Visualizing MuJoCo model (xml files)
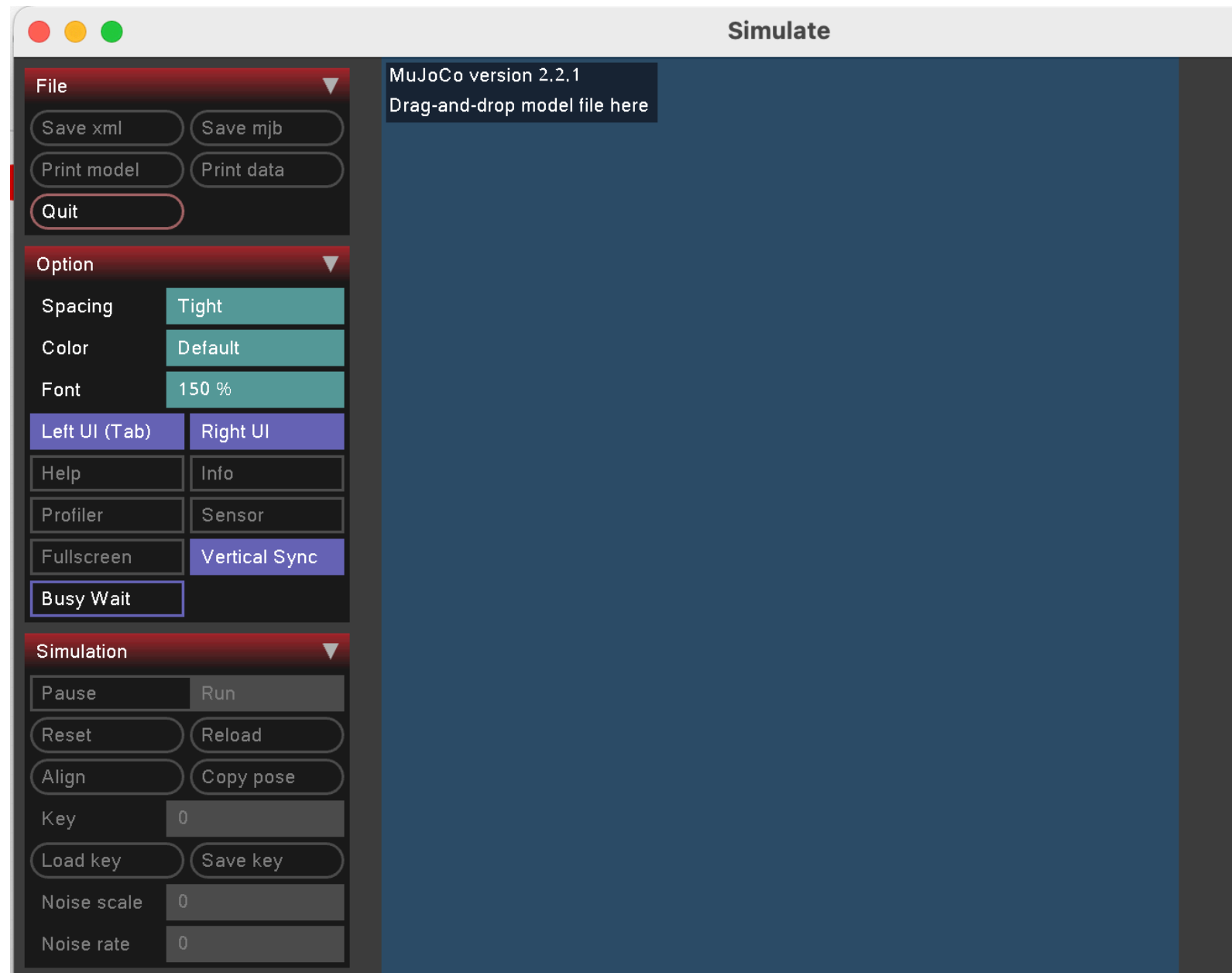
You need a program called simulate (linux/windows) or MuJoCo app to interactively view/edit xml files

i. Download the relevant files to your operating system: https://github.com/deepmind/mujoco/releases (current version 2.2.1)

ii. You can also watch the videos for Win/Mac/Linux installation, the C version, here: tiny.cc/mujocopy2

Running MuJoCo model visualizer

- Mac: Open the MuJoCo app (I show it in this video)

- Win: Navigate to bin folder and double click simulate

- Linux: In terminal, go to bin folder and type ./simulate

Drag/drop xml files in simulate

- Save the example as hello.xml https:// mujoco.readthedocs.io/en/latest/overview.html? highlight=hello.xml#examples

- Drag / drop hello.xml on simulate/MuJoCo app to view

- Use the MuJoCo XML documentation to edit .xml files (bookmark this page): https://mujoco.readthedocs.io/en/ latest/XMLreference.html

Planar, 2-link manipulator (model)
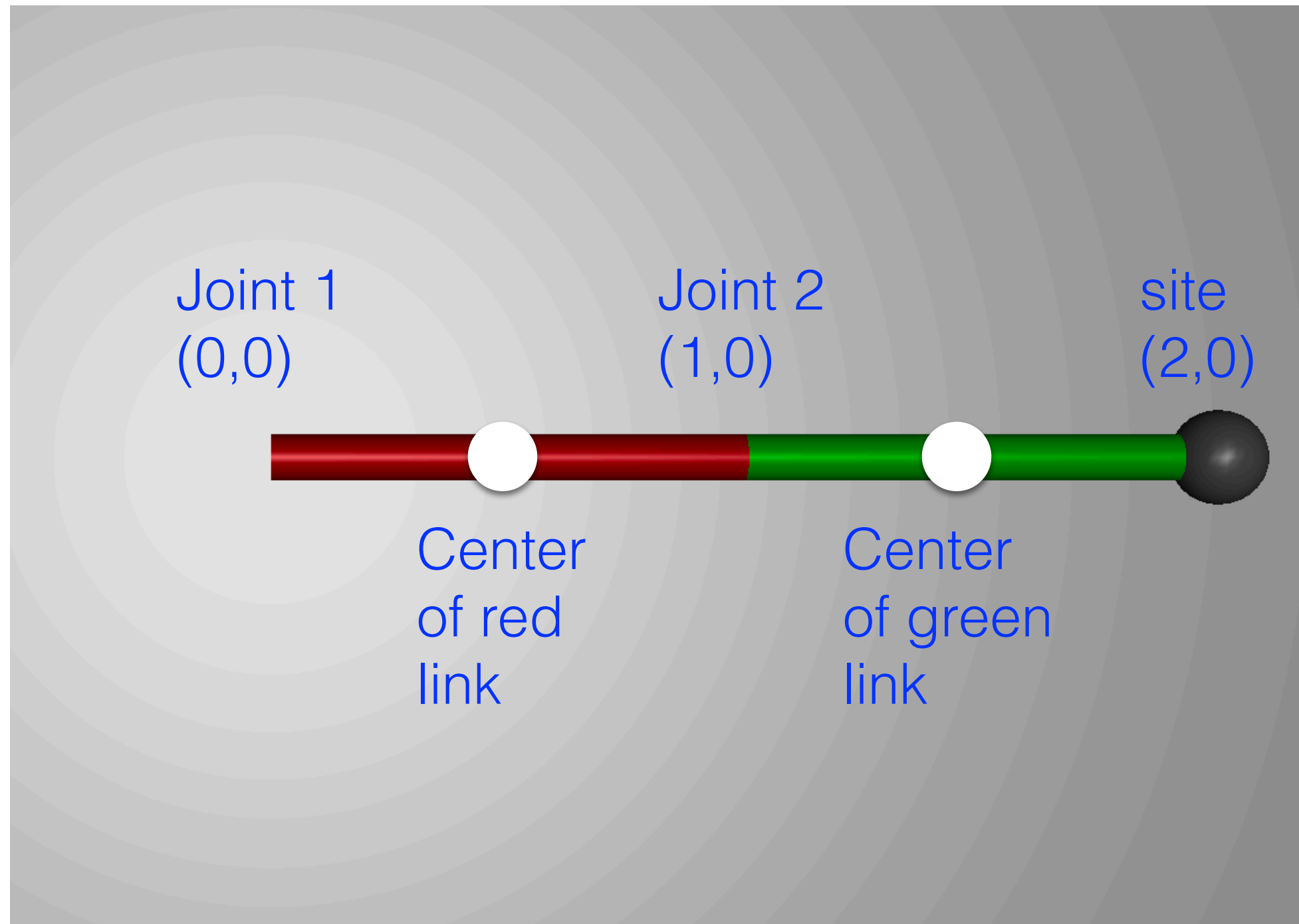
Planar, 2-link manipulator (kinematics)
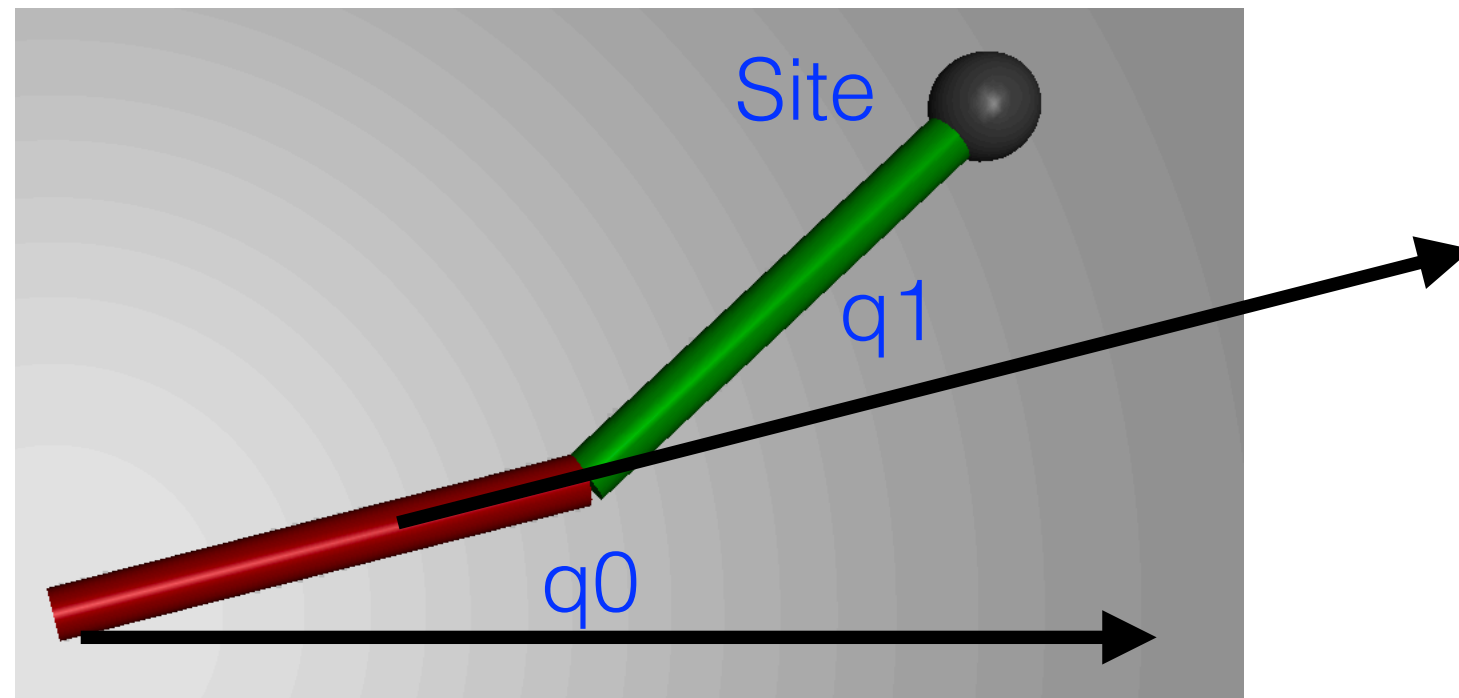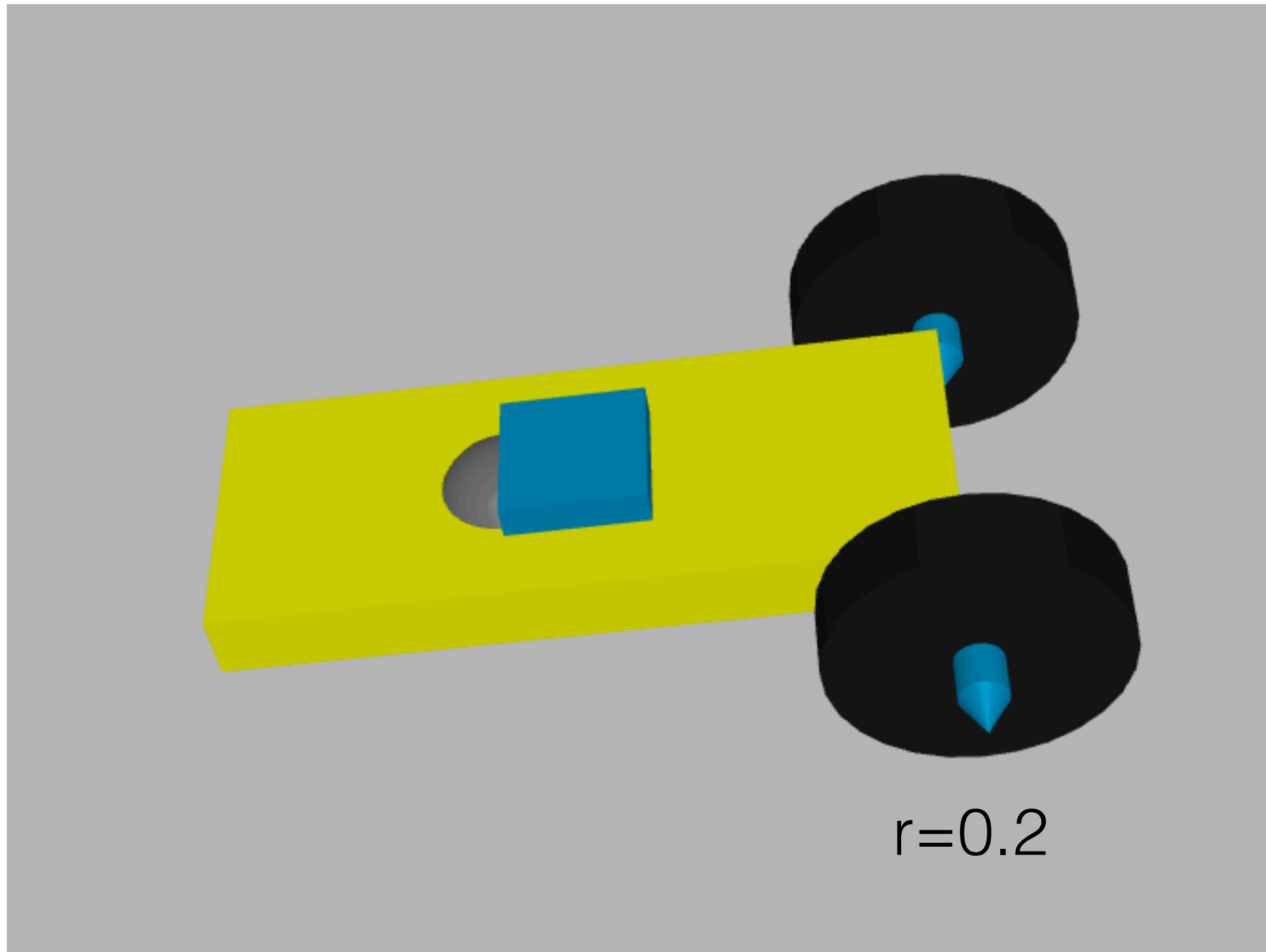

data.qpos[0] = q0; data.qpos[1] = q1   #set position
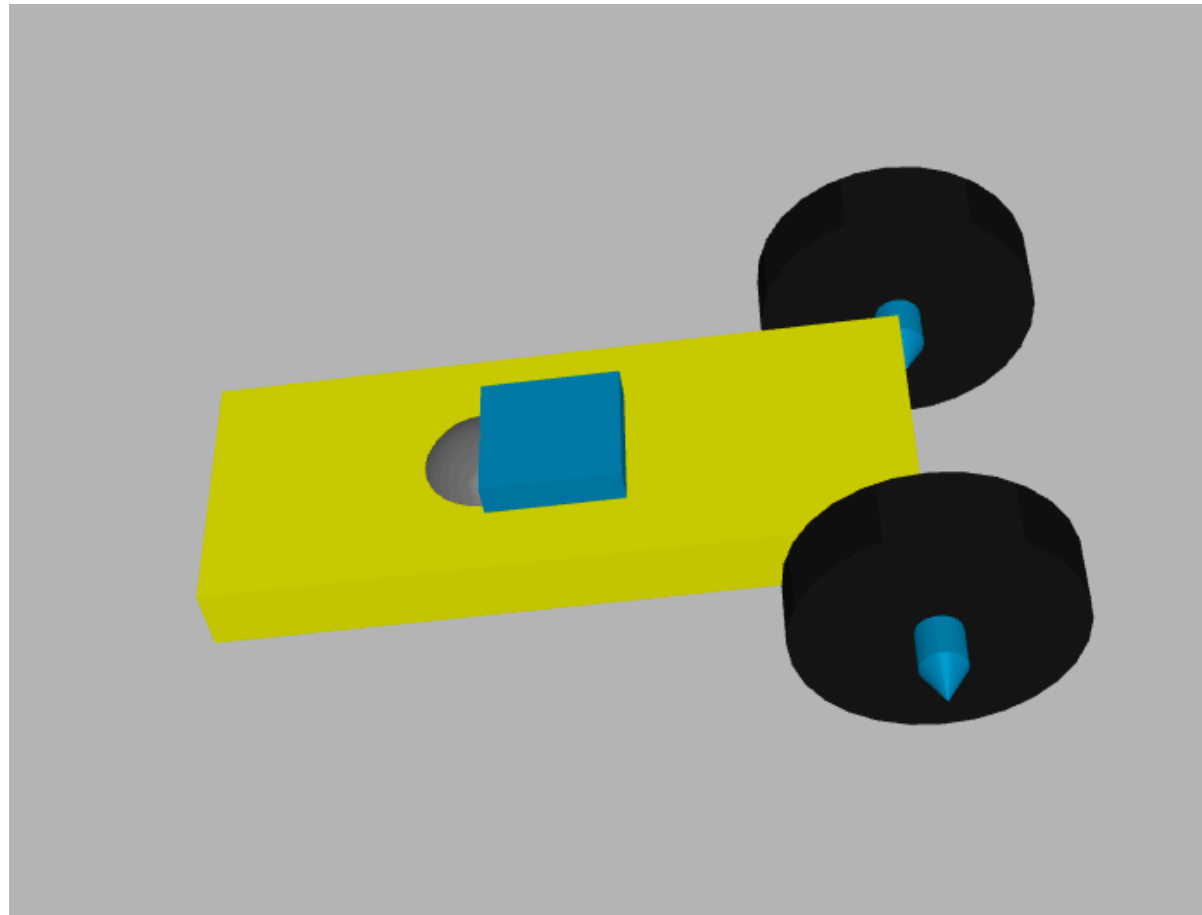
mj_forward(model,data)   #forward kinematics

data.site_xpos[0]   #get site position

Differential Drive Car (model)

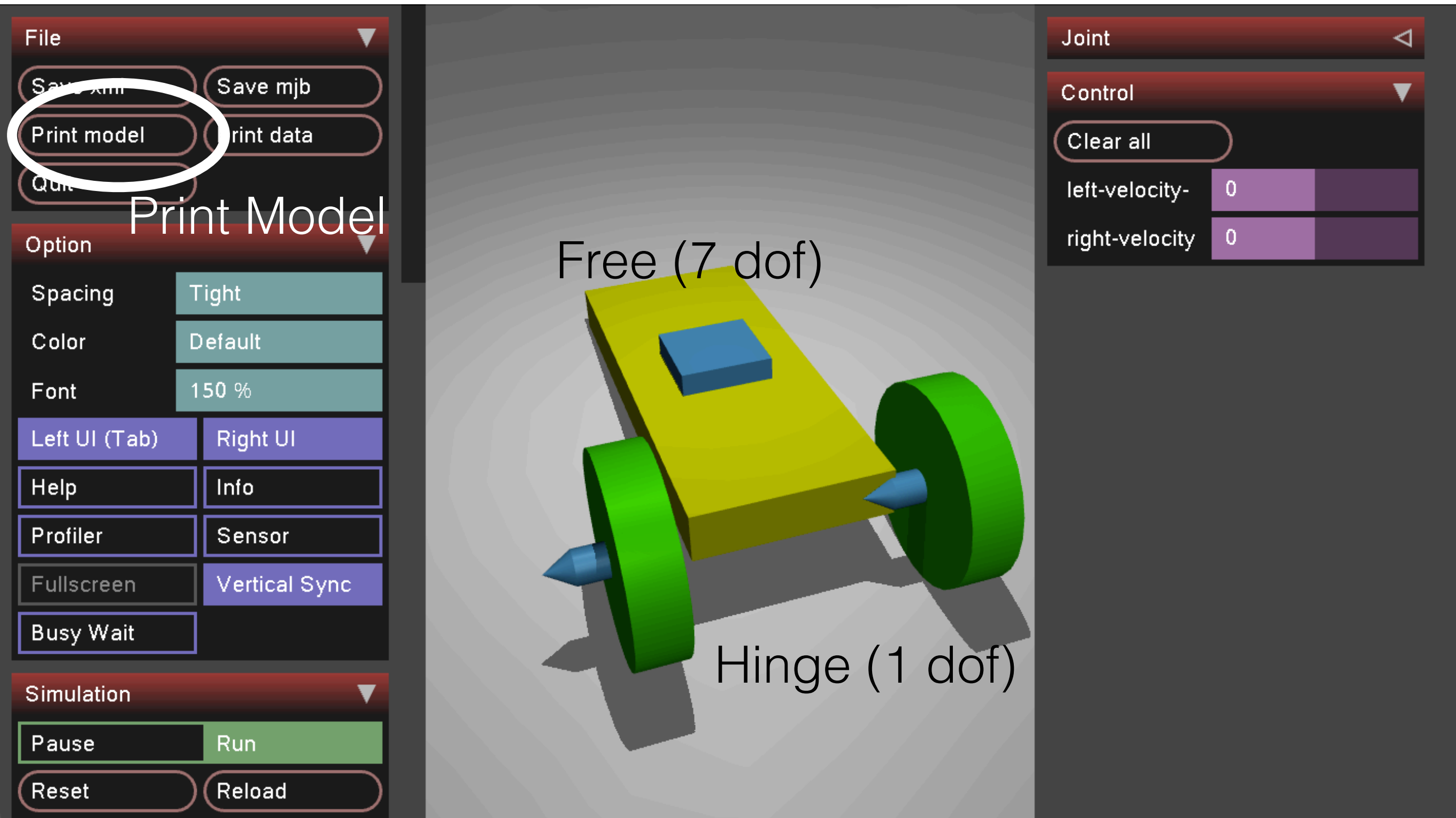

r=0.2

Differential Drive Car (control)

Simulator: data.ctrl   #set target velocity

mj_step(model,data)   #dynamic simulate

data.qpos, data.site_xpos   #query dof/site

Differential Drive Car (model info)

MJMODEL.txt —> Mac App / Right Click / Finder / Resources
Win/Linux in folder with Simulate Executable