color



wes anderson's color

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COLOR THEORY

QUICK REFERENCE SHEET

CMYK SUBTRACTIVE

WHEN WE MIX COLORS USING PAINT OR THROUGH THE PRINTING PROCESS, WE ARE USING SUBTRACTIVE COLOR MIXING MEANS THAT ONE BEGINS WITH WHITE AND ENDS WITH BLACK, AS ONE ADDS COLOR, THE RESULT GETS DARGER AND TENDS TO SLACK. TENDS TO BLACK



RGB **ADDITIVE**

CREATED WITH LIGHT

IF WE ARE WORKING ON A COMPUTER.
THE COLORS WE SEE ON THE SCREEN.
ARE CREATED WITH LIGHT USING THE
ADDITIVE COLOR METHOD. ADDITIVE
COLOR MIXING BEGINS WITH BLACK AND
ENDS WITH WHITE; AS VORE COLOR IS
AUDED THE RESULT IS LIGHTER AND
TENDS TO WHITE TENDS TO WHITE



COLOR MEANINGS

SLUE

INTENSE, FIRE BLOOD, ENERGY, DANGER LOVE, PASSIONATE, STRONG.

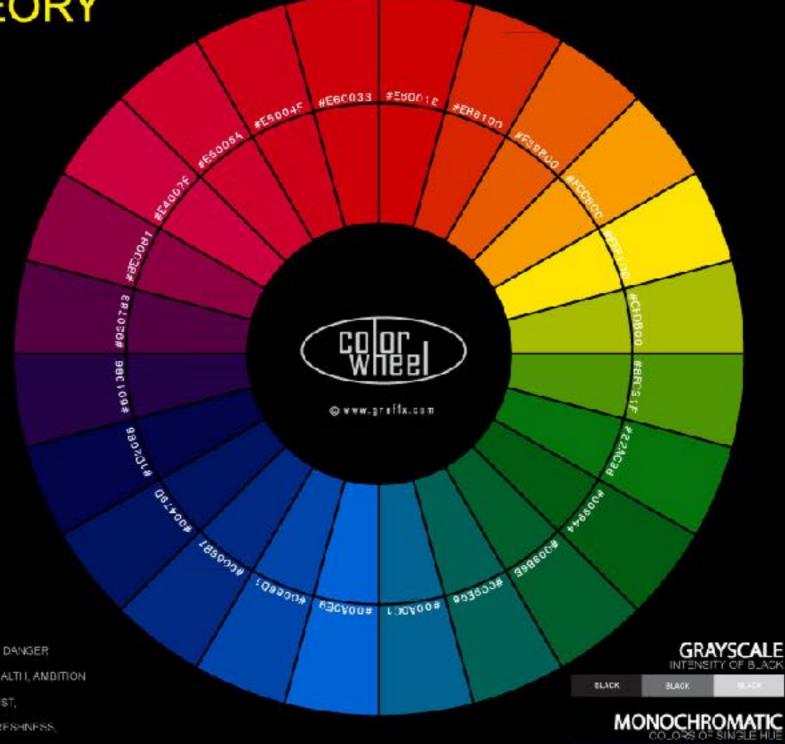
ROYAL TY, POWER, NOBILITY, WEALTH, AMBITION DIGNIFIED, MYSTERIOLIS

SKY, SEA, DEPTH. STABILITY, TRUST, MASCLLINE, TRANQLIL

NATURE GROWTH FERTILITY FRESHNESS, HEALING, SAFETY, MONEY

SUNSHINE, JOY, CHEERFULNESS, INTELLECT, ENERGY ATTENTION. WARV, STIMULATING, ENTHUSIASM, HAPPINESS,

SUCCESS CREATIVE, AUTUVN.



ANALOGOUS

REC	RED CROPURE	TELLUM
411 .000	TELLOW WEST	ORIEN

COMPLEMENTARY

COLORS OPPOSITE EACH OTHER ON THE COLOR WHEEL

R.LE ORECK	RED DRANGE	THE LOOP	VO.ET
BLUE	SEXINGE	CHEEN	REC
BLLE	FELCH TEMAN	OREEN	RED

TRIADIC

THREE COLORS SPACED EQUALLY APART ON THE WHEEL

RED	7785.000	BLVE
RED DEAVSE	VELLOW: ERMEN	BUE VALET
DEANGE	CREEN	NOTEL
TELLOW CHOICE	SUE	AED VD.ET

SPLIT COMPLEMENT

A COLOR AND THE TWO COLORS NEXT TO ITS COMPLEMENT ON THE COLOR

	ANHEEL		
1911.000	NOLET	VOLET .	
YELLOW GEFTH	VICLET	ACD	
OF COM	MOLE	CRANCE	
BLUE	neo	UNAVALE	
ELVE	RED DEARGE	THE LOW THE LIFE	
BLUE	SHAPER.	THE	
NOTEL	VITE (SILI ORANIDE	VELL DW OWNER	
ALDYEL RRD	THE	GPEEN	
RID	VELLOW	BLUE	
DED UNIONE	олизн	BUE	
MANUE	DECE	DLUE VALUE	
UNICTOR	BOR	WOLFT	

SUN

CEAN OCEAN O

When applying a transition, you have a few decisions to make, each of which is set with a CSS property:

- Which CSS property to change (transition-property) (Required)
- How long it should take (transition-duration) (Required)
- The manner in which the transition accelerates (transition-timing-function)
- Whether there should be a pause before it starts (transition-delay)

Transitions require a **beginning state** and an **end state**. The element as it appears when it first loads is the beginning state. The end state needs to be triggered by a state change such as :hover, :focus, or :active...

CSS Animation Selectors

- : hover
- : focus
- : <u>active</u>

transition-property

identifies the CSS property that is changing and that you want to transition smoothly. In our example, it's the background-color. You can also change the foreground color, borders, dimensions, font- and text-related attributes, and many more. TABLE 18-1 lists the animatab CSS properties as of this writing. The general rule is that if its value is a color, length, or number, that property can be a transition property.

Backgrounds

background-color background-position

Borders and outlines

border-bottom-width border-left-color border-left-width border-right-color border-right-width border-top-color border-top-width border-spacing outline-color outline-width

Color and opacity

color opacity visibility

Font and text

font-size
font-weight
letter-spacing
line-height
text-indent
text-shadow
word-spacing
vertical-align

Position

top
right
bottom
left
z-index
clip-path

Transforms

transform-origin

Element box measurements

height width max-height max-width min-height min-width margin-bottom margin-left margin-top padding-bottom padding-left padding-right padding-top

Animateable CSS Properties

Timing Functions

```
. thisAwesomeClass {
                                                       the css property
      transition-timing-function:
                ease
                linear
                ease-in
                                                        possible values you can set
                ease-out
                ease-in-out
                step-start
                step-end
                steps
                cubic-bezier(#,#,#,#)
```

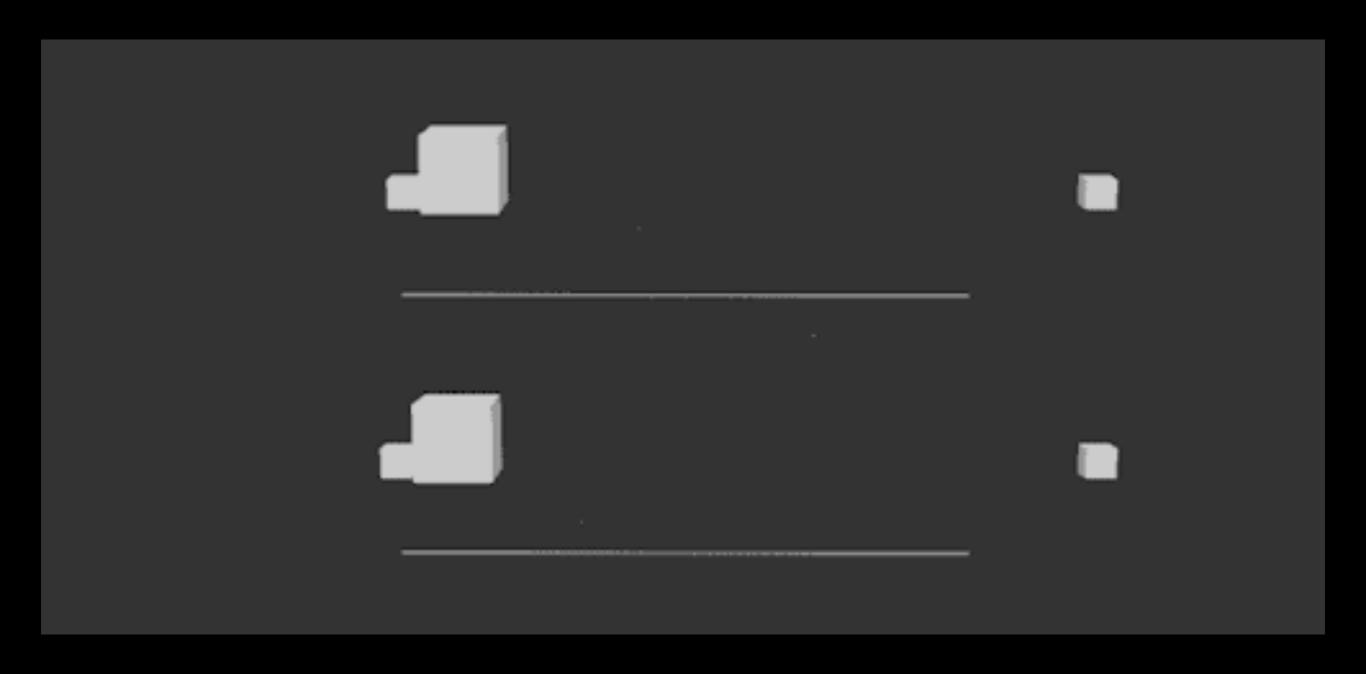
The **property** and the **duration** are required and form the foundation of a transition, but you can refine it further. There are a number of ways a **transition** can roll out over time.

For example, it could start out fast and then slow down, start out slow and speed up, or stay the same speed all the way through, just to name a few possibilities. I think of it as the transition "style," but in the spec, it is known as the timing function or easing function.

The timing function you choose can have a big impact on the feel and believability of the animation, so if you plan on using transitions and CSS animations, it is a good idea to get familiar with the options.



Animation Principle #6 - Slow (Ease) In + Slow (Ease) Out



Animation Principle #9 - Timing

ease

Starts slowly, accelerates quickly, and then slows down at the end. This is the default value and works just fine for most short transitions.

linear

Stays consistent from the transition's beginning to end. Because it is so consistent, some say it has a mechanical feeling.

ease-in

Starts slowly, then speeds up.

ease-out

Starts out fast, then slows down.

ease-in-out

Starts slowly, speeds up, and then slows down again at the very end. It is similar to ease, but with less pronounced acceleration in the middle.

cubic-bezier(x1,y1,x2,y2)

The acceleration of a transition can be plotted with a curve called a Bezier curve. The steep parts of the curve indicate a fast rate of change, and the flat parts indicate a slow rate of change.

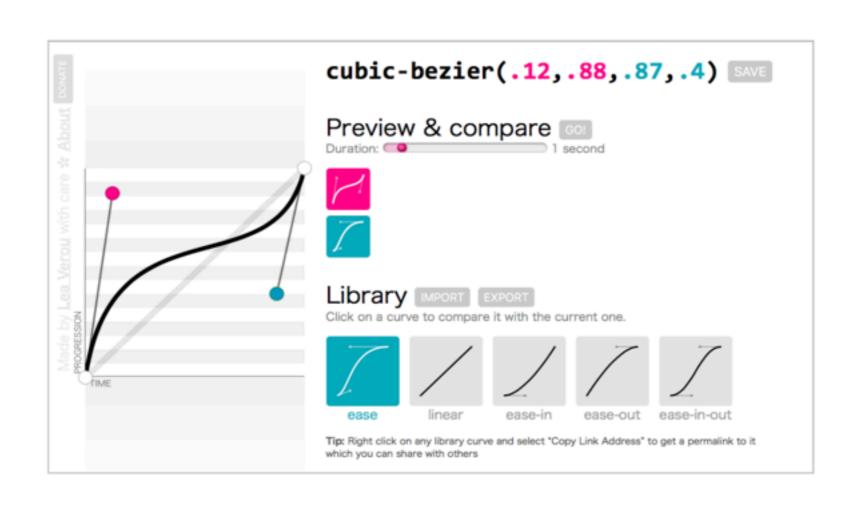


FIGURE 18-2. Examples of Bezier curves from Cubic-Bezier.com. On the left is my custom curve that starts fast, slows down, and ends fast.

You can see that the ease curve is a tiny bit flat in the beginning, gets very steep (fast), then ends flat (slow). The linear keyword, on the other hand, moves at a consistent rate for the whole transition.

You can get the feel of your animation just right by creating a custom curve. The site <u>Cubic-Bezier.com</u> is a great tool for playing around with transition timing and generating the resulting code. The four numbers in the value represent the x and y positions of the start and end Bezier curve handles (the pink and blue dots.

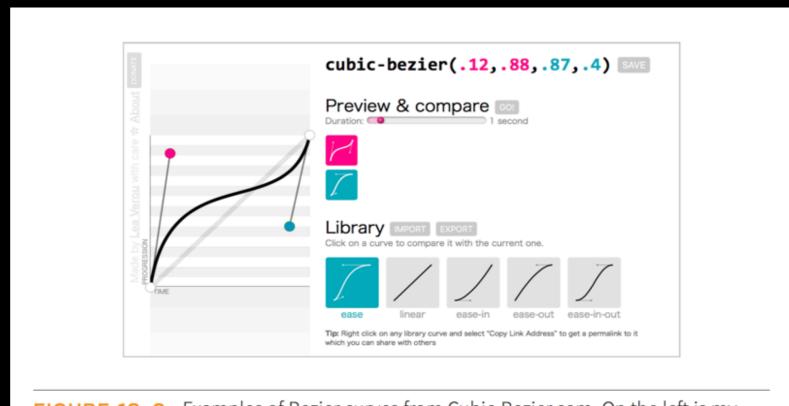


FIGURE 18-2. Examples of Bezier curves from Cubic-Bezier.com. On the left is my custom curve that starts fast, slows down, and ends fast.

steps(#, start|end)

Divides the transitions into a number of steps as defined by a stepping function. The first is the number of steps, and the **start** and **end** keywords define whether the change in sta happens at the begin- ning (**start**) or end of each step. Step animation is especially useful keyframe animation with sprite images. For a better explanation and examples, I recomm the article "Using Multi-Step Animations and Transitions," by Geoff Graham on CSS-Tricks (css-tricks.com/using-multi- step-animations-transitions/).

step-start

Changes states in one step, at the beginning of the duration time (the same as steps(1,st The result is a sudden state change, the same as if no transition had been applied at all.

step-end

Changes states in one step, at the end of the duration time (the same as steps(1,end)).

transition-delay

The transition-delay property, as you might guess, delays the start of the animation by a specified amount of time.

The Shorthand transition Property

The authors of the CSS3 spec had the good sense to give us the shorthand transition property to combine all of these properties into one declaration. You've seen this sort of thing with the shorthand border property. Here is the syntax:

```
transition: property duration timing-function delay;
.theClass {
    transition: background-color 0.3s ease-in-out 0.2s;
}
```

The values for each of the **transition-*** properties are listed out, separated by character spaces. The order isn't important as long as the **duration** (which is required) appears before **delay** (which is optional). If you provide only one time value, it will be assumed to be the duration.

The sub-properties of the **animation** property are:

animation-delay

Configures the delay between the time the element is loaded and the beginning of the animation sequence.

animation-direction

Configures whether or not the animation should alternate direction on each run through the sequence or reset to the start point and repeat itself.

animation-duration

Configures the length of time that an animation should take to complete one cycle.

animation-iteration-count

Configures the number of times the animation should repeat; you can specify infinite to repeat the animation indefinitely.

animation-name

Specifies the name of the **@keyframes** at-rule describing the animation's keyframes.

animation-play-state

Lets you pause and resume the animation sequence.

animation-timing-function

Configures the timing of the animation; that is, how the animation transitions through keyframes, by establishing acceleration curves.

animation-fill-mode

Configures what values are applied by the animation before and after it is executing.

@keyframes + animation property