```
particle
+ pos
+ vel
+ maxVelocity
+ r
+ m
+t
+ tlc
+ nr
+ color
+ particle()
+ set mass()
+ set r()
+ set pos()
+ set_vel()
+ set maxVelocity()
+ step()
+ get distance()
+ get_velocity()
+ get time to collision()
+ get info()
             +part
      part particles
    + nr
    + part particles()
```