



Motion Prompt

Motion List

Grab Support
Hold Push

Path List

In Place
Walk Straight
Walk to Left/Right

Object List

Balloon Thermos
Barbell Luggage
⋮

"Subject picks up a barbell from the ground by grabbing it with two hands, palms contacting its barbell bar, then stands in place, and finally places it on the table."

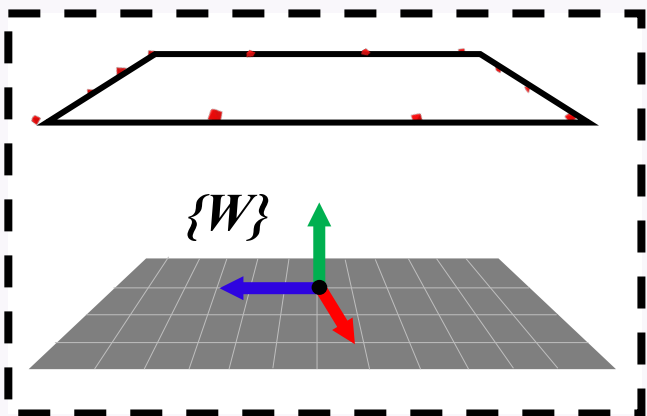
Augment




LLM

1. Subject lifts a barbell off the ground by grabbing it using two hands, palms wrapped around its barbell bar, then moves holding position, and finally puts it on the table.
2. ...

Motion Data Acquisition

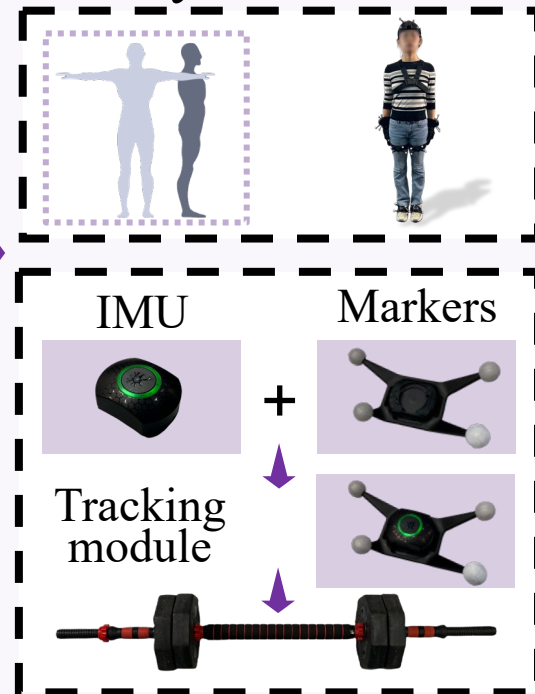
Camera/Site Calibration



 X-axis
 Y-axis
 Z-axis

$\{W\}$: World coordinate

Body Calibration



Object Bias Correction

Motion Capture



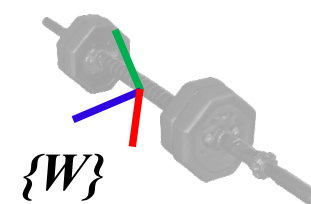
Post-processing

Mocap Human Data

Fit Joints

Correct Fingers

SMPL-X Params



6DoFs

Mesh

