MuJoCo: control a simple pendulum (1)

Using template to get started

- 1. From tiny.cc/mujoco download template.zip and unzip in myproject
- 2. Rename folder template to control_pendulum
- 3. Rename hello.xml to pendulum.xml
- 4. Make these three changes
 - main.c line 13, change template/hello.xml to control_pendulum/ pendulum.xml
 - makefile change ROOT = template to ROOT = control_pendulum also UNCOMMENT (remove #) appropriate to your OS
 - 3. run_unix OR run_win.bat change <template> to <control_pendulum>
- 5. In the *shell, navigate to control_pendulum and type ./run_unix (unix) or run_win (windows); *shell = terminal for mac/linux and x64 (visual studio) for win

MuJoCo: control a simple pendulum (2)

Modify pendulum.xml

- 1. Create free swinging pendulum
- 2. Add 3 actuators: torque control, position servo, velocity servo
- 3. Add sensors: position and velocity

Modify main.c

- 4. Torque control with/without sensor noise
- 5. Position servo (spring)
- 6. Velocity servo (speed control)
- 7. Position and velocity servo (position control)