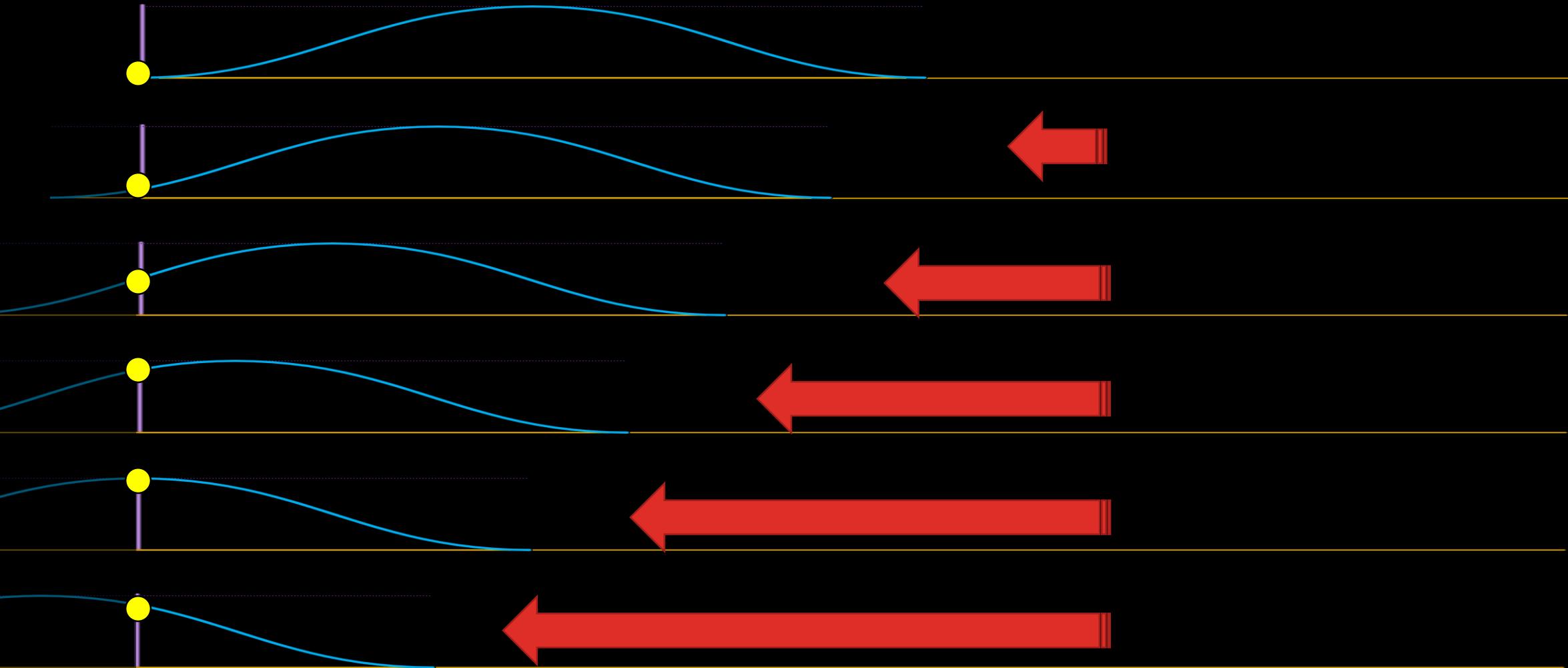
...Unless you need to



Don't be Negative



Don't be Negative



A counterthought...

sometimes, animations doesn't need to sync at all

Recap...

- ✓ Start with a clear description
- ✓ Draw a simple graph for each animation
- ✓ And use negative delay (where needed)

✓ Stay performant

✓ Stay accessible

Thanks for listening

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