```
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()
```