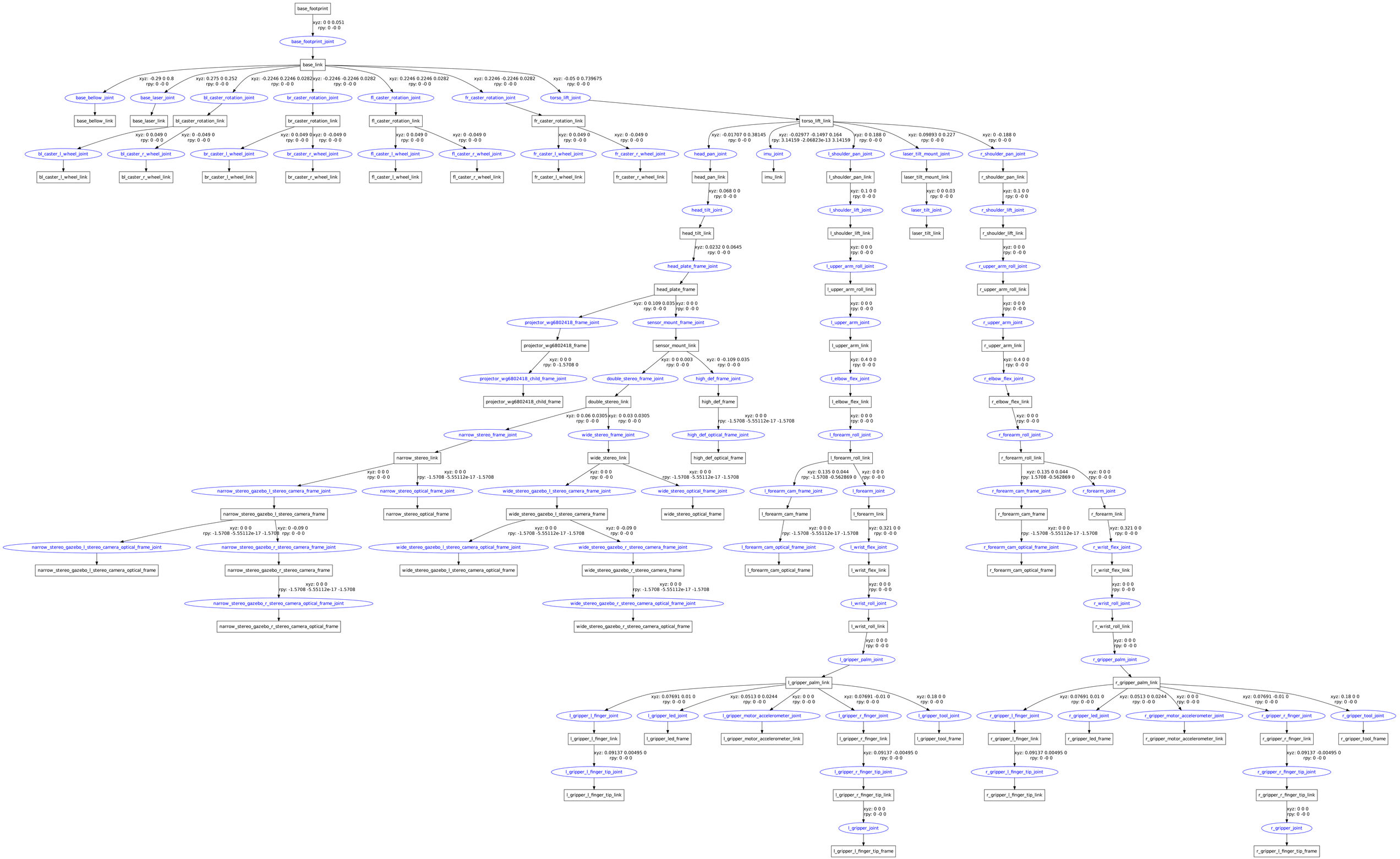
base_footprint
xyz: 0 0 0.051
rpy: 0 -0 0
base_footprint_joint
base_link
xyz: -0.29 0 0.8
rpy: 0 -0 0
base_bellow_joint
base_bellow_link
xyz: 0.275 0 0.252
rpy: 0 -0 0
base_laser_joint
base_laser_link
xyz: -0.2246 0.2246 0.0282
rpy: 0 -0 0
bl_caster_rotation_joint
bl_caster_rotation_link
xyz: -0.2246 -0.2246 0.0282
rpy: 0 -0 0
br_caster_rotation_joint
br_caster_rotation_link
xyz: 0.2246 0.2246 0.0282
rpy: 0 -0 0
fl_caster_rotation_joint
fl_caster_rotation_link
xyz: 0.2246 -0.2246 0.0282
rpy: 0 -0 0
fr_caster_rotation_joint
fr_caster_rotation_link
xyz: -0.05 0 0.739675
rpy: 0 -0 0
torso_lift_joint
torso_lift_link
xyz: 0 0.049 0
rpy: 0 -0 0
bl_caster_l_wheel_joint
bl_caster_l_wheel_link
xyz: 0 -0.049 0
rpy: 0 -0 0
bl_caster_r_wheel_joint
bl_caster_r_wheel_link
xyz: 0 0.049 0
rpy: 0 -0 0
br_caster_l_wheel_joint
br_caster_l_wheel_link
xyz: 0 -0.049 0
rpy: 0 -0 0
br_caster_r_wheel_joint
br_caster_r_wheel_link
xyz: 0 0.049 0
rpy: 0 -0 0
fl_caster_l_wheel_joint
fl_caster_l_wheel_link
xyz: 0 -0.049 0
rpy: 0 -0 0
fl_caster_r_wheel_joint
fl_caster_r_wheel_link
xyz: 0 0.049 0
rpy: 0 -0 0
fr_caster_l_wheel_joint
fr_caster_l_wheel_link
xyz: 0 -0.049 0
rpy: 0 -0 0
fr_caster_r_wheel_joint
fr_caster_r_wheel_link
xyz: -0.01707 0 0.38145
rpy: 0 -0 0
head_pan_joint
head_pan_link
xyz: 0.068 0 0
rpy: 0 -0 0
head_tilt_joint
head_tilt_link
xyz: 0.0232 0 0.0645
rpy: 0 -0 0
head_plate_frame_joint
head_plate_frame
xyz: 0 0.109 0.035
rpy: 0 -0 0
projector_wg6802418_frame_joint
projector_wg6802418_frame
xyz: 0 0 0
rpy: 0 -1.5708 0
projector_wg6802418_child_frame_joint
projector_wg6802418_child_frame
xyz: 0 0 0
rpy: 0 -0 0
sensor_mount_frame_joint
sensor_mount_link
xyz: 0 0 0.003
rpy: 0 -0 0
double_stereo_frame_joint
double_stereo_link
xyz: 0 0.06 0.0305
rpy: 0 -0 0
narrow_stereo_frame_joint
narrow_stereo_link
xyz: 0 0 0
rpy: 0 -0 0
narrow_stereo_gazebo_l_stereo_camera_frame_joint
narrow_stereo_gazebo_l_stereo_camera_frame
xyz: 0 0 0
rpy: -1.5708 -5.55112e-17 -1.5708
narrow_stereo_gazebo_l_stereo_camera_optical_frame_joint
narrow_stereo_gazebo_l_stereo_camera_optical_frame
xyz: 0 -0.09 0
rpy: 0 -0 0
narrow_stereo_gazebo_r_stereo_camera_frame_joint
narrow_stereo_gazebo_r_stereo_camera_frame
xyz: 0 0 0
rpy: -1.5708 -5.55112e-17 -1.5708
narrow_stereo_gazebo_r_stereo_camera_optical_frame_joint
narrow_stereo_gazebo_r_stereo_camera_optical_frame
xyz: 0 0 0
rpy: -1.5708 -5.55112e-17 -1.5708
narrow_stereo_optical_frame_joint
narrow_stereo_optical_frame
xyz: 0 0.03 0.0305
rpy: 0 -0 0
wide_stereo_frame_joint
wide_stereo_link
xyz: 0 0 0
rpy: 0 -0 0
wide_stereo_gazebo_l_stereo_camera_frame_joint
wide_stereo_gazebo_l_stereo_camera_frame
xyz: 0 0 0
rpy: -1.5708 -5.55112e-17 -1.5708
wide_stereo_gazebo_l_stereo_camera_optical_frame_joint
wide_stereo_gazebo_l_stereo_camera_optical_frame
xyz: 0 -0.09 0
rpy: 0 -0 0
wide_stereo_gazebo_r_stereo_camera_frame_joint
wide_stereo_gazebo_r_stereo_camera_frame
xyz: 0 0 0
rpy: -1.5708 -5.55112e-17 -1.5708
wide_stereo_gazebo_r_stereo_camera_optical_frame_joint
wide_stereo_gazebo_r_stereo_camera_optical_frame
xyz: 0 0 0
rpy: -1.5708 -5.55112e-17 -1.5708
wide_stereo_optical_frame_joint
wide_stereo_optical_frame
xyz: 0 -0.109 0.035
rpy: 0 -0 0
high_def_frame_joint
high_def_frame
xyz: 0 0 0
rpy: -1.5708 -5.55112e-17 -1.5708
high_def_optical_frame_joint
high_def_optical_frame
xyz: -0.02977 -0.1497 0.164
rpy: 3.14159 -2.06823e-13 3.14159
imu_joint
imu_link
xyz: 0 0.188 0
rpy: 0 -0 0
l_shoulder_pan_joint
l_shoulder_pan_link
xyz: 0.1 0 0
rpy: 0 -0 0
l_shoulder_lift_joint
l_shoulder_lift_link
xyz: 0 0 0
rpy: 0 -0 0
l_upper_arm_roll_joint
l_upper_arm_roll_link
xyz: 0 0 0
rpy: 0 -0 0
l_upper_arm_joint
l_upper_arm_link
xyz: 0.4 0 0
rpy: 0 -0 0
l_elbow_flex_joint
l_elbow_flex_link
xyz: 0 0 0
rpy: 0 -0 0
l_forearm_roll_joint
l_forearm_roll_link
xyz: 0.135 0 0.044
rpy: -1.5708 -0.562869 0
l_forearm_cam_frame_joint
l_forearm_cam_frame
xyz: 0 0 0
rpy: -1.5708 -5.55112e-17 -1.5708
l_forearm_cam_optical_frame_joint
l_forearm_cam_optical_frame
xyz: 0 0 0
rpy: 0 -0 0
l_forearm_joint
l_forearm_link
xyz: 0.321 0 0
rpy: 0 -0 0
l_wrist_flex_joint
l_wrist_flex_link
xyz: 0 0 0
rpy: 0 -0 0
l_wrist_roll_joint
l_wrist_roll_link
xyz: 0 0 0
rpy: 0 -0 0
l_gripper_palm_joint
l_gripper_palm_link
xyz: 0.07691 0.01 0
rpy: 0 -0 0
l_gripper_l_finger_joint
l_gripper_l_finger_link
xyz: 0.09137 0.00495 0
rpy: 0 -0 0
l_gripper_l_finger_tip_joint
l_gripper_l_finger_tip_link
xyz: 0.0513 0 0.0244
rpy: 0 -0 0
l_gripper_led_joint
l_gripper_led_frame
xyz: 0 0 0
rpy: 0 -0 0
l_gripper_motor_accelerometer_joint
l_gripper_motor_accelerometer_link
xyz: 0.07691 -0.01 0
rpy: 0 -0 0
l_gripper_r_finger_joint
l_gripper_r_finger_link
xyz: 0.09137 -0.00495 0
rpy: 0 -0 0
l_gripper_r_finger_tip_joint
l_gripper_r_finger_tip_link
xyz: 0 0 0
rpy: 0 -0 0
l_gripper_joint
l_gripper_l_finger_tip_frame
xyz: 0.18 0 0
rpy: 0 -0 0
l_gripper_tool_joint
l_gripper_tool_frame
xyz: 0.09893 0 0.227
rpy: 0 -0 0
laser_tilt_mount_joint
laser_tilt_mount_link
xyz: 0 0 0.03
rpy: 0 -0 0
laser_tilt_joint
laser_tilt_link
xyz: 0 -0.188 0
rpy: 0 -0 0
r_shoulder_pan_joint
r_shoulder_pan_link
xyz: 0.1 0 0
rpy: 0 -0 0
r_shoulder_lift_joint
r_shoulder_lift_link
xyz: 0 0 0
rpy: 0 -0 0
r_upper_arm_roll_joint
r_upper_arm_roll_link
xyz: 0 0 0
rpy: 0 -0 0
r_upper_arm_joint
r_upper_arm_link
xyz: 0.4 0 0
rpy: 0 -0 0
r_elbow_flex_joint
r_elbow_flex_link
xyz: 0 0 0
rpy: 0 -0 0
r_forearm_roll_joint
r_forearm_roll_link
xyz: 0.135 0 0.044
rpy: 1.5708 -0.562869 0
r_forearm_cam_frame_joint
r_forearm_cam_frame
xyz: 0 0 0
rpy: -1.5708 -5.55112e-17 -1.5708
r_forearm_cam_optical_frame_joint
r_forearm_cam_optical_frame
xyz: 0 0 0
rpy: 0 -0 0
r_forearm_joint
r_forearm_link
xyz: 0.321 0 0
rpy: 0 -0 0
r_wrist_flex_joint
r_wrist_flex_link
xyz: 0 0 0
rpy: 0 -0 0
r_wrist_roll_joint
r_wrist_roll_link
xyz: 0 0 0
rpy: 0 -0 0
r_gripper_palm_joint
r_gripper_palm_link
xyz: 0.07691 0.01 0
rpy: 0 -0 0
r_gripper_l_finger_joint
r_gripper_l_finger_link
xyz: 0.09137 0.00495 0
rpy: 0 -0 0
r_gripper_l_finger_tip_joint
r_gripper_l_finger_tip_link
xyz: 0.0513 0 0.0244
rpy: 0 -0 0
r_gripper_led_joint
r_gripper_led_frame
xyz: 0 0 0
rpy: 0 -0 0
r_gripper_motor_accelerometer_joint
r_gripper_motor_accelerometer_link
xyz: 0.07691 -0.01 0
rpy: 0 -0 0
r_gripper_r_finger_joint
r_gripper_r_finger_link
xyz: 0.09137 -0.00495 0
rpy: 0 -0 0
r_gripper_r_finger_tip_joint
r_gripper_r_finger_tip_link
xyz: 0 0 0
rpy: 0 -0 0
r_gripper_joint
r_gripper_l_finger_tip_frame
xyz: 0.18 0 0
rpy: 0 -0 0
r_gripper_tool_joint
r_gripper_tool_frame