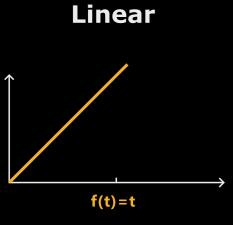
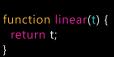
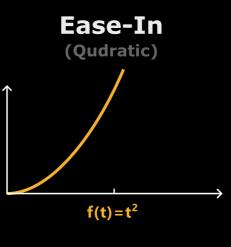
## **Timing Functions**



a reference when creating animations in JavaScript



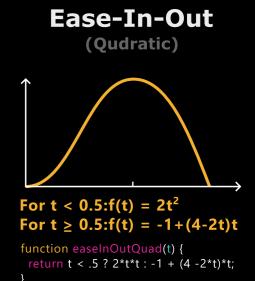


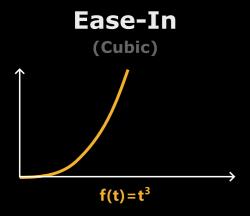


function easeInQuad(t) {
 return t\*t;
}

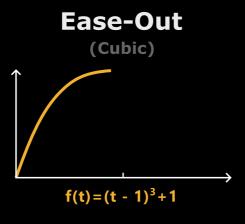
# Ease-Out (Qudratic) f(t)=t(2-t)

function easeOutQuad(t) {
 return t\*(2 - t);
}

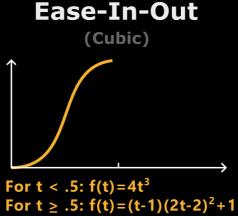


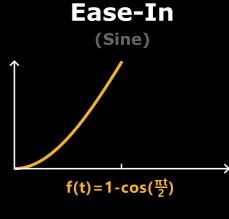


function easeInCubic(t) {
 return t\*t\*t;
}



function easeOutCubic(t) {
 return (--t)\*t\*t+1;
}





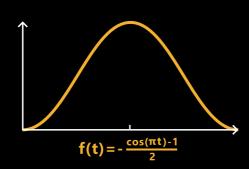
function easeInSine(t) {
 return 1 - Math.cos(t\*Math.PI/2);
}

# Ease-Out (Sine)

 $f(t) = \sin(\frac{\pi t}{2})$ 

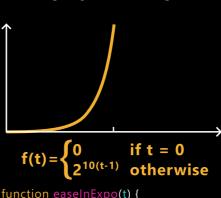
function easeOutSine(t) {
 return Math.sin(t\*Math.PI / 2);
}

### Ease-In-Out (Sine)



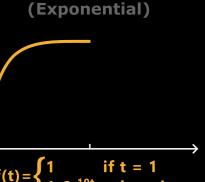
function easeInOutSine(t) {
 return -(Math.cos(Math.PI\*t)-1) / 2;

#### Ease-In (Exponential)



function easeInExpo(t) {
 return t === 0 ?
 0 : Math.pow(2, 10 \* (t - 1));
}

#### **Ease-Out**



```
function easeOutExpo(t) {
return t === 1 ?
1 : 1 - Math.pow(2, -10 * t);
```

#### **Ease-In-Out**

