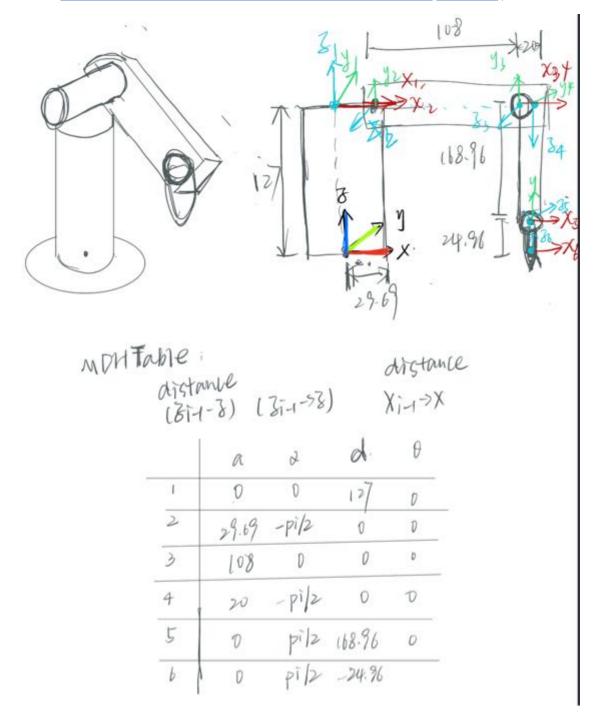
Task1

定轴问题

参考资料: 详解PUMA 560机械臂的改进D-H参数和标准D-H参数表示 - 知乎 (zhihu.com)



初始角度

由于这样定轴joint2存在初始角度问题,设为pi/2 joint5的角度根据实际机器人调整/coppelia初始为竖直向下

Task 2

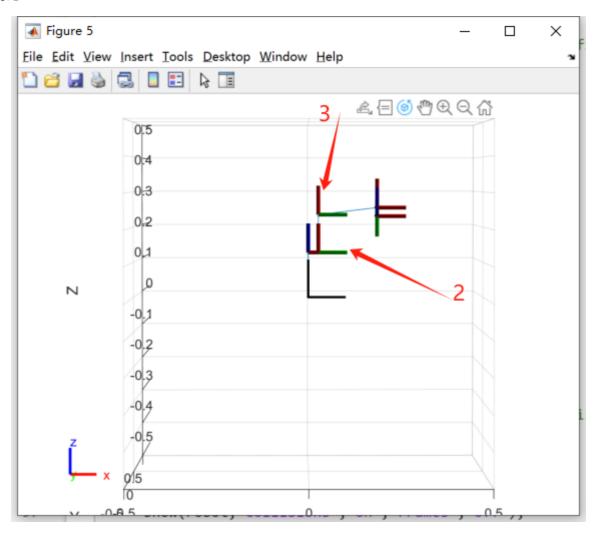
1. 各个关节matlab 和 coppelia对应的不一样

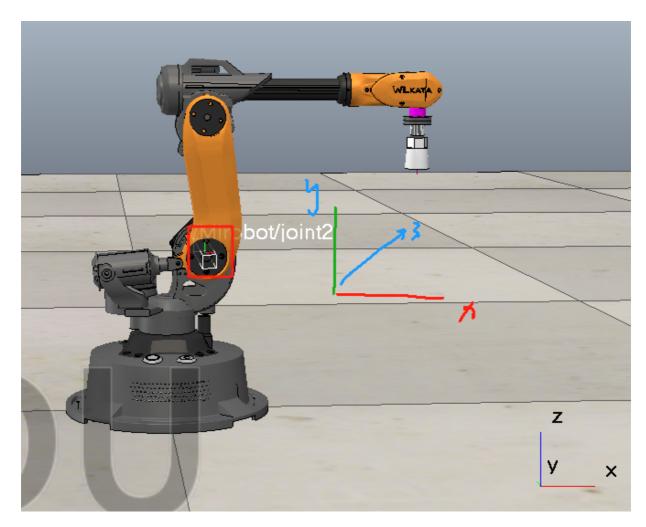
注意:配图错误,因为coppelia和现实不一样,以matlab为准,解决方案更改为coppelia里面的angle进行取反

joint2

x,y,z轴

对比

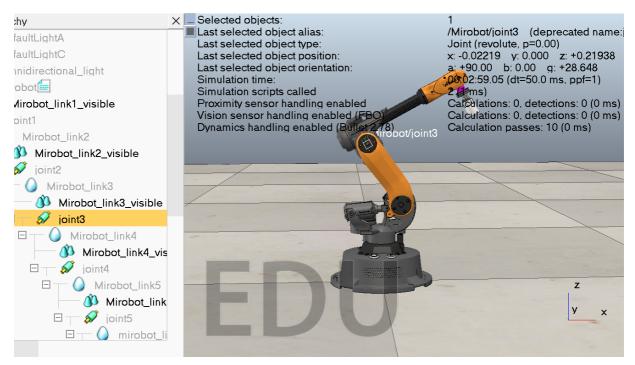




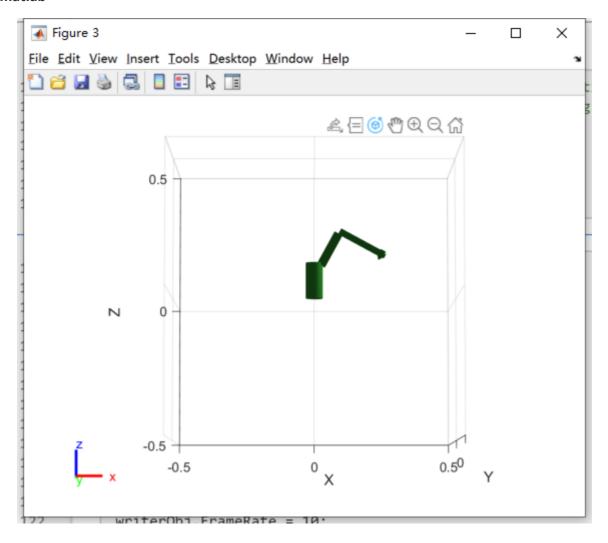
姿态对比(不一致):

pi/6

coppelia

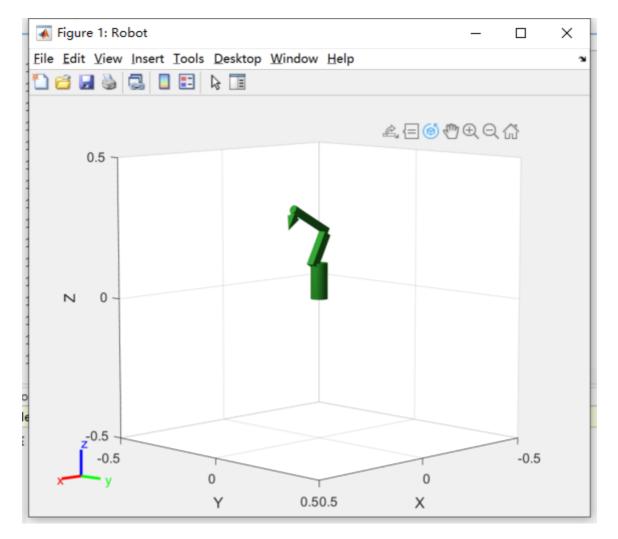


matlab



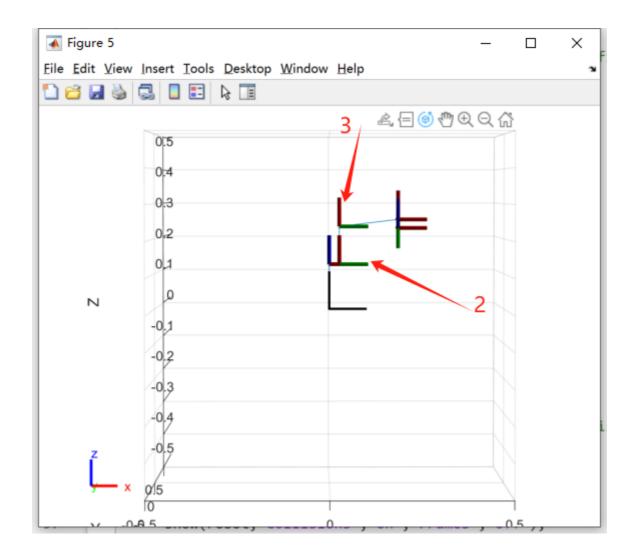
解决方案

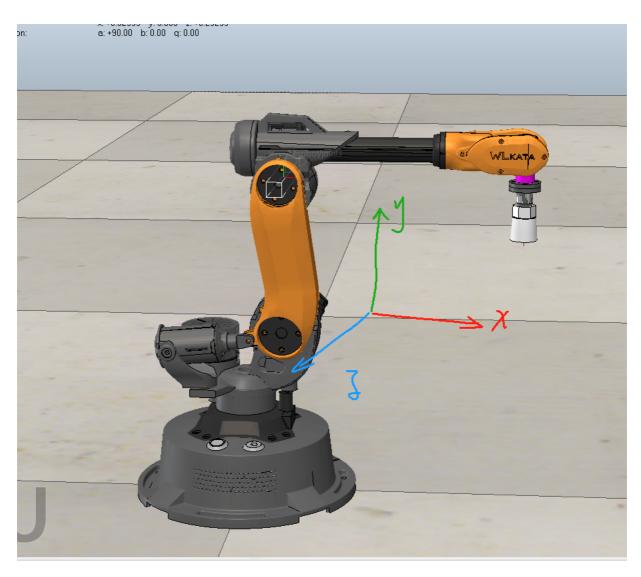
取负



joint3

x,y,z轴对比

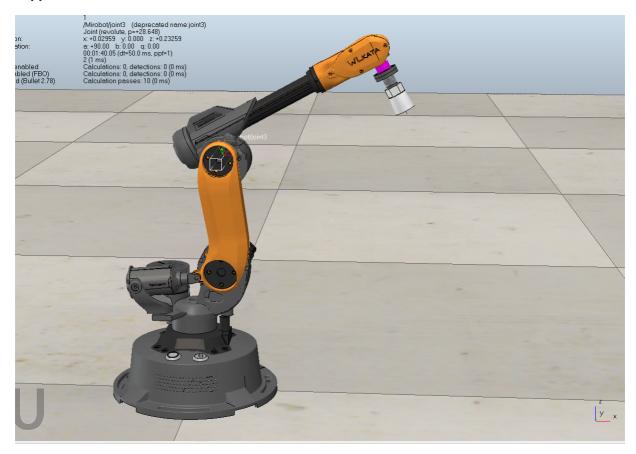




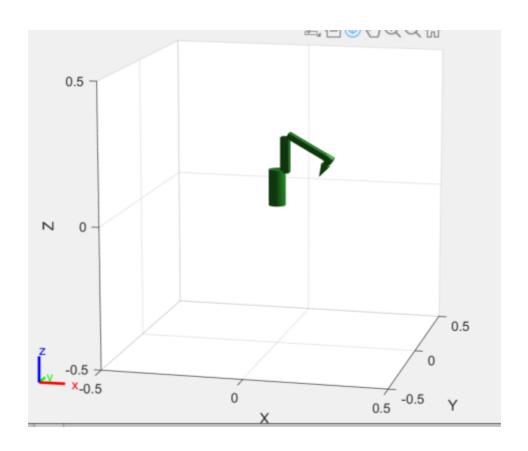
姿态对比(不一致):

pi/6

coppelia

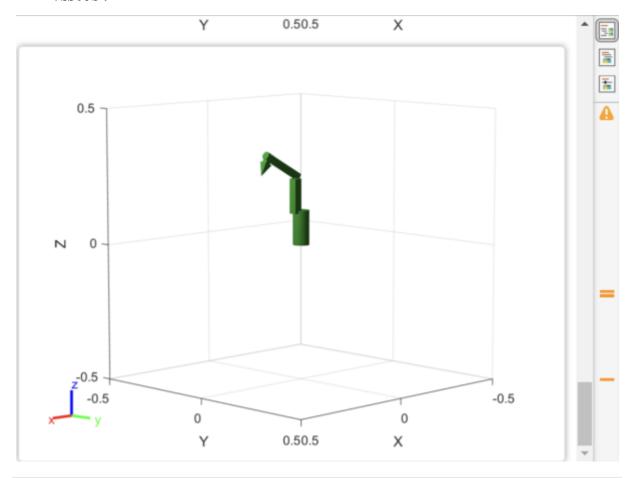


matlab



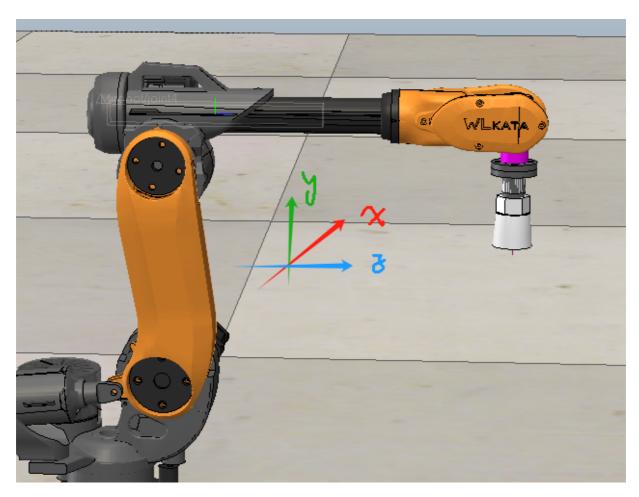
解决方案

matlab角度取负



joint4

x,y,z轴对比



姿态对比 (一致)

coppelia



