**sketch02.js**

// Adding accelaration

// al 12 November 2016

function setup() {

createCanvas(1000,600);

background("#fefefe");

t = new Thing;

}

function draw() {

gMousePos = createVector(mouseX,mouseY);

t.update();

t.render();

}

function Thing() { // thing constructor

this.d = 40;

this.maxSpeed = 10;

// euclidean velocity - start in centre of canvas with a random velocity

this.pos = createVector(20,20);

this.vel = createVector(0,0);

this.acc = createVector(0,0);

this.update = function() {

this.vel.add(this.acc);

this.pos.add(this.vel);

} // update

this.render = function() {

background("#fefefe");

noStroke();

fill(255,0,0,150);

ellipse(this.pos.x,this.pos.y,this.d);

} // show

} // Thing