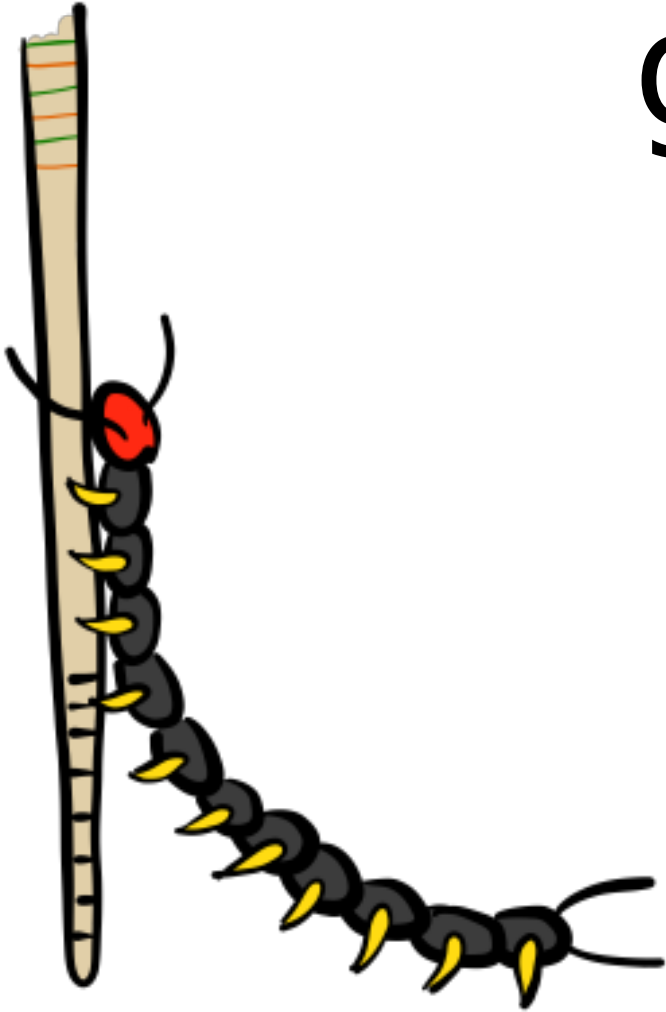


Modeling centipede gaits at Tohoku university



Lab



Lab



Lab



Lab



Weather



Weather



Food



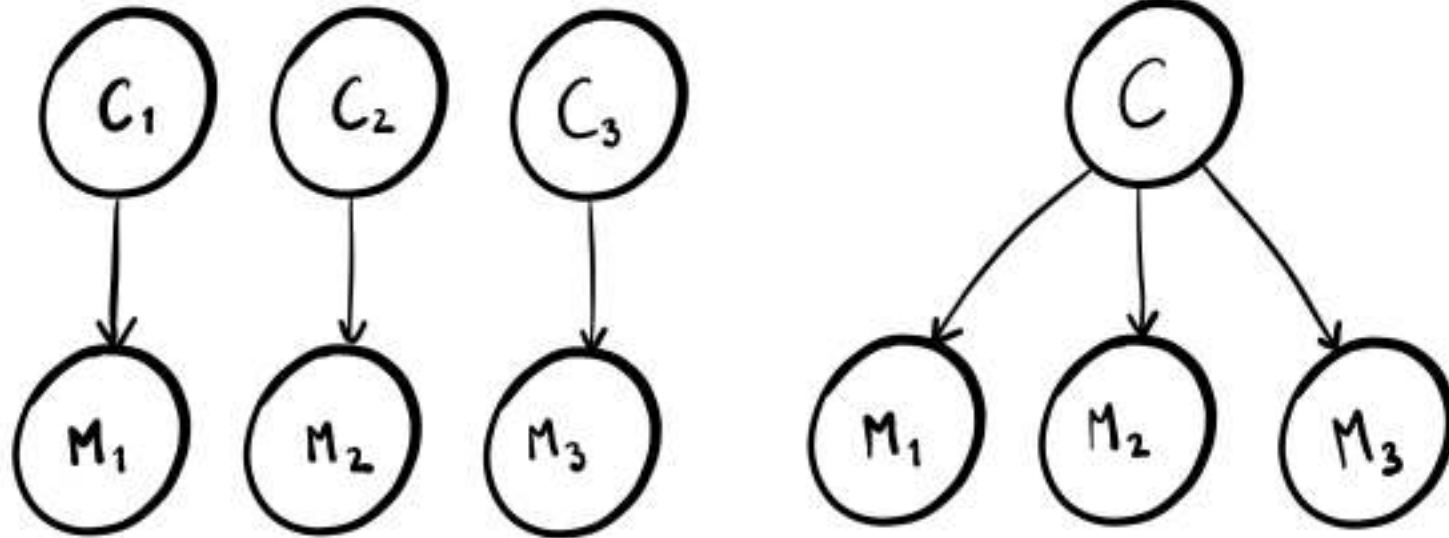
Hot springs



Festivals



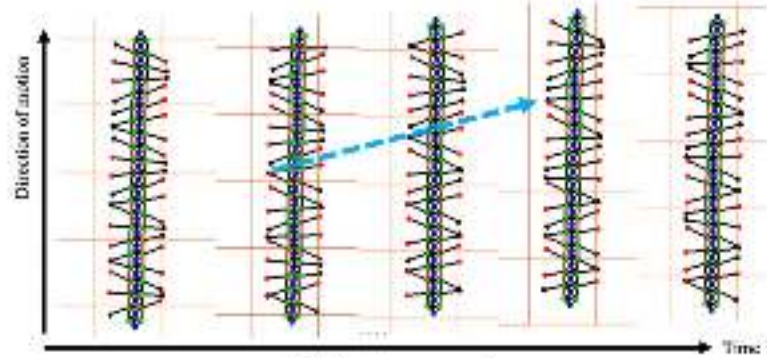
Morphology independent control



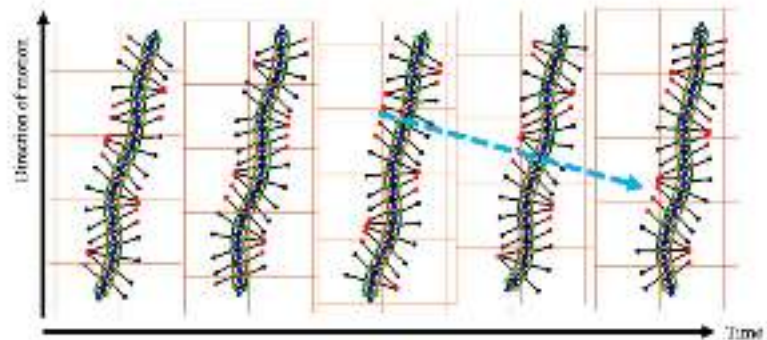
Extracting principles of locomotion from animals



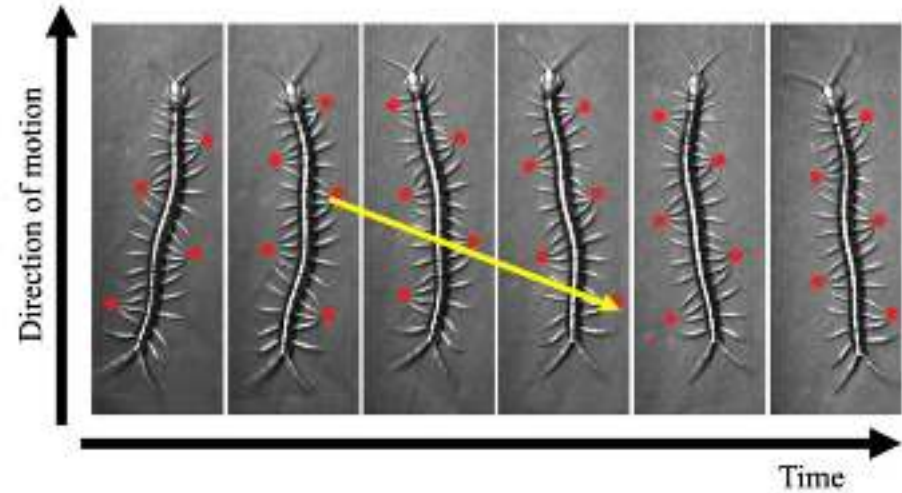
Centipede behavior



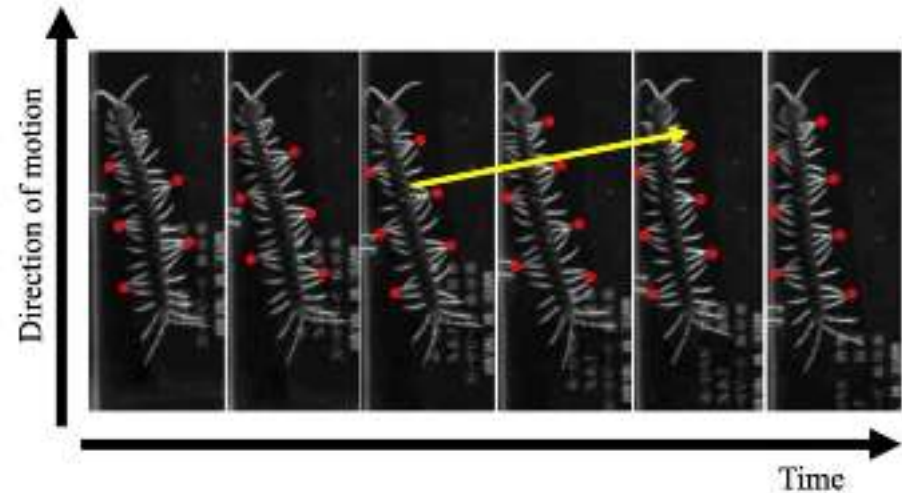
(a) Direct wave gait



(b) Retrograde wave gait with body undulation

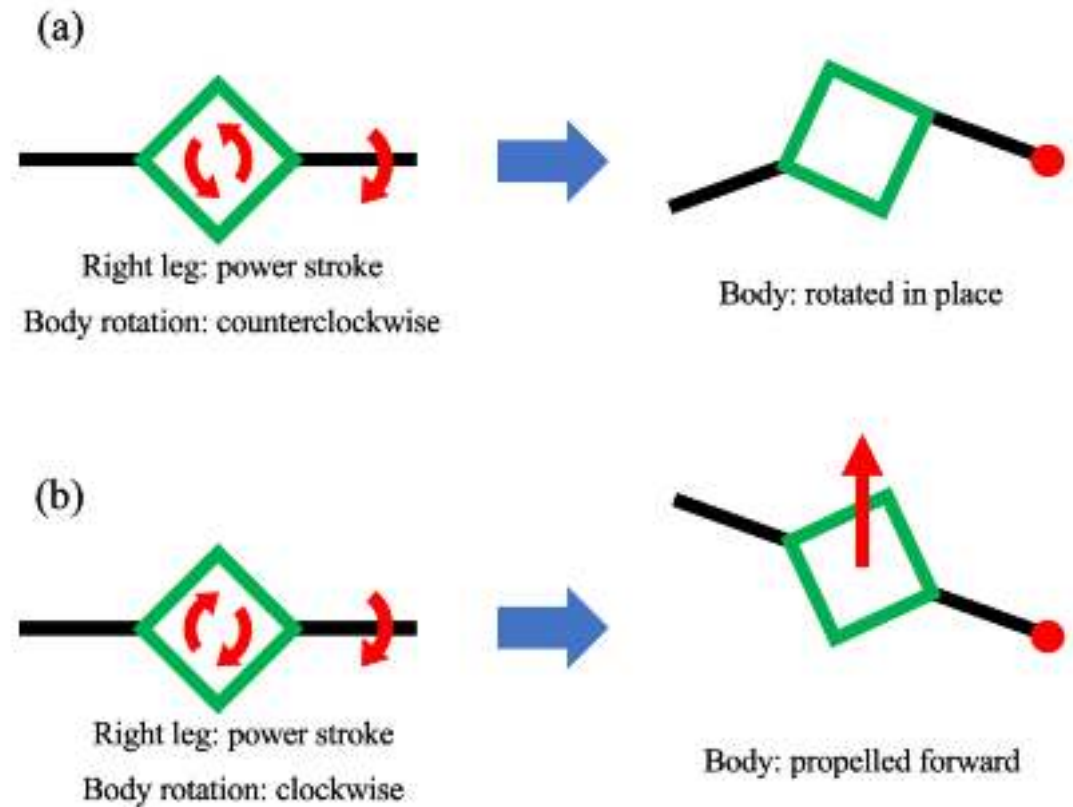
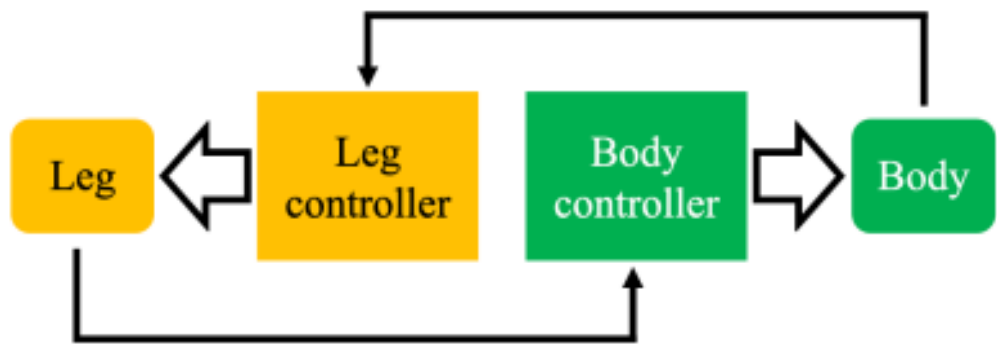


(a) Retrograde wave gait



(b) Direct wave gait

The centipede robot controller



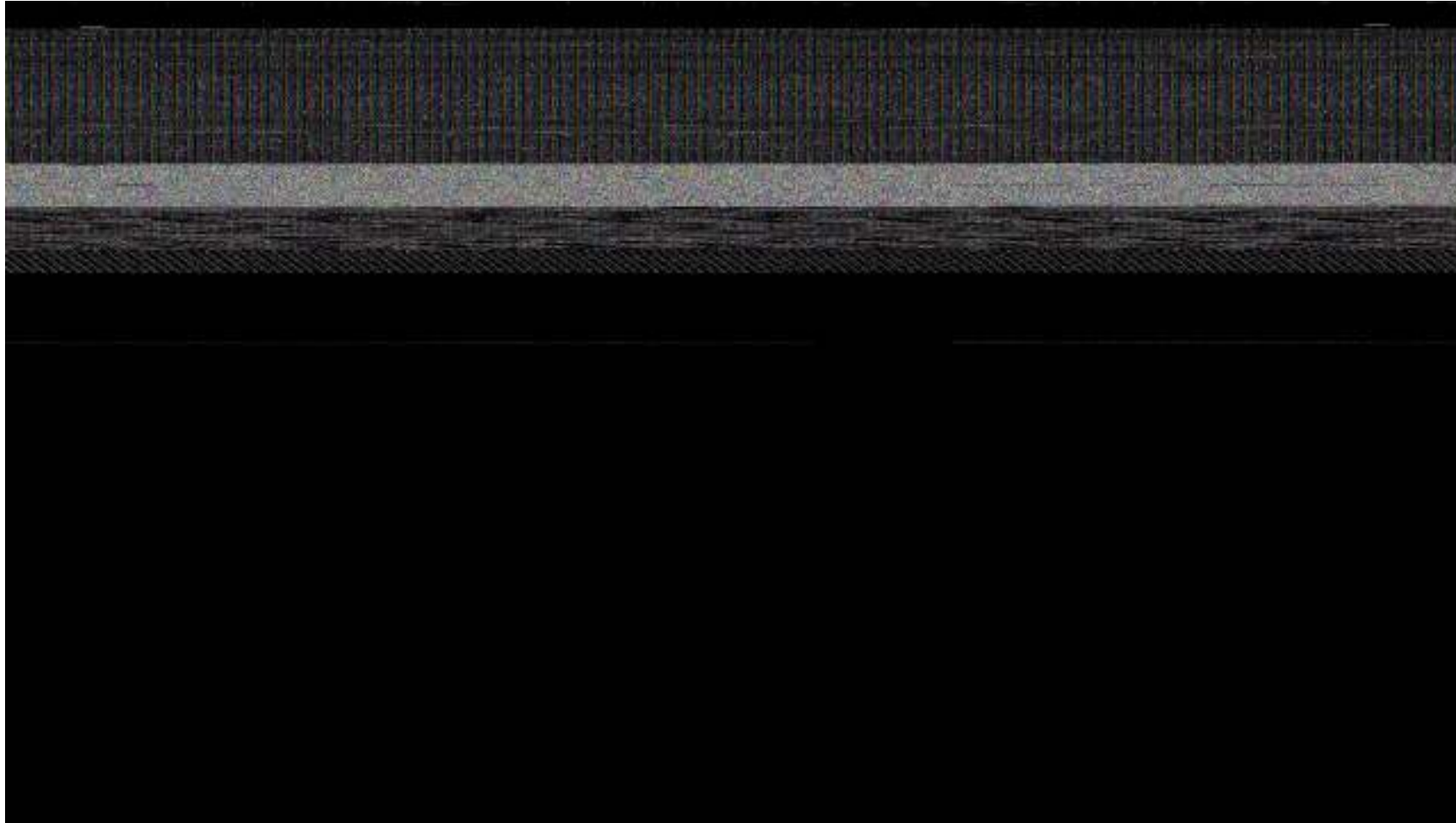
Direct wave gait



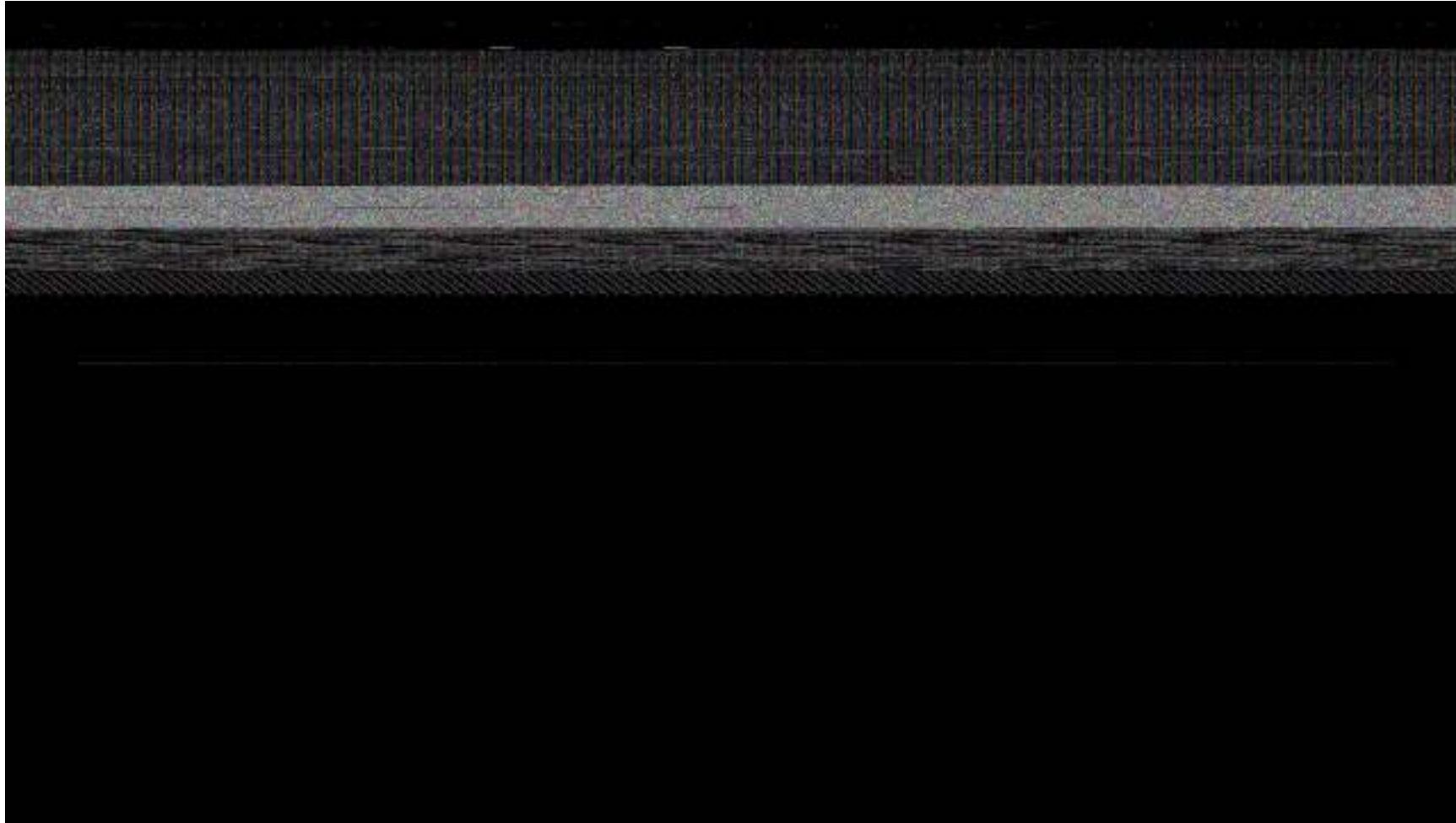
Retrograde wave gait



Morphology dependent behavior



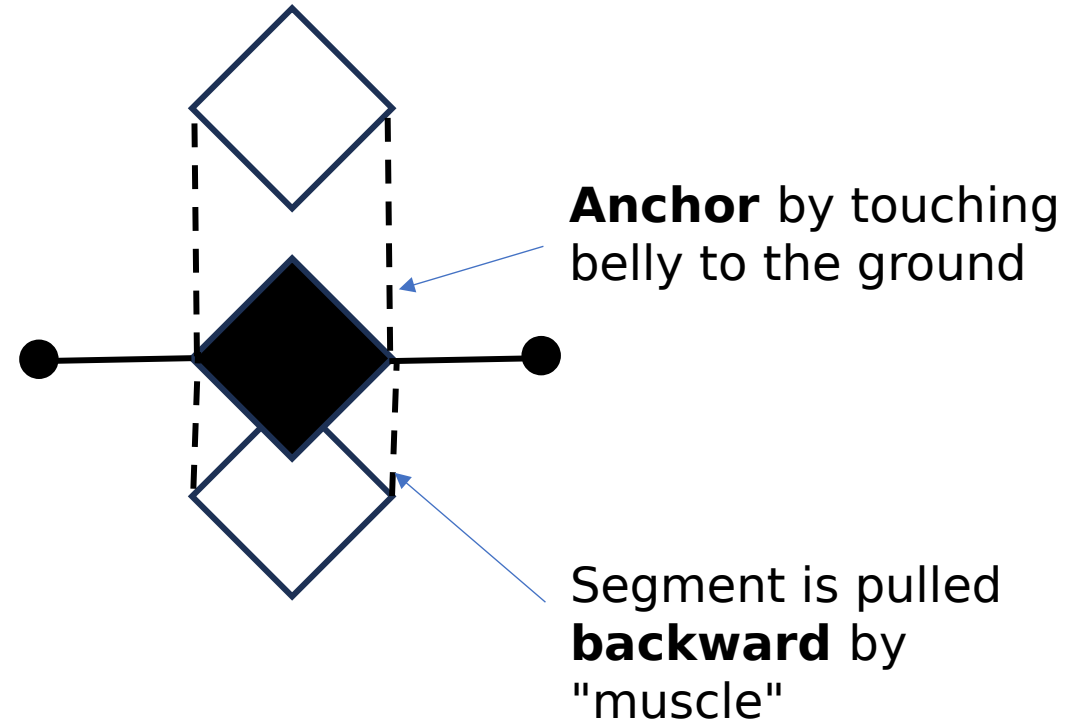
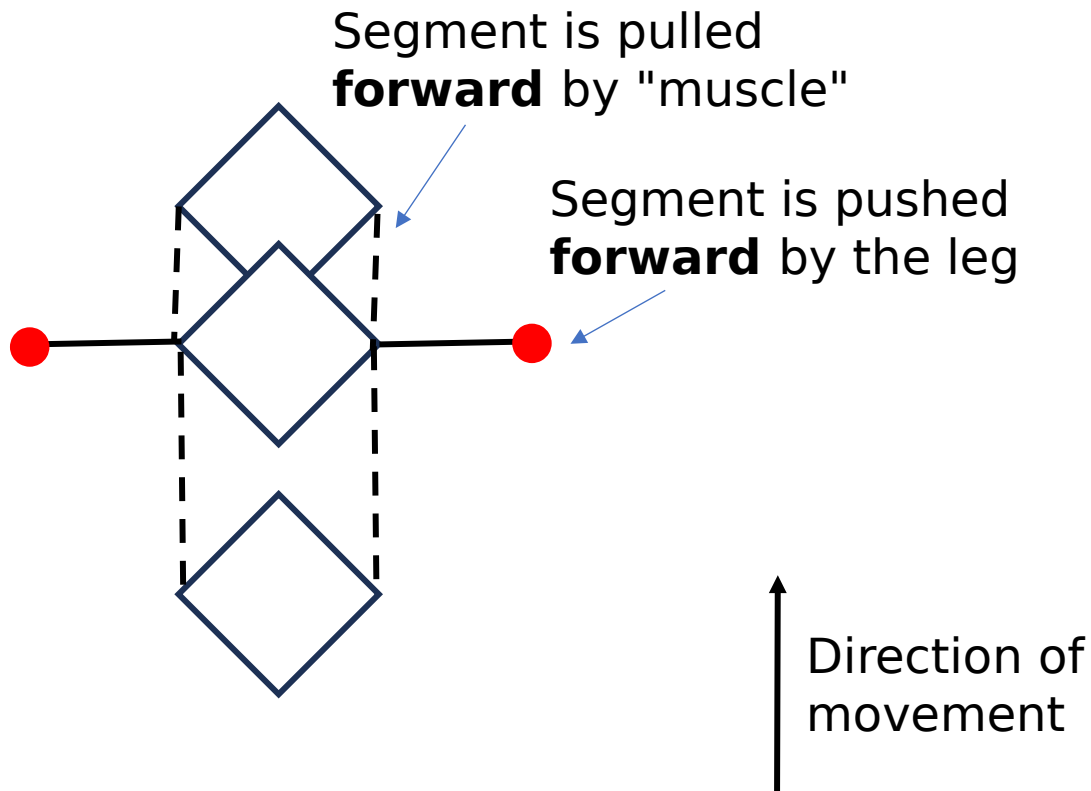
Morphology dependent behavior



Centipede robot controller 2.0



Centipede robot controller 2.0



Peristalsis

