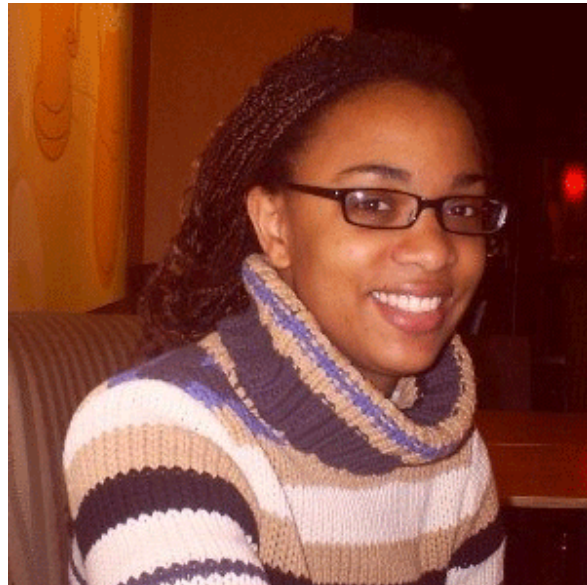# Transforming and Animating in 3D

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Definition

CSS 3D Transform extends CSS Transform to allow elements rendered by CSS to be transformed in **three-dimensional** space.

Source : http://www.w3.org/TR/css3-transforms/

X-axis
Y-axis
Z-axis

Perspective
Perspective-origin
Transform-origin
Transform-style
Backface-visibility

3D Effect with Perspective

3D Transform Methods

3D Transition Demos

Tutorials

Perspective

Perspective

distance between the object and the viewer

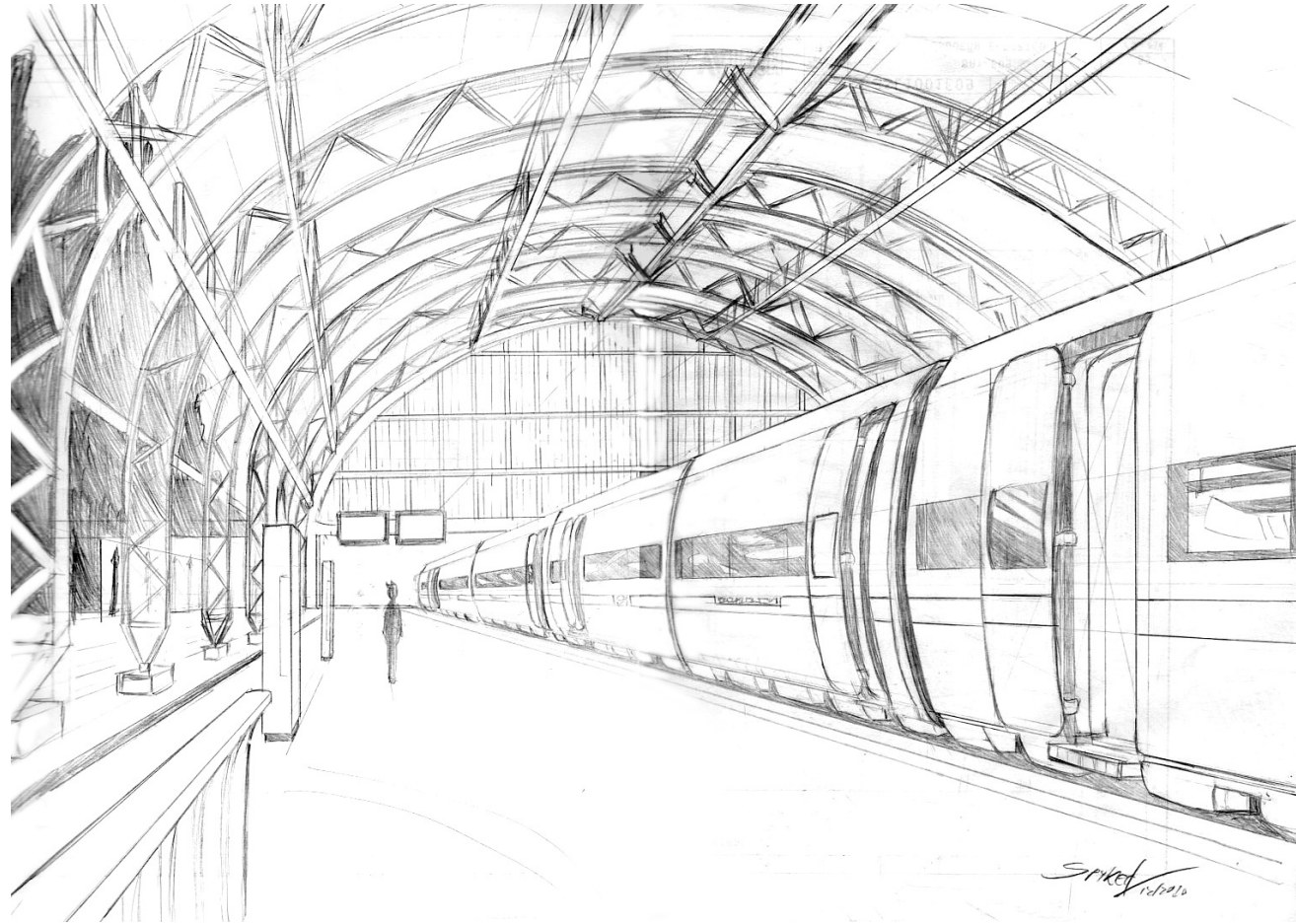perspective: **1500px** - far -

perspective: **500px** - close -

Perspective in Photography

http://commons.wikimedia.org/wiki/File:One_point_perspective.jpg
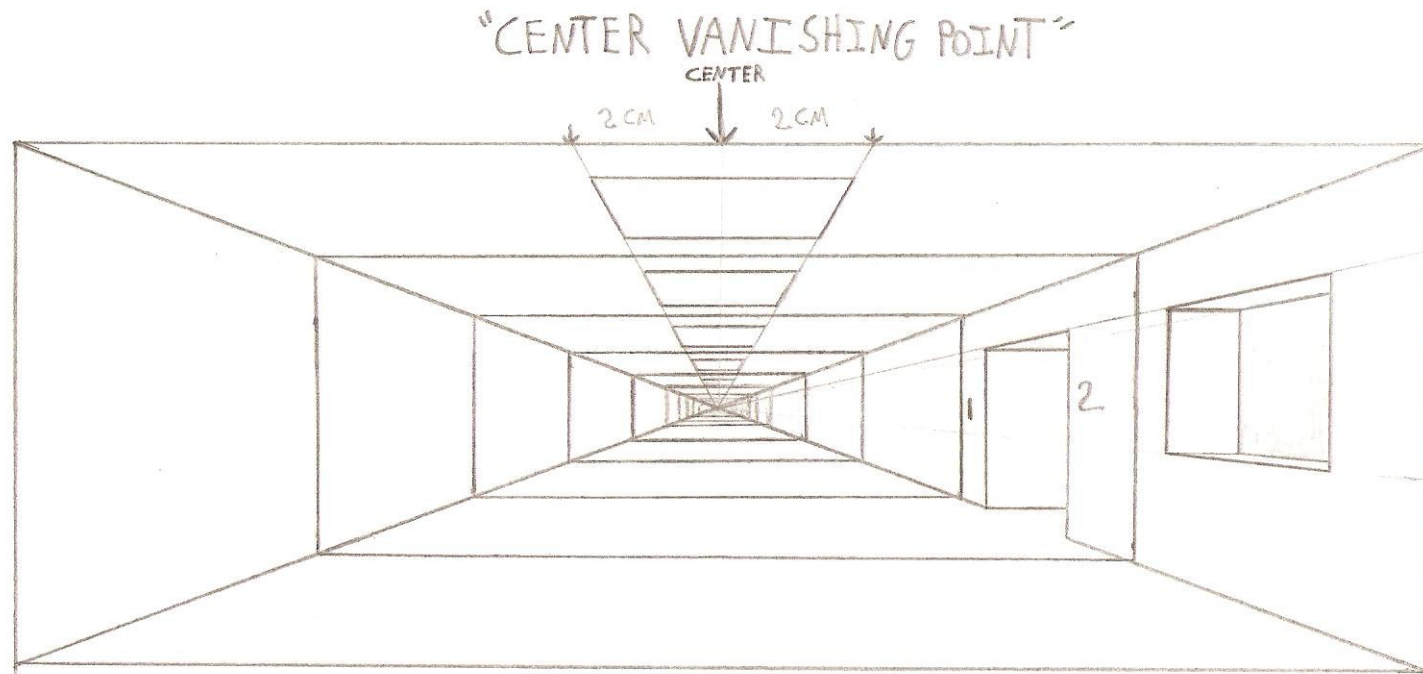
Vanishing Point in Art

Vanishing Point in Art

Vanishing Point In Art

http://ashlife.deviantart.com/

CSS 3D Transform

Translate()

TranslateX()

TranslateY()

TranslateZ()

shorthand: **translate3d(**x-axis, y-axis, z-axis**)**

Rotate()

RotateX()

RotateY()

RotateZ()

shorthand: **rotate3d(**x, y, z, angle *deg***)**

Scale()

ScaleX()

ScaleY()

ScaleZ()

shorthand: **scale3d()**

Perspective-origin

perspective-origin: 50% 50% ;

Perspective-origin

perspective-origin: 50% 50% ;

perspective-origin: 20% 40% ;

Perspective-origin

perspective-origin: 50% 50% ;

perspective-origin: 40% 20% ;

Transform-style

transform-style: flat ; (*default*)

transform-style: preserve-3d;

Transform-origin

transform-origin: 50% 50% ;

Transform-origin

transform-origin: 20% 40% ;

Transform-origin

transform-origin: 40% 20% ;

Backface-visibility

backface-visibility: visible; (*default*)

backface-visibility: hidden;