http://animateyourhtml.appspot.com

Goal I: move the tile with a click

```
#tile.begin { left: 20px; top: 20px; }
#tile.end { left: 220px; top; 220px; }
```

Goal 2: add a transition

```
-webkit-transition: I000ms ease-in;
-webkit-transition-property: all;
-webkit-transition-duration: I000ms;
-webkit-transition-timing-function: ease-in;
essayer: ease-in, ease-out, ease-in-out, linear, default
```

Goal 3: use a cubicbezier speed

-webkit-transition-timing-function: cubic-bezier (0, 0.5, 1, 0.5);

Goal 4: animate other CSS properties

exemples:

opacity: I;

background-color: red;

border: none;



opacity: 0;

background-color: blue;

border: 10px solid black;

Goal 5: use CSS transforms

exemples:

- -webkit-transform: rotate(360Deg);
- -webkit-transform-origin: 00;
- -webkit-transform: scale (0.5);
- -webkit-transform: rotateX(360Deg);
- -webkit-transform: skew (10Deg, 0Deg);

Goal 6: use animations with multiple keyframes

```
-webkit-animation: letsrock 1000ms

@-webkit-keyframes letsrock

{
from {left: 10px; top: 10px;}
50% {left: 210px; top: 10px;}
to {left: 210px; top: 10px; -webkit-transform: rotate (90Deg);}
}
```

Goal 7: go crazy!

Goal I: rotate the "cube" object.

```
-webkit-animation: rocknroll 15s linear infinite

@-webkit-keyframes rocknroll
{
    to { -webkit-transform: rotateZ(1080Deg) rotateY(360Deg); }
}
-webkit-animation-direction: normal / alternate;
-webkit-animation-duration: 1000ms;
-webkit-animation-timing-function: ease-in / linear / ...
-webkit-animation-delay: 2s;
-webkit-animation-iteration-count: I / 2 / ... / infinite;
```

Goal 2: add perspective.

- -webkit-perspective: 500px;
- -webkit-transform-style: preserve-3d;

Goal 3: put one face in place, then add more.

```
#tile_A
{
    -webkit-transform: translateZ(I50px);
}
#tile_B
{
    -webkit-transform: translateX(I50px) rotateY(90Deg);
}
```

Goal 4: open the cube on a mouse hover.

```
#tile_A {-webkit-transform: translateZ(I50px);}
:hover > #tile_A {-webkit-transform: translateZ(250px);}
-webkit-transition: 500ms ease-out;
```

Goal 5: go crazy!

Goal I: move the tile with a click

```
var nod = document.getElementById(id);
```

```
nod.style.left = 220 + "px";
nod.style.top = 220 + "px";
```

Goal 2: move the tile in an animation loop

```
function on_move(time)
{
    // Move the object here - Use a global variable to store
    // its position for the time being.
    webkitRequestAnimationFrame(on_move);
}
```

Goal 3: animate multiple objects at the same time, with correct parameters

```
var animations = new Object;
...
animations[id] = new Object;
animations[id].nod = nod;
animations[id].starttime = new Date().getTime();
animations[id].startX = nod.offsetLeft;
...
for (var id in animations) { ... }
...
delete animations[id];
```

Goal 4: get the calculations right

```
// animation parameter, between 0 and I var t = (time - animations[id].start) / animations[id].duration
```

```
// current position

new_x = animations[id].startx + t^* animations[id].relx
```

Goal 5: go crazy!

Goal I: create a canvas and draw a square onto it

Goal 2: draw a tile with a custom rotation angle

```
var tile = new lmage();
tile.src = "img/tile_world.png";
cnv.save();
cnv.translate(x, y);
cnv.rotate(0.1); // radians!
cnv.drawlmage(tile, xi, yi);
cnv.restore();
```

Goal 3: initialize the world and draw it

```
function setupWorld()
{
    createWorldWithGravity(); // Box2d helper
    tile = createBox(...); // Box2d helper
}
function drawWorldIn(world, canvas)
{
    canvas.clearRect(...);
    drawWorldWireframe(world, canvas); // Box2D helper
}
```

Goal 4: prepare 2 animation loops and launch them!

```
var world, canvas; // + initialization of the world and the canvas
...
function runWorld ()
{
    world.Step (1/50, 1);
    setTimeout (runWorld, 1000/50);
}
function runAnimation ()
{
    draw (world, canvas);
    webkitRequestAnimationFrame (runAnimation);
}
```

Goal 5: add a ground and other objects

Goal 6: go crazy!

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