

```
1  package ch.hevs.gdx2d.lunar.physics;
2
3  import com.badlogic.gdx.math.Vector2;
4
5  import ch.hevs.gdx2d.components.bitmaps.BitmapImage;
6  import ch.hevs.gdx2d.lib.GdxGraphics;
7  import ch.hevs.gdx2d.lib.interfaces.DrawableObject;
8
9  public class Particles implements DrawableObject{
10
11     private Vector2 position;
12     private Vector2 speed;
13
14     private float alpha;
15     private BitmapImage img;
16
17     private int lifetime;
18
19     public Particles(Vector2 p, Vector2 s, int lifetime, String imgPath) {
20         this.position = p;
21         this.speed = s;
22         this.lifetime = lifetime;
23
24         this.alpha = 1f;
25         this.img = new BitmapImage(imgPath);
26     }
27
28     public void update() {
29         this.position.add(this.speed);
30         alpha -= 1.0f/lifetime;
31     }
32
33     public void changePosition(float x, float y) {
34         this.position = new Vector2(x,y);
35     }
36
37     public boolean shouldBeDestroyed() {
38         return (alpha <= 0.01f);
39     }
40
41     @Override
42     public void draw(GdxGraphics arg0) {
43         arg0.drawAlphaPicture(this.position, this.alpha, this.img);
44     }
45 }
46
```