Friction

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1 Definition

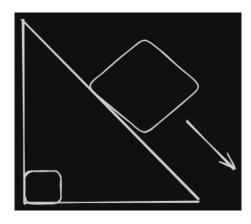
an object interacting with its environment

Static Friction

opposes the change in a motion state $F_{\text{static}} \leq \mu_s \times F_n$ μ_s is the coefficient of static friction, <u>unitless</u> number

Kinetic Friction

opposes change motion in any direction



 $F_{\text{kinetic}} = \mu_k \times F_n$ μ_k is the coefficient of kinetic friction, unitless number

Comparing the constants

typically kinetic constant less than static

