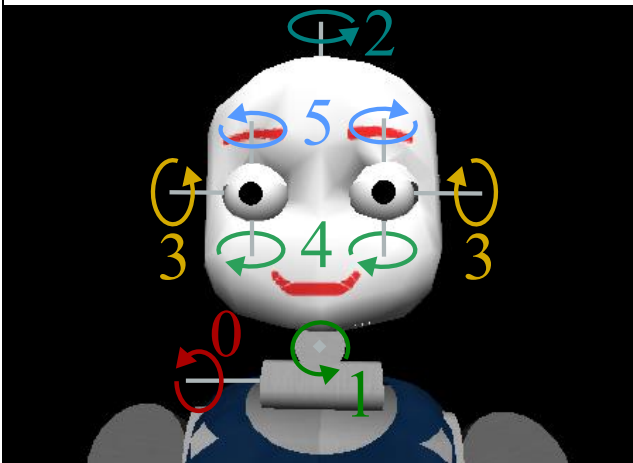
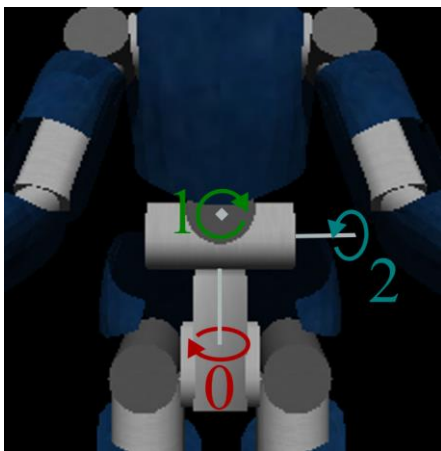


Head (part: “head”)



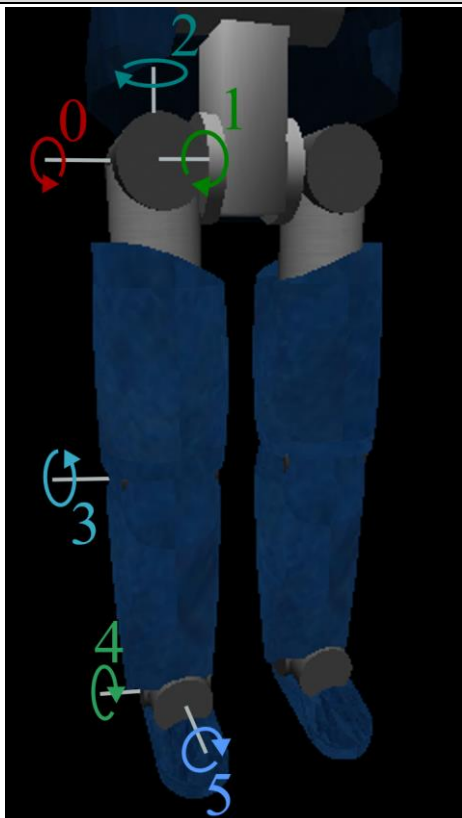
| <i>Joint</i> | <i>Description</i> | <i>Minimum</i> [°] | <i>Maximum</i> [°] |
|--------------|--------------------|--------------------|--------------------|
| 0 | Neck pitch | -40.0 | 30.0 |
| 1 | Neck roll | -70.0 | 60.0 |
| 2 | Neck yaw | -55.0 | 55.0 |
| 3 | Eyes tilt | -35.0 | 15.0 |
| 4 | Eyes version | -50.0 | 52.0 |
| 5 | Eyes vergence | 0.0 | 90.0 |

Torso (part: “torso”)

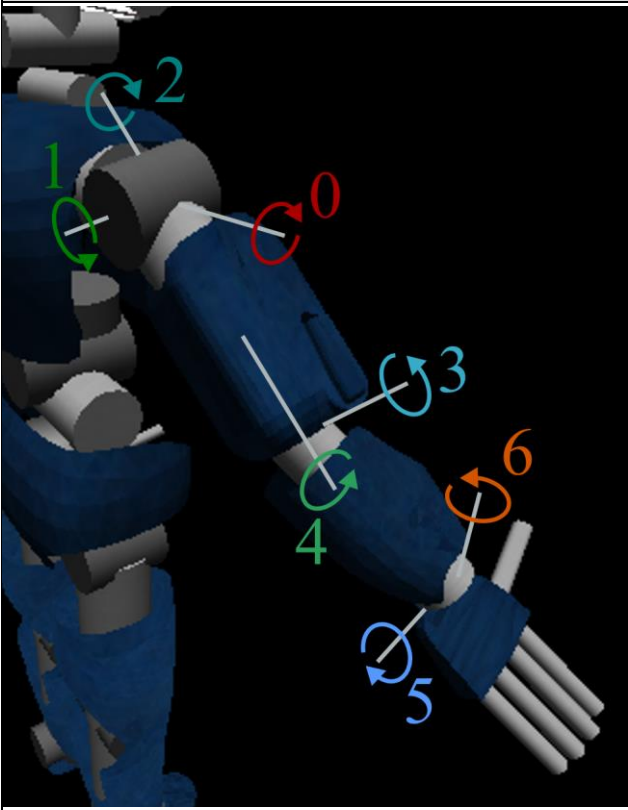
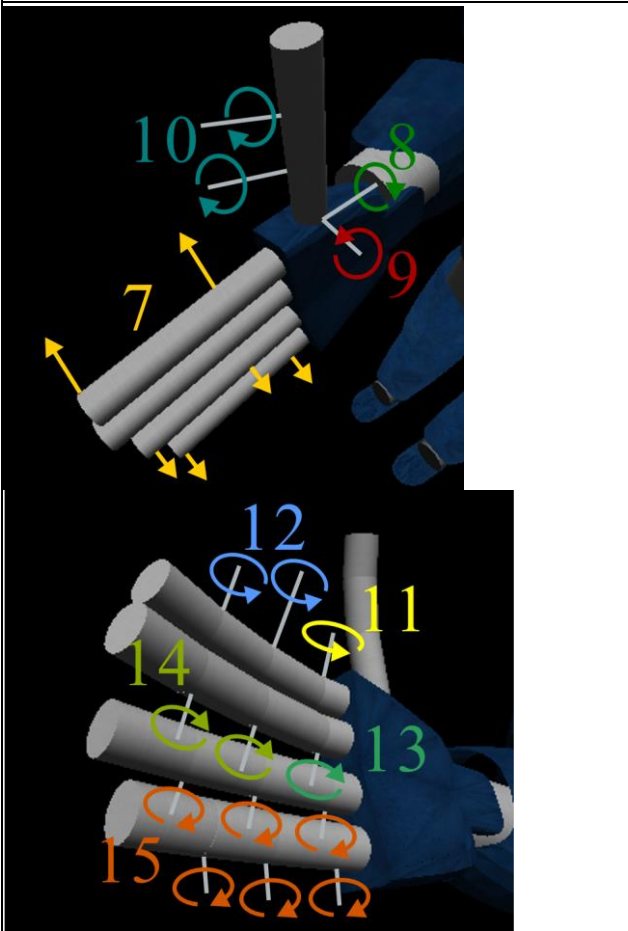


| <i>Joint</i> | <i>Description</i> | <i>Minimum</i> [°] | <i>Maximum</i> [°] |
|--------------|--------------------|--------------------|--------------------|
| 0 | Torso yaw | -50.0 | 50.0 |
| 1 | Torso roll | -30.0 | 30.0 |
| 2 | Torso pitch | -10.0 | 70.0 |

Leg (part: “{left/right}_leg”)



| <i>Joint</i> | <i>Description</i> | <i>Minimum</i> [°] | <i>Maximum</i> [°] |
|--------------|--------------------|--------------------|--------------------|
| 0 | Hip pitch | -30.0 | 90.0 |
| 1 | Hip roll | -0.0 | 90.0 |
| 2 | Hip yaw | -80.0 | 78.0 |
| 3 | Knee | -125.0 | 15.0 |
| 4 | Ankle pitch | -20.0 | 44.0 |
| 5 | Ankle roll | -22.0 | 22.0 |

| Arm (part: "{left/right}_arm") | | | | |
|---|--------------|-----------------------------------|--------------------|--------------------|
|  | <i>Joint</i> | <i>Description</i> | <i>Minimum [°]</i> | <i>Maximum [°]</i> |
| | 0 | Shoulder pitch | -95.0 | 10.0 |
| | 1 | Shoulder roll | 0.0 | 160.8 |
| | 2 | Shoulder yaw | -37.0 | 80.0 |
| | 3 | Elbow | 15.5 | 106.0 |
| | 4 | Wrist pronosupination | -90.0 | 90.0 |
| | 5 | Wrist pitch | -90.0 | 0.0 |
| | 6 | Wrist yaw | -20.0 | 40.0 |
| | 7 | Hand finger adduction/abduction | 0.0 | 60.0 |
|  | 8 | Thumb opposition | 10.0 | 90.0 |
| | 9 | Thumb proximal flexion/extension | 0.0 | 90.0 |
| | 10 | Thumb distal flexion | 0.0 | 180.0 |
| | 11 | Index proximal flexion/extension | 0.0 | 90.0 |
| | 12 | Index distal flexion | 0.0 | 180.0 |
| | 13 | Middle proximal flexion/extension | 0.0 | 90.0 |
| | 14 | Middle distal flexion | 0.0 | 180.0 |
| | 15 | Ring and little finger flexion | 0.0 | 270.0 |
| | | | | |

See https://icub-tech-iit.github.io/documentation/icub_kinematics/icub-joints/icub-joints/ for further information.