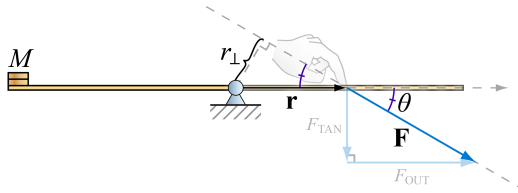
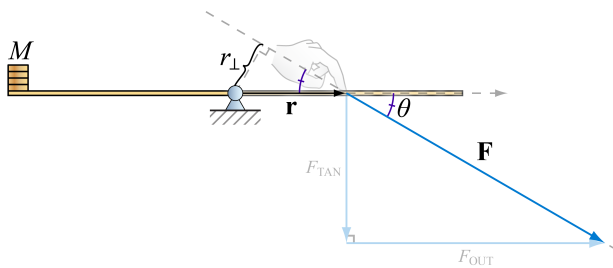


# Rotational statics (for courses that do $\tau$ before N2L for rotation)

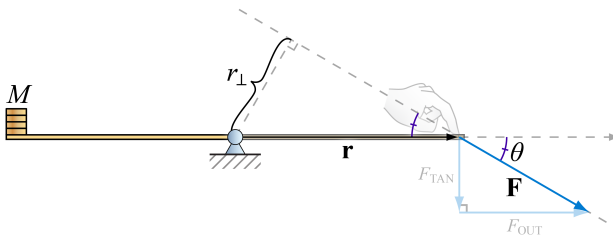
How can I prevent the lopsidedly-weighted seesaw from spinning about the frictionless pivot?



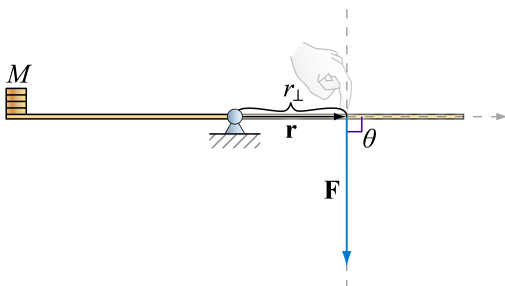
Countertwist  $\neq 0$



$\uparrow F \Rightarrow \uparrow$  Countertwist



$\uparrow r \Rightarrow \uparrow$  Countertwist



$\uparrow \perp$  ity  $\Rightarrow \uparrow$  Countertwist

$$|\tau_F| := r_{\perp} F$$

$$:= (r \sin \theta) F$$

Rotational equilibrium

$$\Rightarrow \sum_{\text{CCW}} |\tau| = \sum_{\text{CW}} |\tau|$$