# ANIMATIONS



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Angular's animation system is built on CSS functionality, which means you can animate any property that the browser considers animatable. This includes positions, sizes, transforms, colors, borders, and more.



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```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { BrowserAnimationsModule } from '@angular/platform-browser/animations';
@NgModule({
  imports: [
    BrowserModule,
    BrowserAnimationsModule
  declarations: [ ],
  bootstrap: [ ]
})
export class AppModule { }
```



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```
import { Component, HostBinding } from '@angular/core';
import {
  trigger,
  state,
  style,
  animate,
  transition,
  // ...
} from '@angular/animations';
```



#### search to find critical particular and the search of the s

```
@Component({
  selector: 'app-root',
  templateUrl: 'app.component.html',
  styleUrls: ['app.component.css'],
  animations: [
    // animation triggers go here
```



#### Heart on the Comp. The considerables is given being a constrainty of the considerables in the considerable in

State

Open

Styles

height: 200px

opacity: 1

backgroundColor: yellow

State

Closed

Styles

height: 100px

opacity: 0.5

backgroundColor: green



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```
// ...
state('open', style({
  height: '200px',
  opacity: 1,
  backgroundColor: 'yellow'
})),
```

```
state('closed', style({
  height: '100px',
  opacity: 0.5,
  backgroundColor: 'green'
})),
```



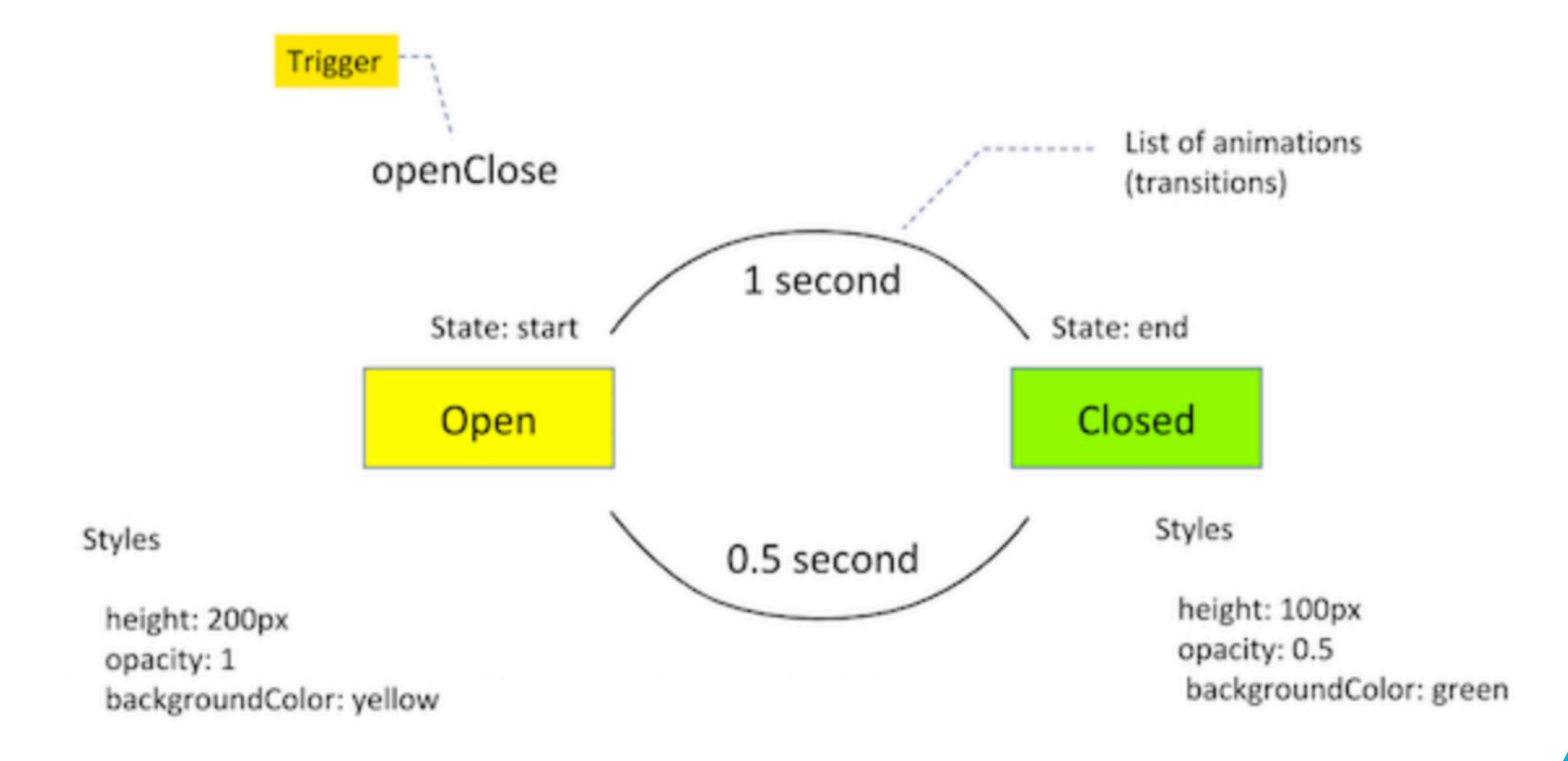
#### learn yet gold every, when stand learning and the stand an

```
transition('open => closed', [
   animate('1s')
]),
```

```
transition('closed => open', [
   animate('0.5s')
]),
```



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```
@Component({
  selector: 'app-open-close',
  animations: [
    trigger('openClose', [
      // ...
      state('open', style({
        height: '200px',
        opacity: 1,
        backgroundColor: 'yellow'
      })),
```

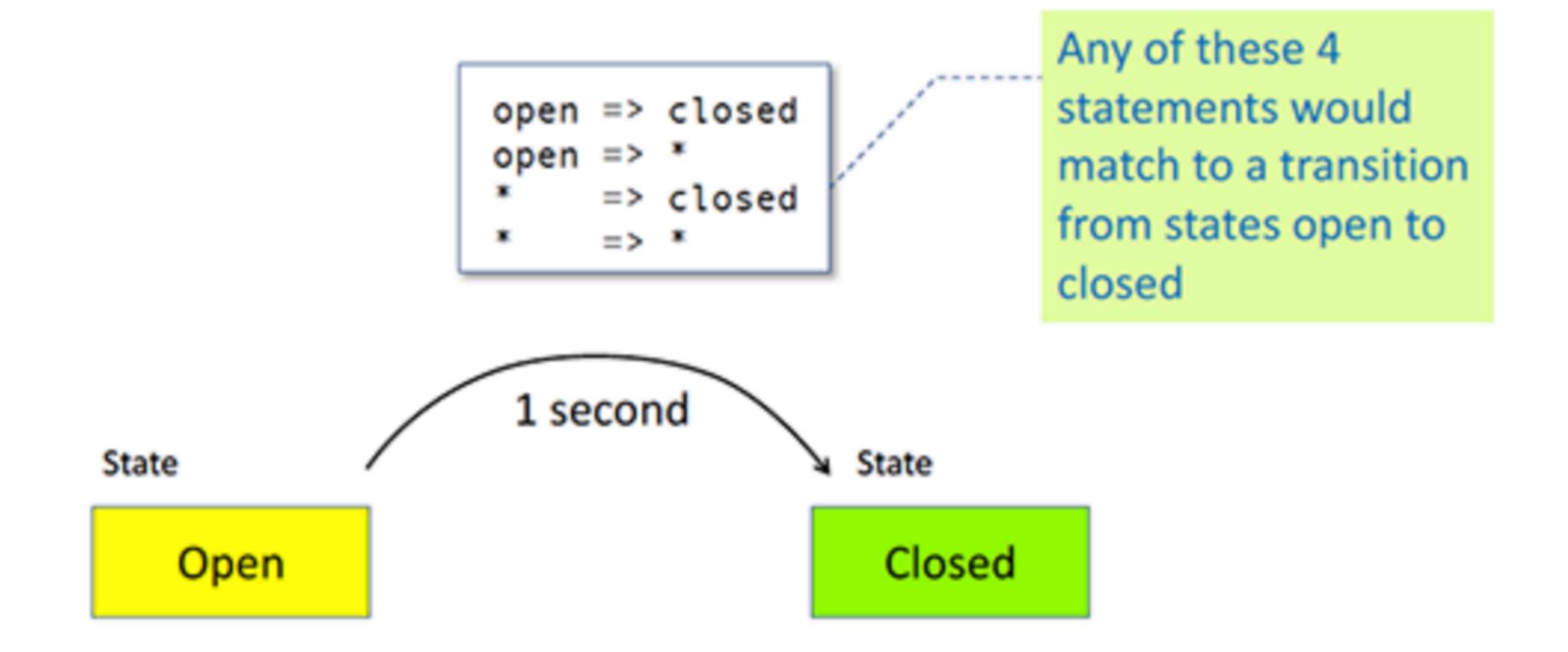


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```
<div [@openClose]="isOpen ? 'open' : 'closed'" class="open-close-container">
    The box is now {{ isOpen ? 'Open' : 'Closed' }}!
</div>
```

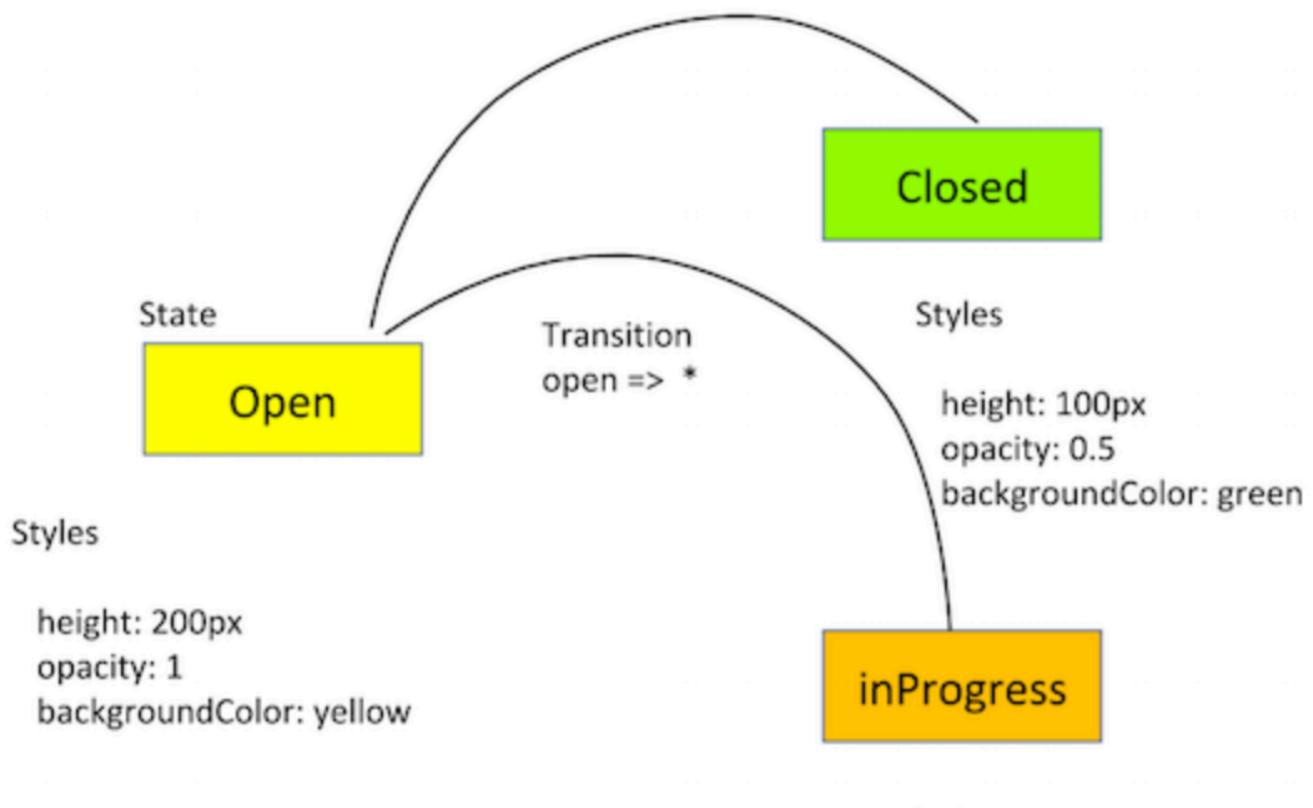


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Styles

height: 100px opacity: 1

backgroundColor: orange



### The continue of the continue o

You can combine wildcard and void states in a transition to trigger animations that enter and leave the page:

- A transition of \* => void applies when the element leaves a view, regardless of what state it was in before it left.
- A transition of void => \* applies when the element enters a view, regardless of what state it assumes when entering.
- The wildcard state \* matches to any state, including void.



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```
transition ( ':enter', [ ... ] ); // alias for void => *
transition ( ':leave', [ ... ] ); // alias for * => void
```



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## New York of State of

```
@Component({
  selector: 'app-root',
  templateUrl: 'app.component.html',
  styleUrls: ['app.component.css'],
  animations: [
    slideInAnimation
    // animation triggers go here
export class AppComponent {
  @HostBinding('@.disabled')
  public animationsDisabled = false;
```



## secret to the rivery product for the secret for the

```
<div [@openClose]="isOpen ? 'open' : 'closed'"
            (@openClose.start)="onAnimationEvent($event)"
            (@openClose.done)="onAnimationEvent($event)"
            class="open-close-container">
</div>
```

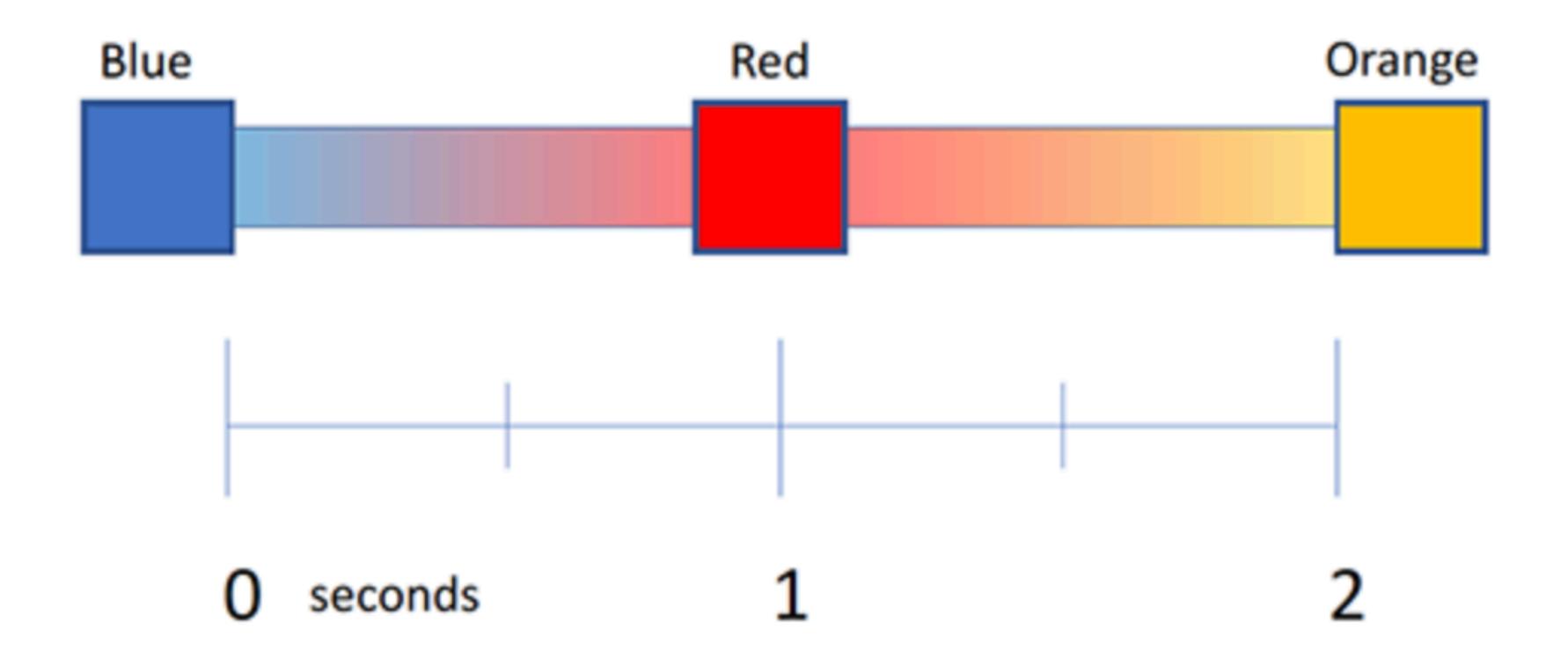


## second to the desire of the contract of the co

```
export class OpenCloseComponent {
 onAnimationEvent ( event: AnimationEvent ) {
   // openClose is trigger name in this example
   console.warn(`Animation Trigger: ${event.triggerName}`);
   // phaseName is start or done
   console.warn(`Phase: ${event.phaseName}`);
   // in our example, totalTime is 1000 or 1 second
   console.warn(`Total time: ${event.totalTime}`);
   // in our example, fromState is either open or closed
   console.warn(`From: ${event.fromState}`);
   // in our example, toState either open or closed
   console.warn(`To: ${event.toState}`);
   // the HTML element itself, the button in this case
   console.warn(`Element: ${event.element}`);
```



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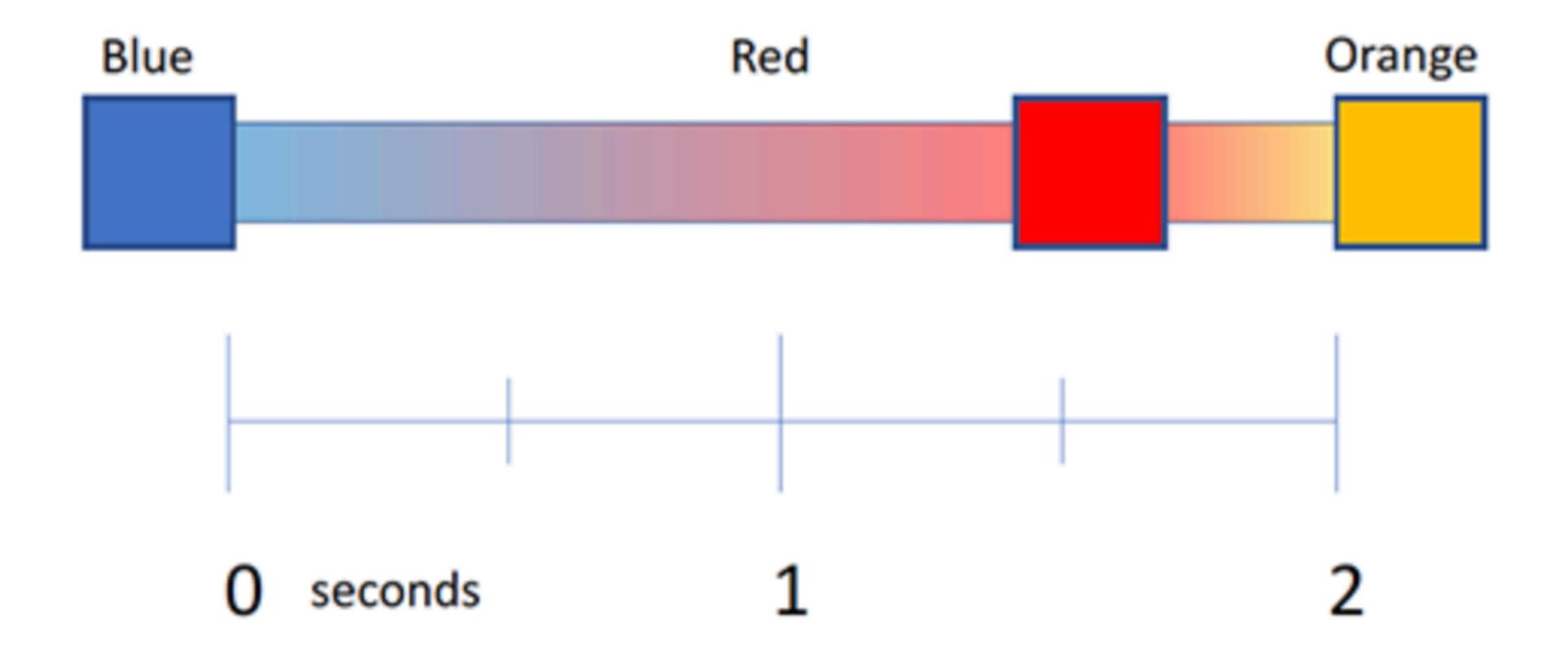


#### And the control of th

```
transition('* => active', [
 animate('2s', keyframes([
    style({ backgroundColor: 'blue' }),
    style({ backgroundColor: 'red' }),
    style({ backgroundColor: 'orange' })
```



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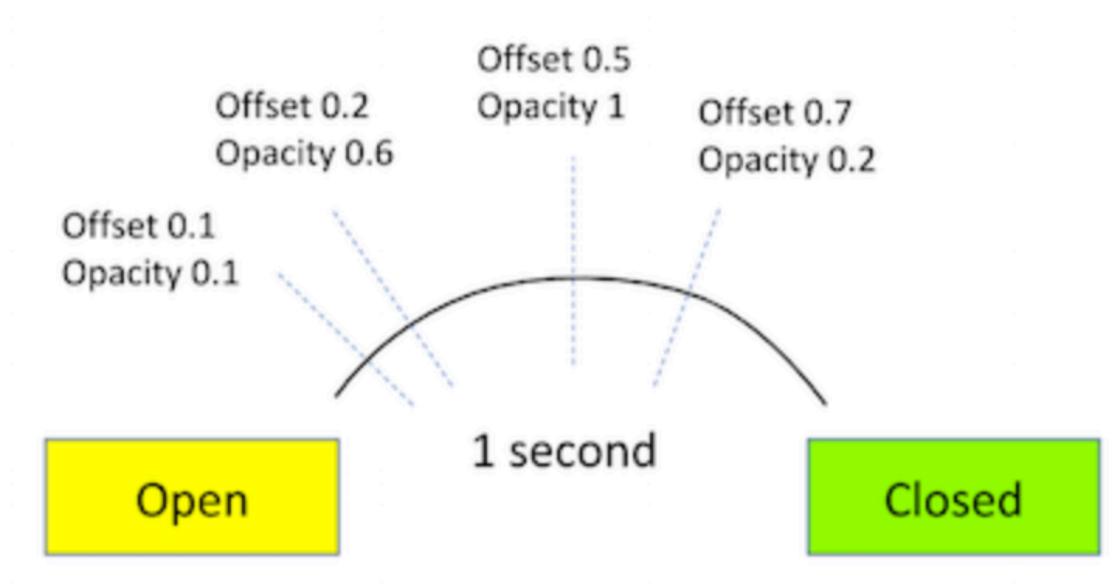


#### Form the final form of the fin

```
animate('2s', keyframes([
   style({ backgroundColor: 'blue', offset: 0}),
   style({ backgroundColor: 'red', offset: 0.8}),
   style({ backgroundColor: 'orange', offset: 1.0})
])),
```



#### Heart to the first particular par



Styles

height: 200px

opacity: 1

backgroundColor: yellow

height: 100px opacity: 0.5

backgroundColor: green



# HERE GOES!



