## Transforms · Transitions · Animations · Filters · Target

currently located.

.dino {

direction:

.dino {

.dino {

.dino {

Easings

ease-in-out

Bezier Generator

@keyframes keywords

@keyframes wiggle {

start {

end {

.dino {

.dino {

Use the start & end keywords.

transform: translateX(-2em);

transform: translateX(-4em);

animation: wiggle 1s 2s linear

animation: wiggle 1s 2s linear;

animation: wiggle 1s linear forwards

forwards — Animation fill mode: keep the

animation: wiggle 1s linear forwards;

Put animation in :hover to trigger when

animation: dance .3s linear;

Will blur text, elements & images.

filter: blur(7px);

Accepts a pixel number representing the blur radius.

Will adjust the colour saturation of text, elements &

100% is no change; 0% is completely black &

animation on its last frame when complete.

Modes: forwards, backwards

animation on :hover

interacted with

blur(px)

saturate(%)

images.

.dino:hover {

Delay starting the animation for 2s

.dino {

specific number of frames.

/\* WRONG \*/

The position is based on where the element is

transform: translate(5em, 0);

transform: translateX();

transform: translateY();

Has companion functions to move only in one

Written on a single line, separated by a space.

Multiple transforms—incorrect example

Only the second entry will be activated.

transform: rotate(33deg);

transform: scale(1.4);

Multiple lines won't work.

transform: rotate(33deg) scale(1.4);

transition: background-color 1s linear

transition: background-color 1s linear

Transition only the background-color.

linear, ease, ease-in, ease-out,

steps() — instead of a smooth transition,

transition: background-position 1s ste

Create your own with cubic-bezier() —Cubic

/\* Move rightwards 5em and no vertical

transform: scale(factor)

transform: scale(1.4);

transform: scaleX();

transform: scaleY();

transform-origin

aka center center

/\* Top left corner \*/

transform-origin: left top;

/\* Centre of the top edge \*/

transform-origin: center top;

transform-origin: 10px 10px;

transition: all 1s 2s linear

Delay starting the transition for 2s

transition: all 1s 2s linear;

transition: all 1s linear;

Do not put transition in :hover —it won't do

.dino {

Always on the original state

what you expect.

.dino:hover {

/\* WRONG \*/

@keyframes percentages

@keyframes wiggle {

keyframes.

0% {

40% {

80% {

100% {

.dino {

.moon {

ease-in-out

Bezier Generator

brightness(%)

100% is brighter.

filter: sepia(88%);

Filters, hover & transition

filter: brightness(126%);

images.

sepia(%)

Will adjust the brightness of text, elements &

100% is no change; 0% is completely black; over

Will convert text, elements & images to sepia tones.

Since the filters are numerical they can be animated!

0% is no change, 100% is completely sepia.

.dino {

specific number of frames

Easings

Use percentages to define the different animation

transform: translateX(0em);

transform: translateX(-2em);

transform: translateX(2em);

transform: translateX(0em);

animation: wiggle 1s linear infinite

animation keyframes infinite number of times.

Use a number to choose how many interations.

/\* Play the animation 5 times \*/

linear, ease, ease-in, ease-out,

steps() — instead of a smooth transition,

animation: wiggle 1s steps(4);

Create your own with cubic-bezier() —Cubic

animation: wiggle 1s linear 5;

infinite — Animation iteration count: loop the

animation: wiggle 1s linear infinite;

occurs.

then vertical.

/\* Or combined together \*/

transform: scale(1.4, 3);

2.3 is bigger.

.dino {

direction:

Grow or shrink an element and all its children.

Has companion functions to scale only in one

Control the anchor point for where the transform

The default is in the complete centre of the element,

Similar to background-position: horizontal

/\* 10px in from the left, 10px down from

/\* Centre horizontally, 10px up from bot

transform-origin: center calc(100% - 5px

transform-origin: center center;

1 is what the element currently is; .6 is smaller;

CSS animations & effects cheat sheet

transform: rotate(deg) transform: translate(x, y) Similar to position relative; will move an Rotate an element and any children a certain element around on the screen without affecting Can use negative numbers to go backwards. other elements.

transform: skew(deg, deg) Multiple transforms Skew an element horizontally and vertically. .dino {

**Transforms** 

.dino {

direction:

transform: skewX();

transform: skewY();

number of degrees.

transform: rotate(-33deg);

/\* Leaving the second value off will o transform: skew(12deg); Has companion functions to skew only in one

**Transitions** Requires user interaction to trigger. transition: all 1s linear Transition all numerical properties that changed. Lasting 1s With linear easing (no easing). .dino { transition: all 1s linear; Multiple transitions

Written on a single line, separated by a comma.

.dino { transition: background-color 1s linear **Animations** Can play automatically or on user interaction.

@keyframes First component of an animation. Name the keyframes whatever you'd like—following naming conventions. @keyframes wiggle {} @keyframes dance {} @keyframes faderoo {} @keyframes blabidy-boo {}

animation: wiggle 1s linear Use the keyframes set named wiggle Make the animation last 1s Have linear (no) easing.

.dino { animation: wiggle 1s linear; animation: wiggle 1s linear alternate alternate — Animation direction: play the keyframes forwards then backwards. Directions: normal, reverse, alternate, alternate-reverse

.dino { animation: wiggle 1s linear alternate; Combine multiple options together .dino { animation: dance 1s 2s 6 alternate; Use the dance keyframes, play the animation for 1s, wait 2s to start the animation, loop the keyframes 6 times, and alternate the

keyframe play direction forwards & backwards **Filters** grayscale(%)

Be careful with image filters, they're very memory intensive and can slow your website down significantly. See more filters. Will desaturate text, elements & images. 0% is no change, 100% is black & white. Make sure to spell "gray" the American way. filter: grayscale(42%);

contrast(%) Will adjust the contrast of text, elements & images. 100% is no change; 0% is completely grey; over 100% is more contrast-y. filter: contrast(78%);

drop-shadow(x, y, radius, color) around the non-transparent pixels. Has the same values as the standard CSS text-

shadow property.

Will add a drop-shadow to elements, text & images. It will see inside the image and add a drop-shadow Needs four properties: horizontal offset, vertical offset, blur radius, colour. filter: drop-shadow(2px 2px 10px rgba(0,

Style an element when the URL matches the id of

URL: https://dinos-r-us.ca/#stego

<h1 id="stego">Stegosaurus</h1>

background-color: yellow;

background-color: yellow;

**Target** 

:target

an element.

#stego {

#stego:target {

white; over 100% is more saturated. filter: saturate(258%); Multiple filters space.

.dino {

.dino {

.dino:target {

border-color: #f33;

Multiple filters can be applied by separating with a

Target links <l

<div class="dino" id="stego">...</div>

<div class="dino" id="tri">...</div>

border: 1px solid #e2e2e2;

filter: contrast(120%) grayscale(100%) <a href="#stego">Stegosaurus</a></

<a href="#tri">Triceratops</a>

.dino { filter: contrast(120%) grayscale(100%) transition: all .2s linear; .dino:hover {

filter: contrast(100%) grayscale(0); Animate when targeted #dino:target {

<a href="#dino">Go Dino, Go!</a> <img id="dino" src="images/dino.svg" alt</pre> animation: wiggle 1s linear;