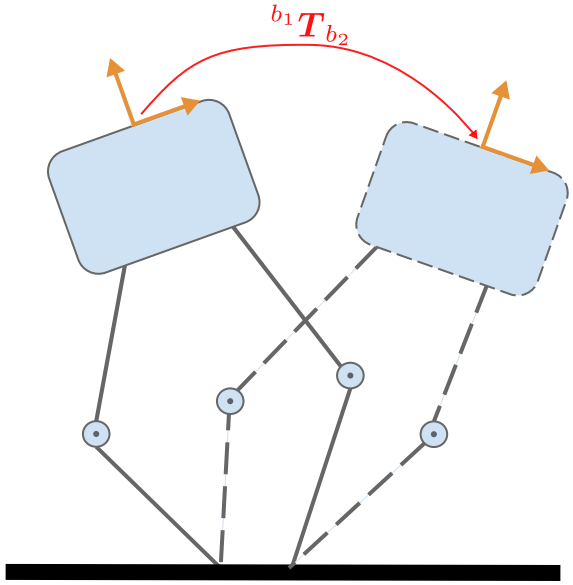
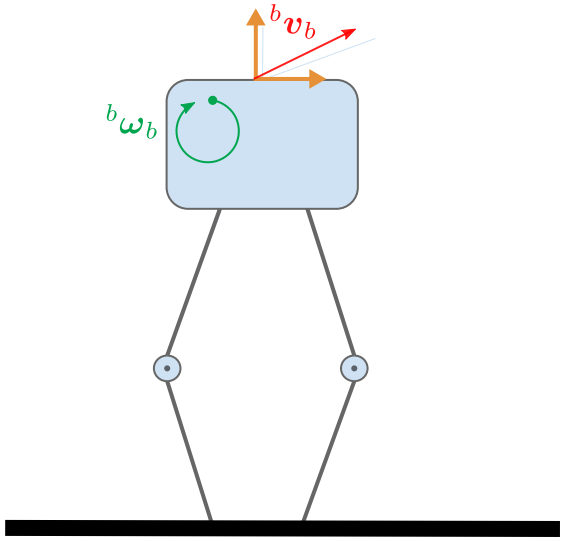


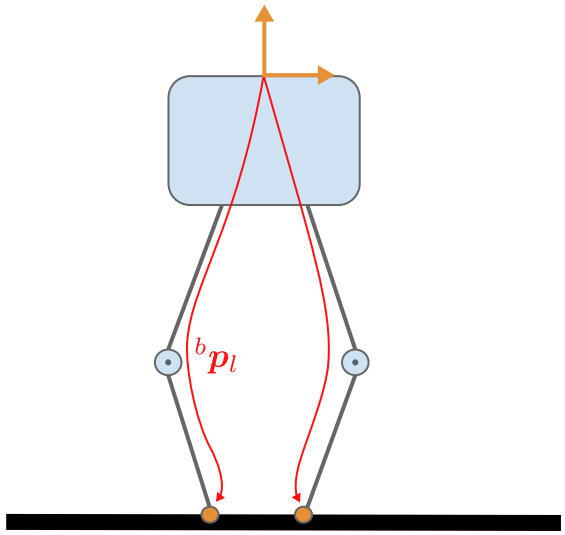
$${}^{b_1}\boldsymbol{T}_{b_2} = \underset{T}{argmin} \sum_{l}^{N_c} || {}^{b_1}\boldsymbol{T}_{b_2} {}^{b_2}\boldsymbol{p}_l - {}^{b_1}\boldsymbol{p}_l||^2$$

if $N_c \geq 3$

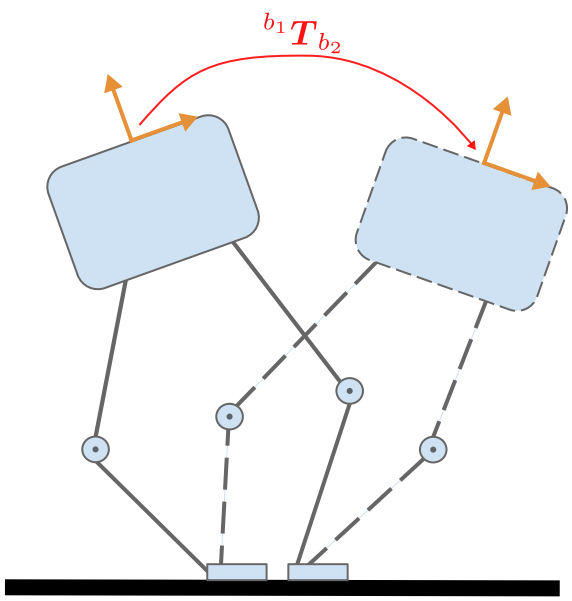


$${}^{b}\boldsymbol{v}_b = -{}^{b}\boldsymbol{v}_l - {}^{b}\boldsymbol{\omega}_b \times {}^{b}\boldsymbol{p}_l$$

$\forall\, l \in [1..N_c]$

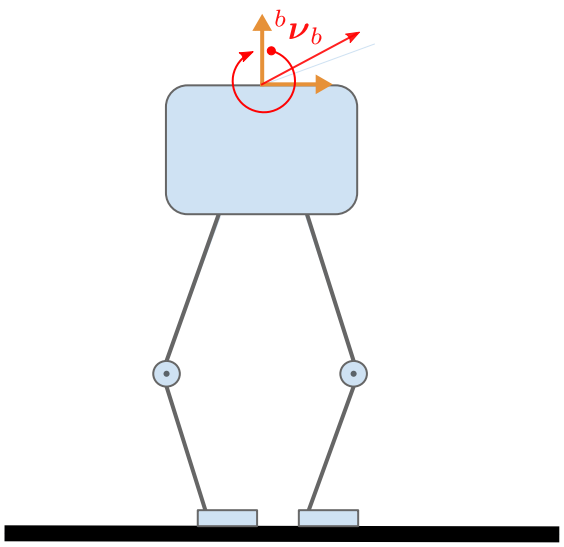


direct



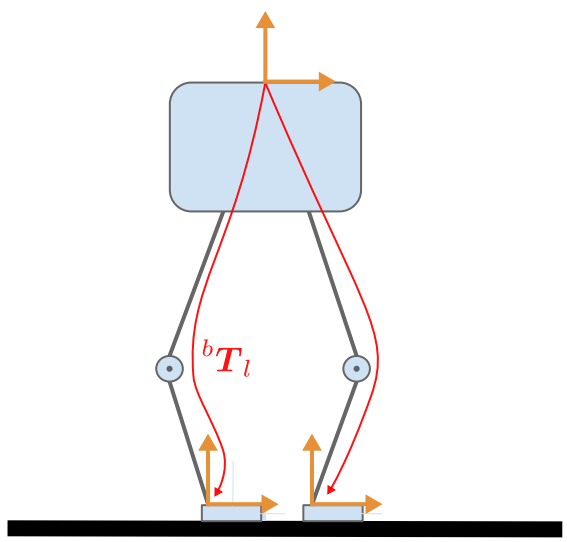
$${}^{b_1}\boldsymbol{T}_{b_2} = {}^{b_1}\boldsymbol{T}_{l}\, {}^{b_2}\boldsymbol{T}_{l}^{-1}$$

$\forall\, l \in [1..N_c]$



$${}^{b}\boldsymbol{\nu}_b = -{}^{b}\boldsymbol{\nu}_{bl}$$

$\forall\, l \in [1..N_c]$



direct