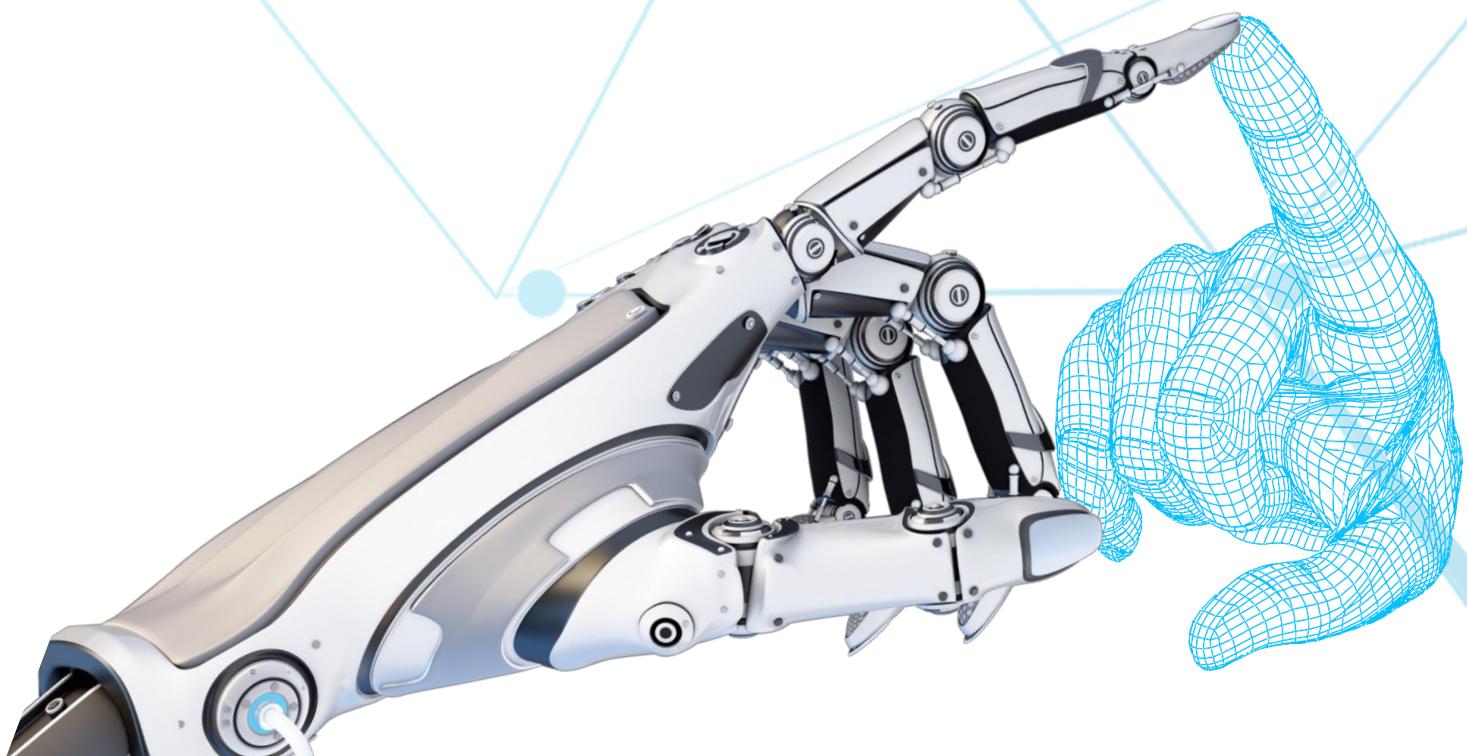


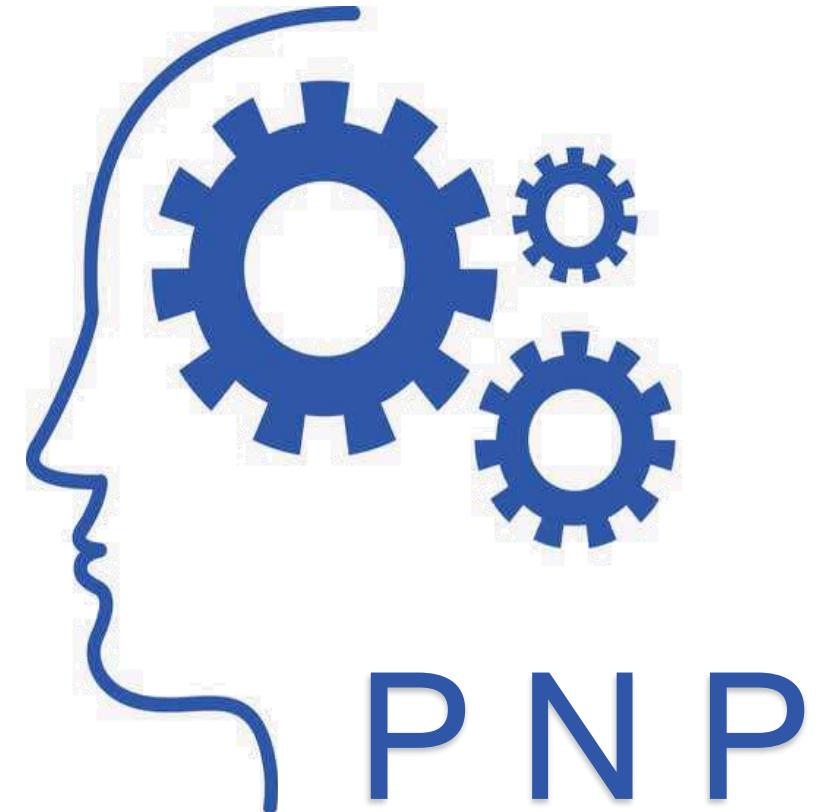
# 菠萝智能机器人课程

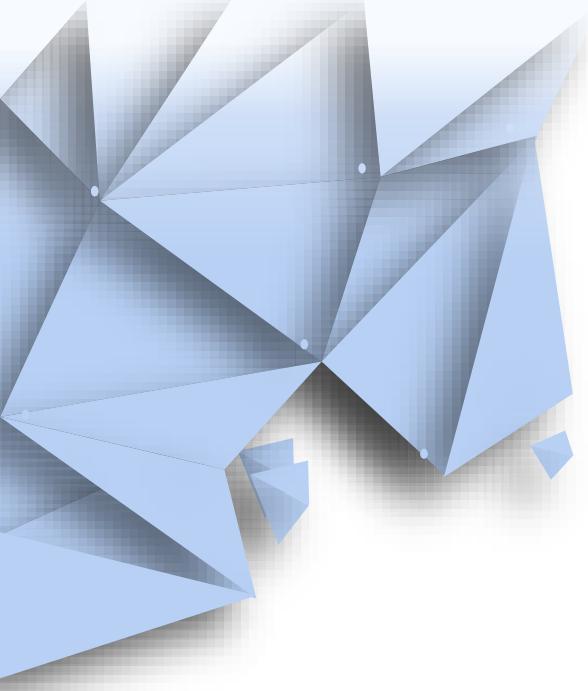
底盘结构学习



## 课堂要求

- ①珍惜并保护你所拥有的
- ②看清楚你能看清楚的一切
- ③去想你不曾想过的方案
- ④做好你应该做的事
- ⑤赞美你的伙伴，你们是一个团队

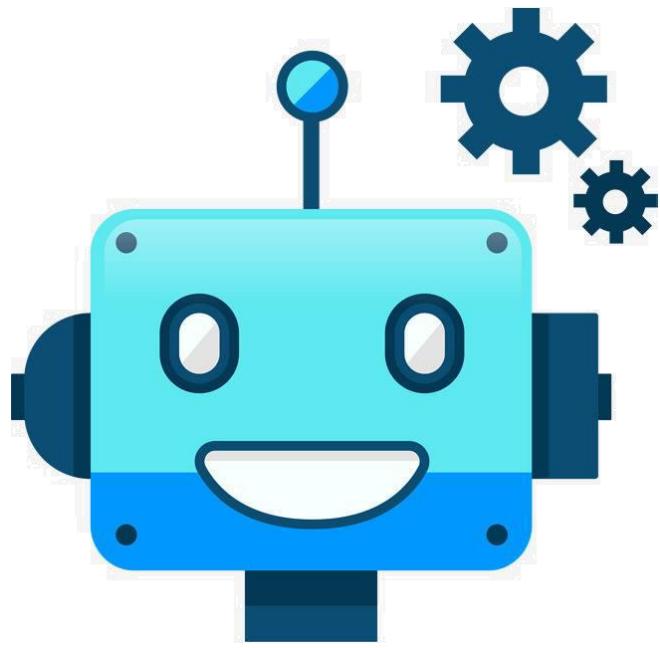




# 目录

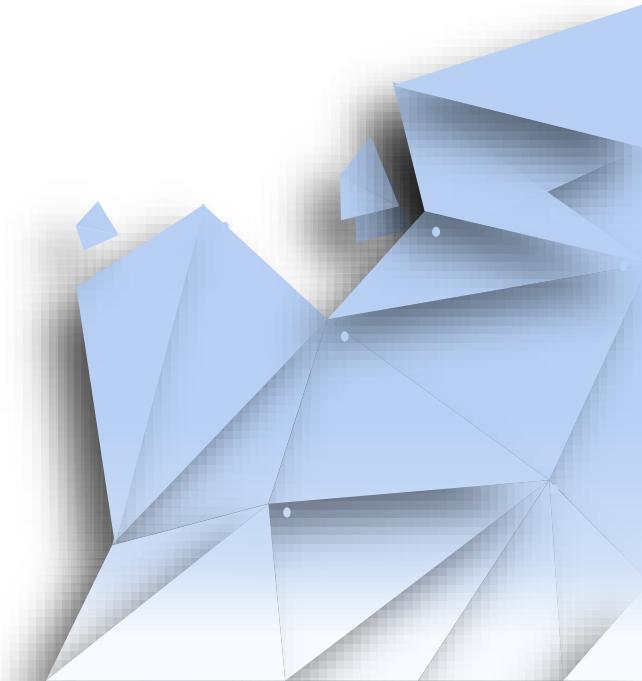
## CONTENTS

- 1 复习回顾**
- 2 新知学习**
- 3 动手实践**
- 4 分享总结**



## PART 01

# 复习回顾



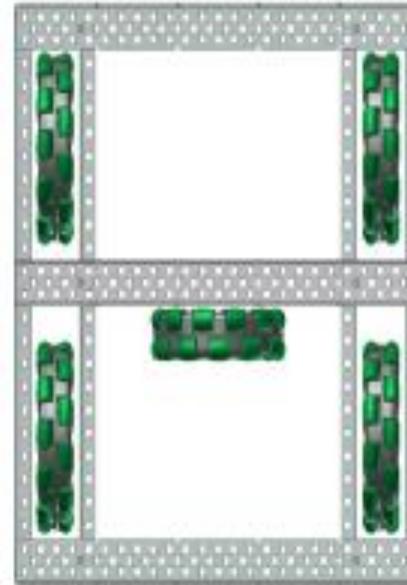
## 一. 复习回顾——底盘结构

底盘是机器人移动并承载其他零件和结构的基础部分。

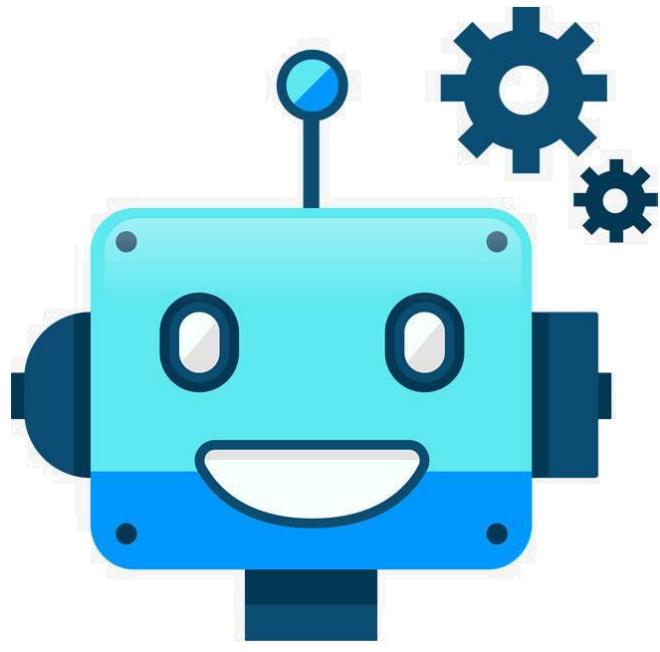
### 常见底盘



四边形底盘

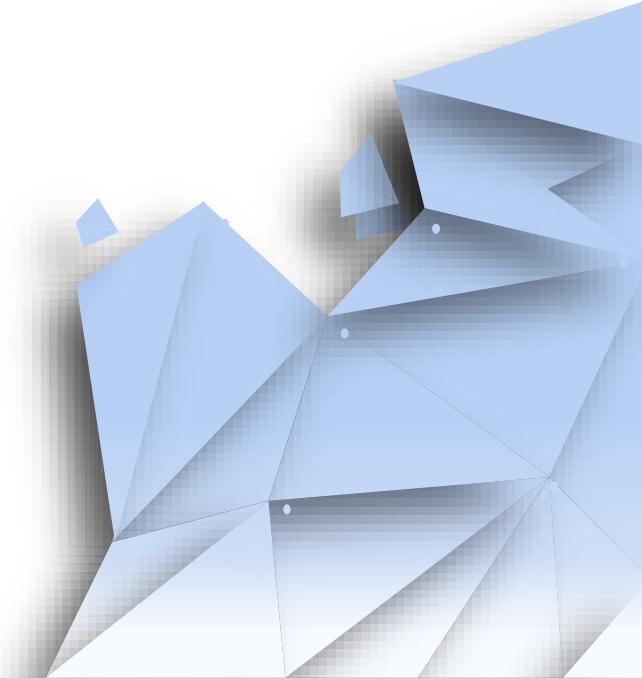


工字型底盘



## PART 02

# 新知学习

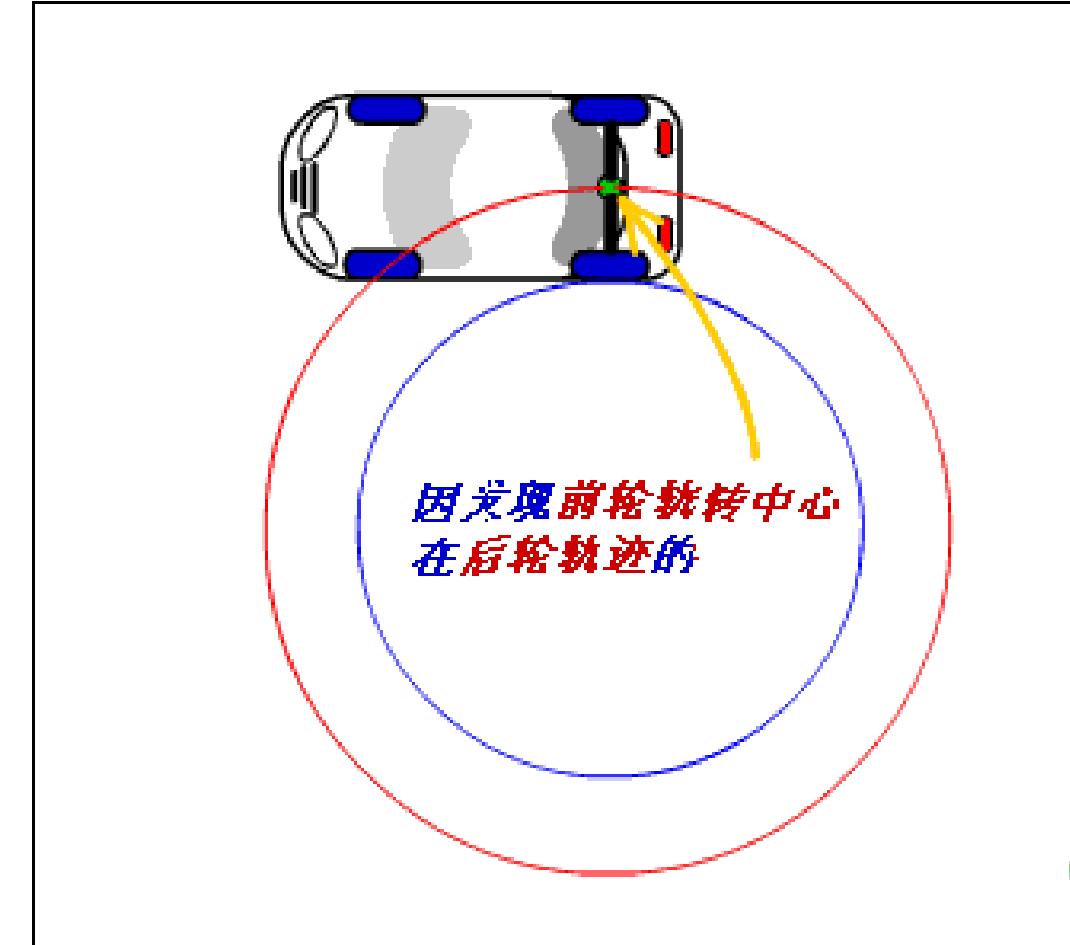


## 二. 新知学习——底盘的拐弯



### 底盘的拐弯

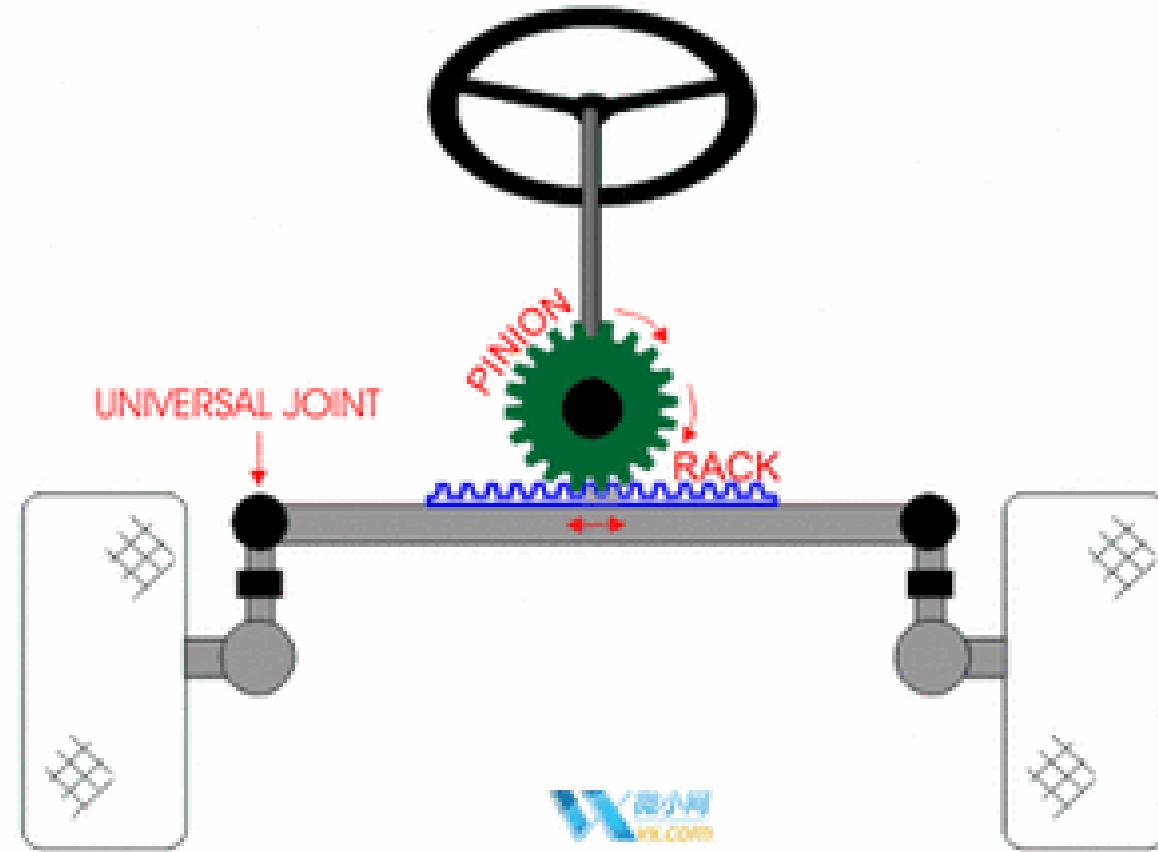
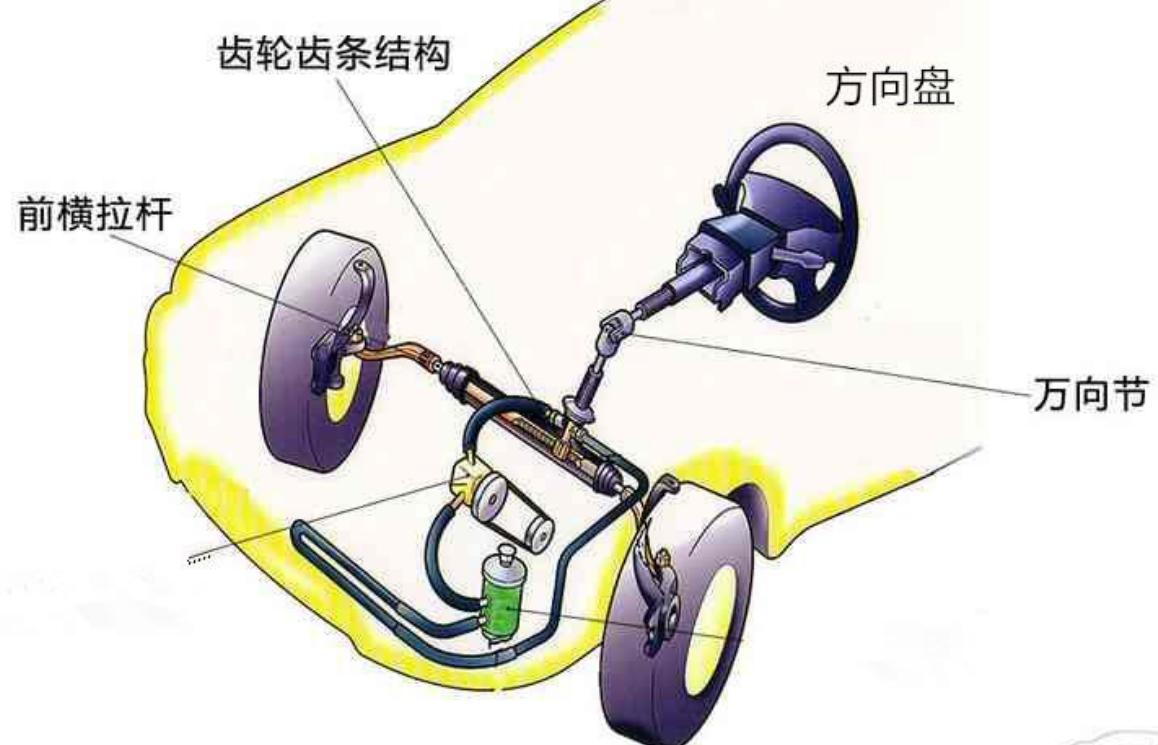
由于通过拐弯时两侧轮子的运行轨迹并不一样，底盘的拐弯常用方式——导向拐弯及差速拐弯



## 二. 新知学习——底盘的拐弯

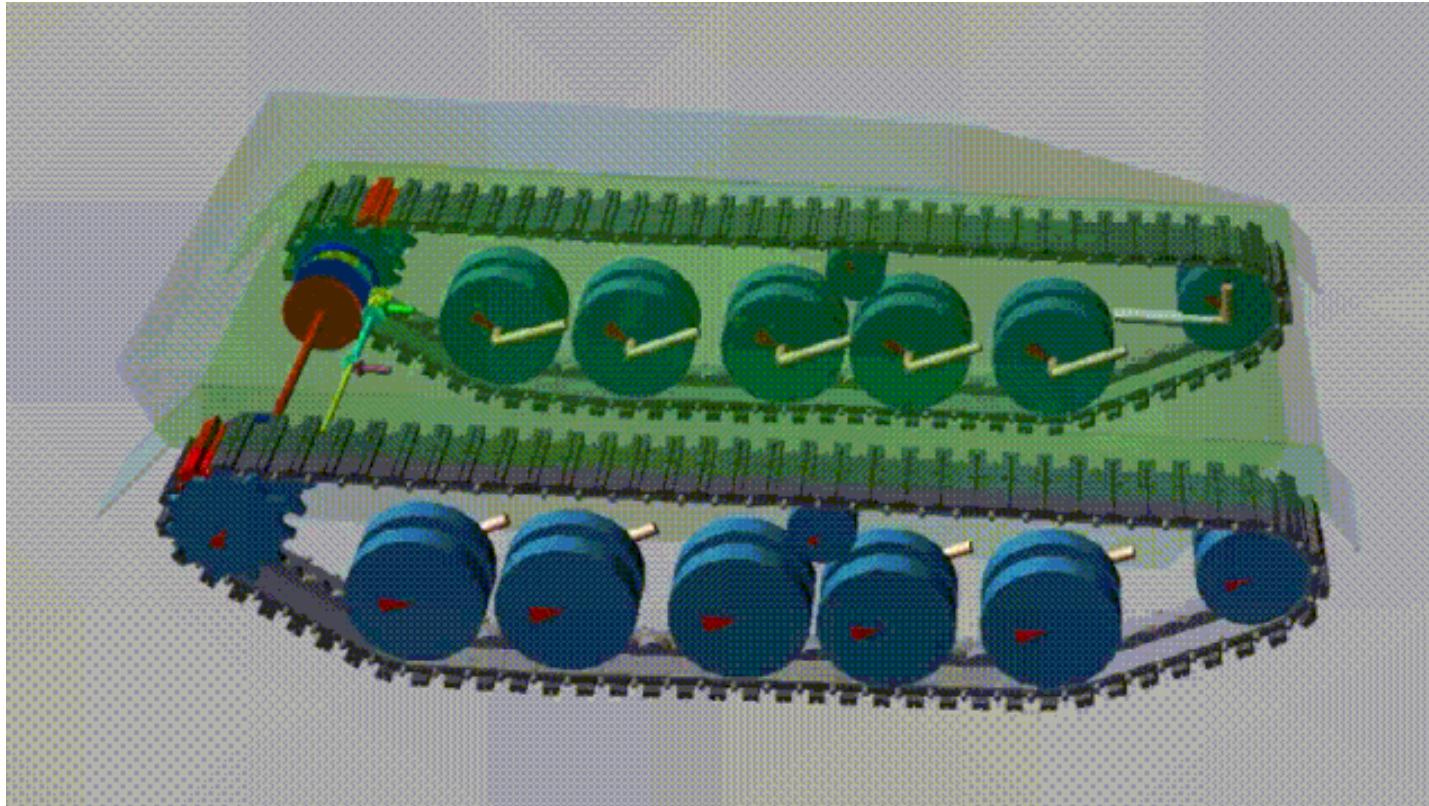
导向拐弯：通过齿轮齿条的结构实现前轮方向改变，从而带动整体拐弯。常用于汽车上。

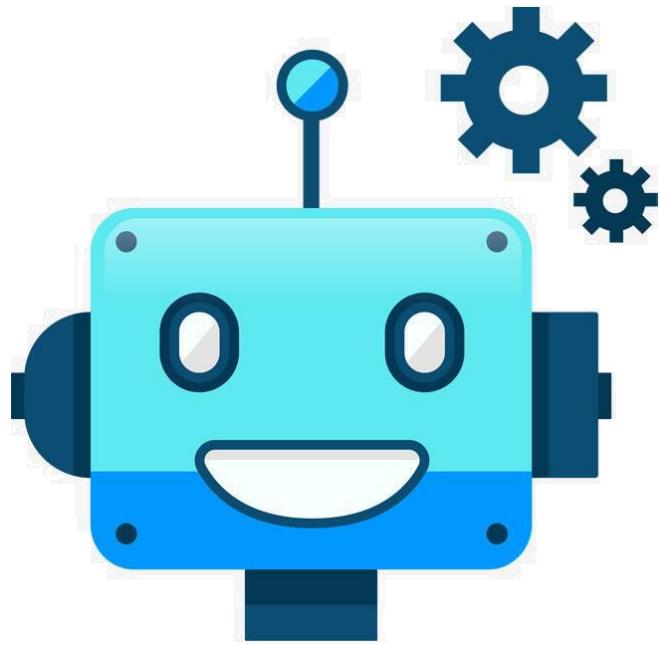
转向系统结构示意图



## 二.新知学习——底盘的拐弯

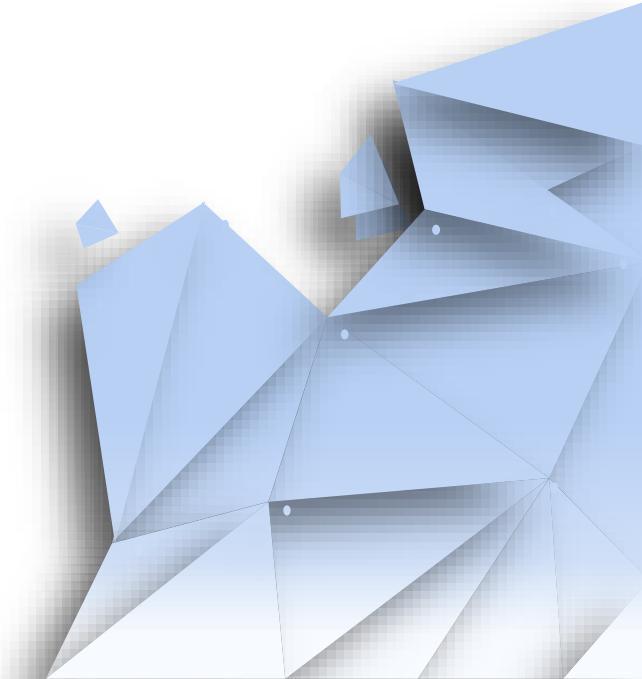
差速拐弯：通过两侧轮子的速度差或正反转相反实现拐弯效果，常用于一些轮子不能变向的底盘，如坦克的履带底盘。





## PART 03

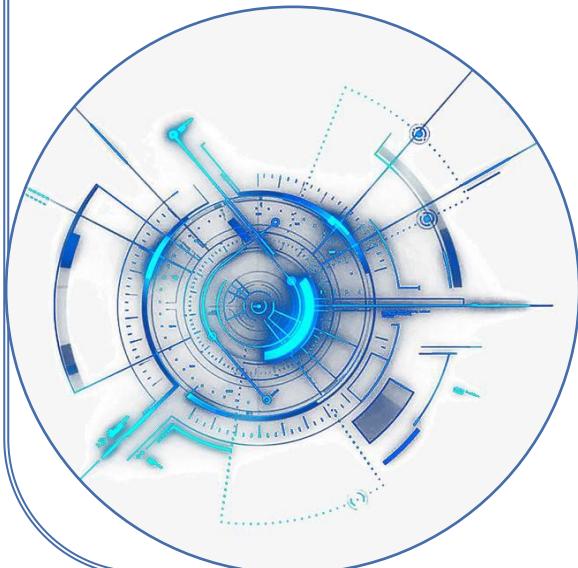
# 动手实践

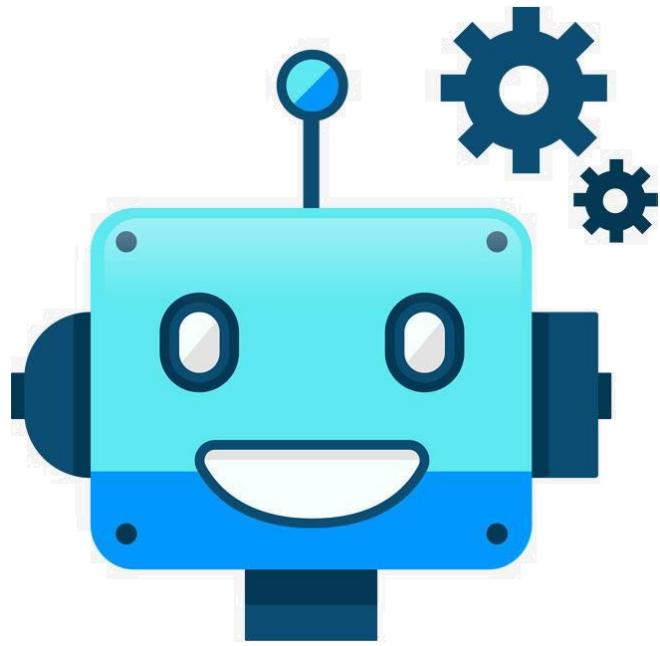


### 三.动手实践——任务

Mission:

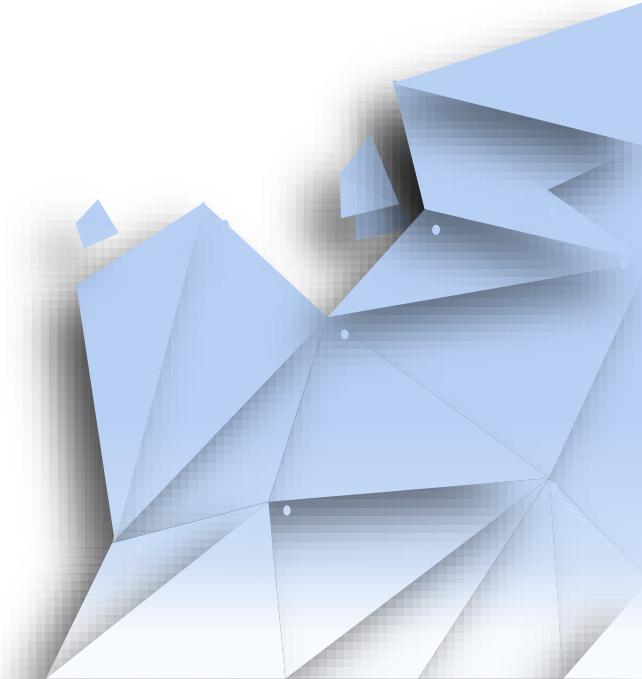
尝试能否搭建出两种拐弯的  
底盘，并思考哪种更容易搭  
建使用





## PART 04

# 分享总结

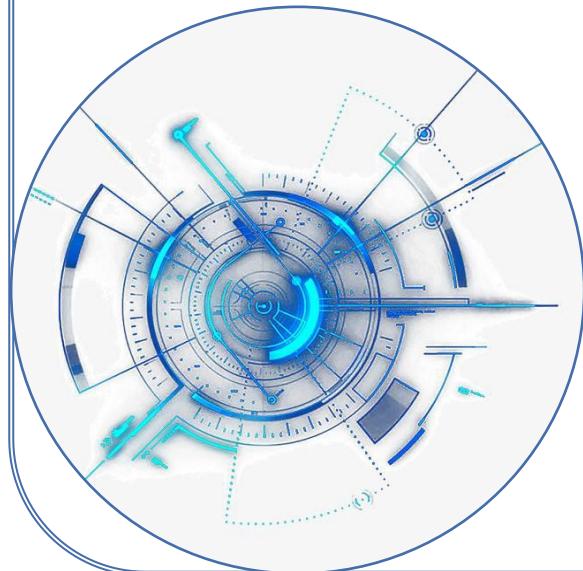


## 四. 分享总结——学生分享

对比之前搭建的底盘，

讨论使用的是什么拐弯

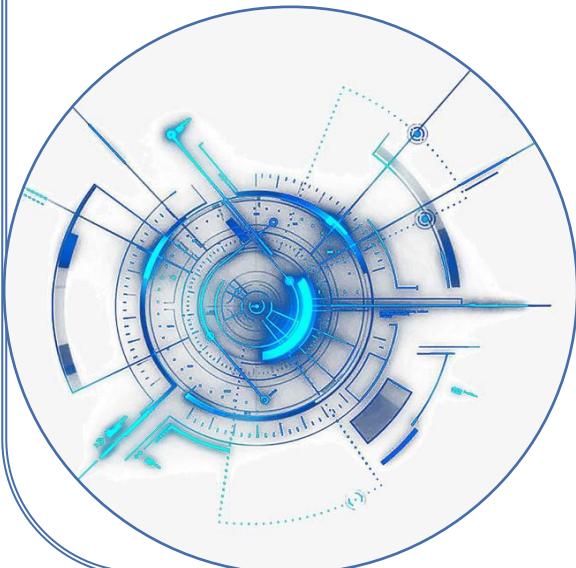
方式

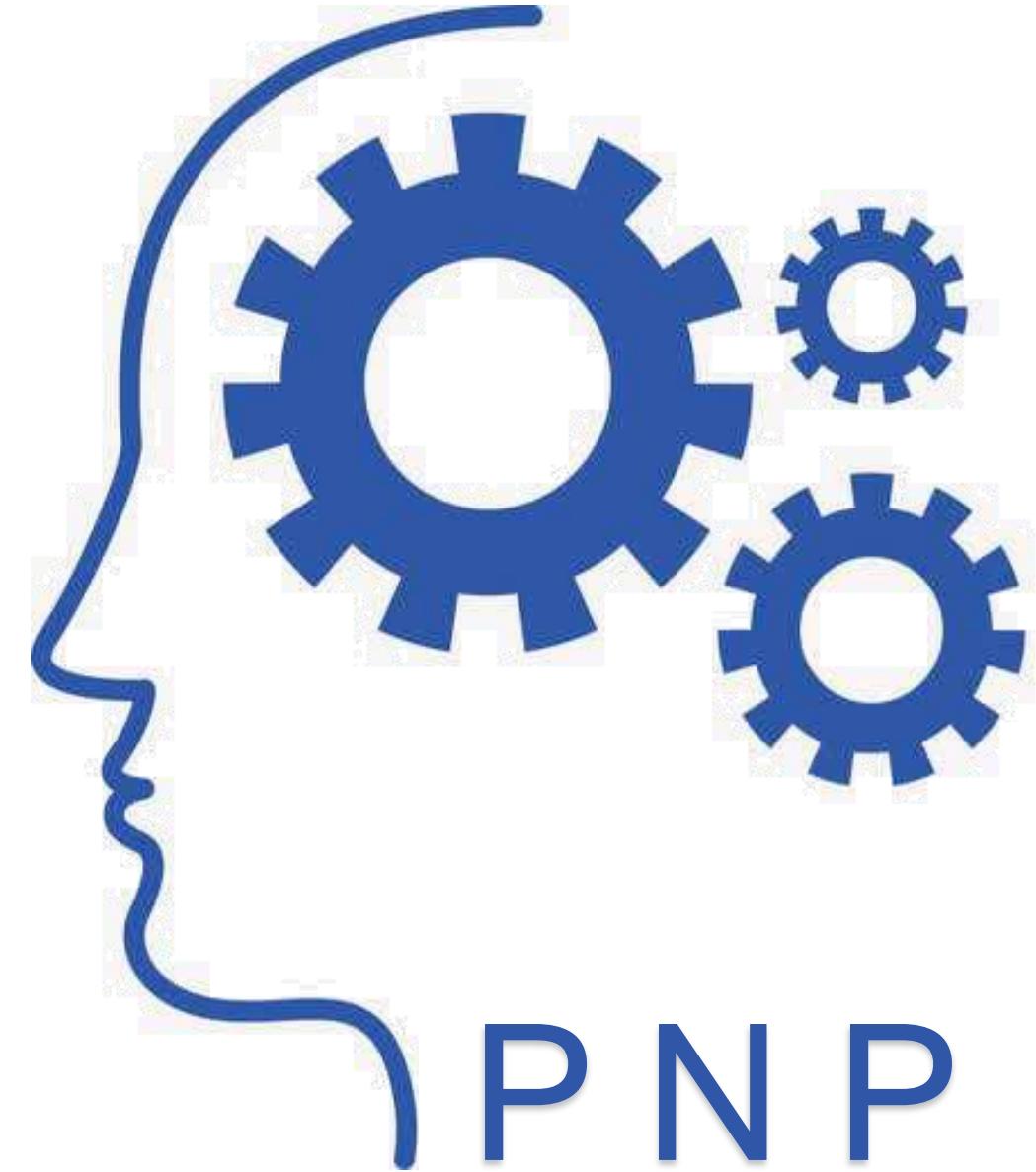


## 四. 分享总结——课后作业

Mission:

思考有底盘的转向或移动还有其他的方式吗？





谢谢观看