2D Transforms
transform: translate(50px,100px);
transform: rotate(30deg);
transform: skew(30deg,20deg);
transform: scale(2,4);
transform: translate(50px,100px);

transform:matrix(0.866, 0.5, -0.5, 0.866, 0, 0);
//does all of the above with just numbers

transform:rotate(-10deg) skew(-10deg, 20deg) translate(0px,20px);

#mydiv
background-color:rgba(146,189,154,1.00);
transform:rotate(30deg) translate(0, 50px);

img
transform:skew(30deg,20deg) scale(0.5,0.75);

3D Transforms
transform: rotateX(120deg);
transform: rotateY(120deg);
perspective: 500;

Transitions
transition: width 2s;

properties.css

```css
#modalbg {
	width:0;
	height:0;
	background-color:rgba(125,171,207,0.7);
	opacity:0;
	z-index:101;
	position:fixed;
	top:0;
	left:0;
	transition:opacity 2s;
}


#mover {
	background-color:#fff;
	position:fixed;
	width:180px;
	padding:10px;
	top:200px;
	left:-200px;
	transition:left 2s;
}

#expander {
	margin:10px auto;
	width:400px;
	height:40px;
	border:2px solid #4A4AB3;
	border-radius:10px;
	overflow:hidden;
	transition:height 650ms;
}
```

properties.js
```javascript
function fadeIn() {
        document.getElementById('modalbg').style.width="100%";
        document.getElementById('modalbg').style.height = "100%";
        document.getElementById('modalbg').style.opacity = "1";
}

function fadeOut() {
        document.getElementById('modalbg').style.opacity = "0";
        resetTime = "2000";
        setTimeout( "document.getElementById('modalbg').style.width
='0'", resetTime);
        setTimeout( "document.getElementById('modalbg').style.height
='0'", 2000);
}

function expandIt() {
        document.getElementById('expander').style.height="200px";
}

function squishIt() {
        document.getElementById('expander').style.height="40px";
}

function moveIt() {
        document.getElementById('mover').style.left="0px";
}

function moveBack() {
        document.getElementById('mover').style.left="-200px";
}
```

flip.css

```html
<div id="frontface" onclick="flipToBack()">

<div id="backface" onclick="flipToFront()">
```

```css
#frontface {
        position:absolute;
        border:2px solid #07048C;
        top:10px;
        left:60px;
        width:200px;
        height:200px;
        transform:rotateY(0deg);
        transition-property:all;
        transition-duration:1s;
        transition-timing-function:default;
}

#backface {
        color:#000;
        border:2px solid #07048C;
        background-color:#ffe;
        position:absolute;
        top:10px;
        left:60px;
        width:200px;
        height:200px;
        transform:rotateY(-90deg);
        transition-property:all;
        transition-delay:1s;
        transition-duration:1s;
        transition-timing-function:default;
}
```

flip.js

```
function flipToBack(event) {
document.getElementById('frontface').style.transitionDelay = "0s";
document.getElementById('backface').style.transitionDelay = "1s";
document.getElementById('frontface').style.transform = "rotateY(90deg)";
document.getElementById('backface').style.transform = "rotateY(0deg)";
}

function flipToFront(event)
{
document.getElementById('frontface').style.transitionDelay = "1s";
document.getElementById('backface').style.transitionDelay = "0s";
document.getElementById('backface').style.transform = "rotateY(-90deg)";
document.getElementById('frontface').style.transform = "rotateY(0deg)";
}
```