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Classical Relativity - Newton

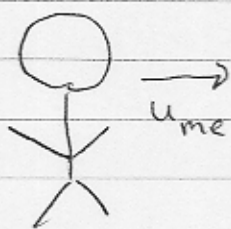
- The Stars and Planets are in constant motion \odot respect to each other

- Why should a person on Jupiter have a different set of rules (for example $F = ma$, $KE_i + PE_i = KE_f + PE_f$) than us. "And so, instead of absolute places and motions, we use relative ones"

Need a set of rules which relate (the measurements we make (x, t, a, F) to an observer on Jupiter (x', t', a', F'))

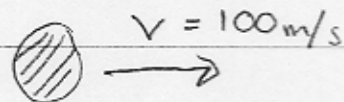
Example:

I run with a speed of 2 m/s



I say my velocity is $u_{me} = 2 \text{ m/s}$

And Jupiter is moving with speed



Jupiter

$v = 100 \text{ m/s}$