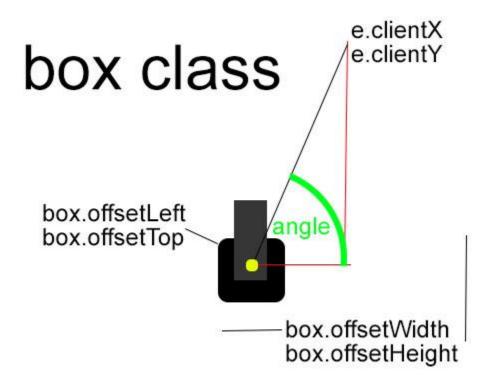
# JavaScript Math

**CSS** transform



#### Math.atan2()

The Math.atan2() function returns the arctangent of the quotient of its arguments.

```
function calcAngleDegrees(x, y) {
 return Math.atan2(y, x) * 180 / Math.PI;
console.log(calcAngleDegrees(5, 5)); //expected output: 45
console.log(calcAngleDegrees(10, 10));//expected output: 45
console.log(calcAngleDegrees(0, 10));//expected output: 90
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global Objects/Math/atan2
```

## Math.sin()

The Math.sin() function returns the sine of a number.

```
function getCircleY(radians, radius) {
 return Math.sin(radians) * radius;
console.log(getCircleY(1, 10));// expected output: 8.414709848078965
console.log(getCircleY(2, 10));// expected output: 9.092974268256818
console.log(getCircleY(Math.PI, 10));// expected output: 1.2246467991473533e-15
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global Objects/Math/sin
```

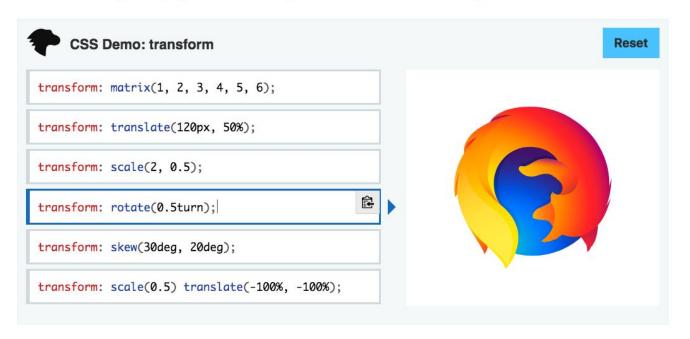
## Math.cos()

The Math.cos() static function returns the cosine of the specified angle, which must be specified in radians. This value is length adjacent length hypotenuse.

```
function getCircleX(radians, radius) {
 return Math.cos(radians) * radius;
console.log(getCircleX(1, 10));// expected output: 5.403023058681398
console.log(getCircleX(2, 10));// expected output: -4.161468365471424
console.log(getCircleX(Math.PI, 10));// expected output: -10
https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global Objects/Math/cos
```

#### transform CSS

The **transform** CSS property lets you rotate, scale, skew, or translate a given element. This is achieved by modifying the coordinate space of the CSS visual formatting model.



https://developer.mozilla.org/en-US/docs/Web/CSS/transform