

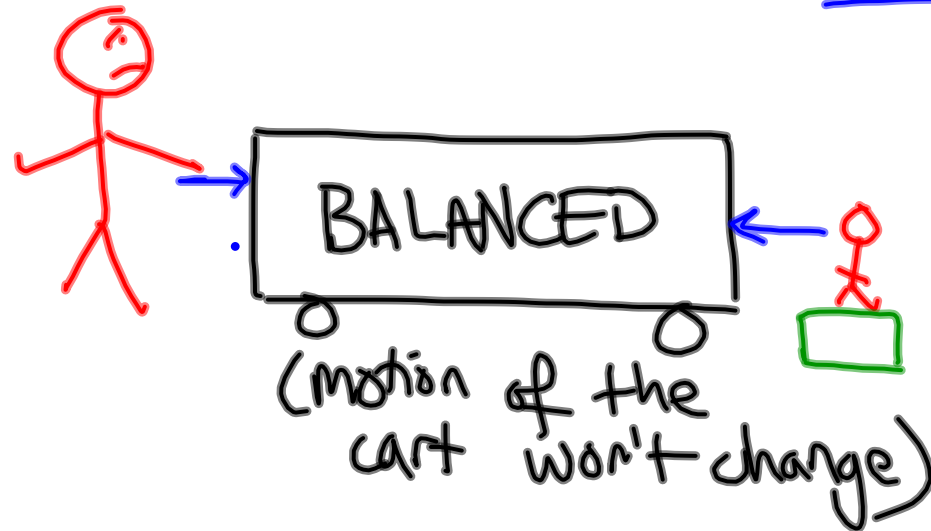
Newton's 1st Law:

. It takes an unbalanced (net)
(overall) force to change the
motion of an object

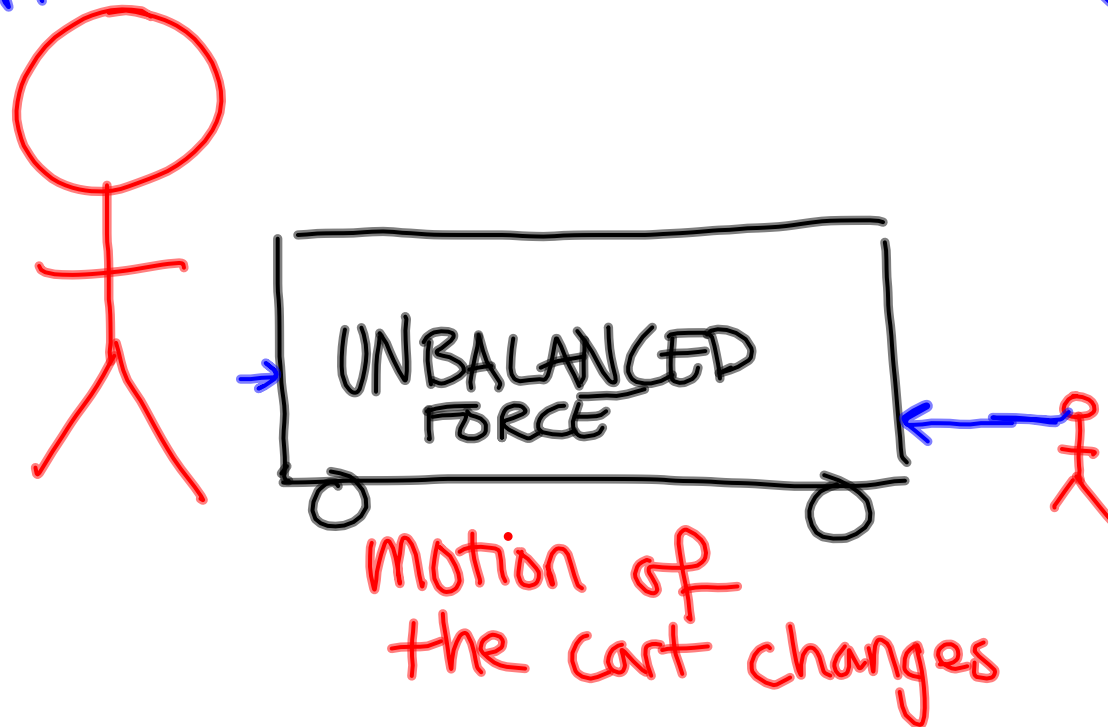
~~Forces make things move~~

~~Forces keep things moving~~

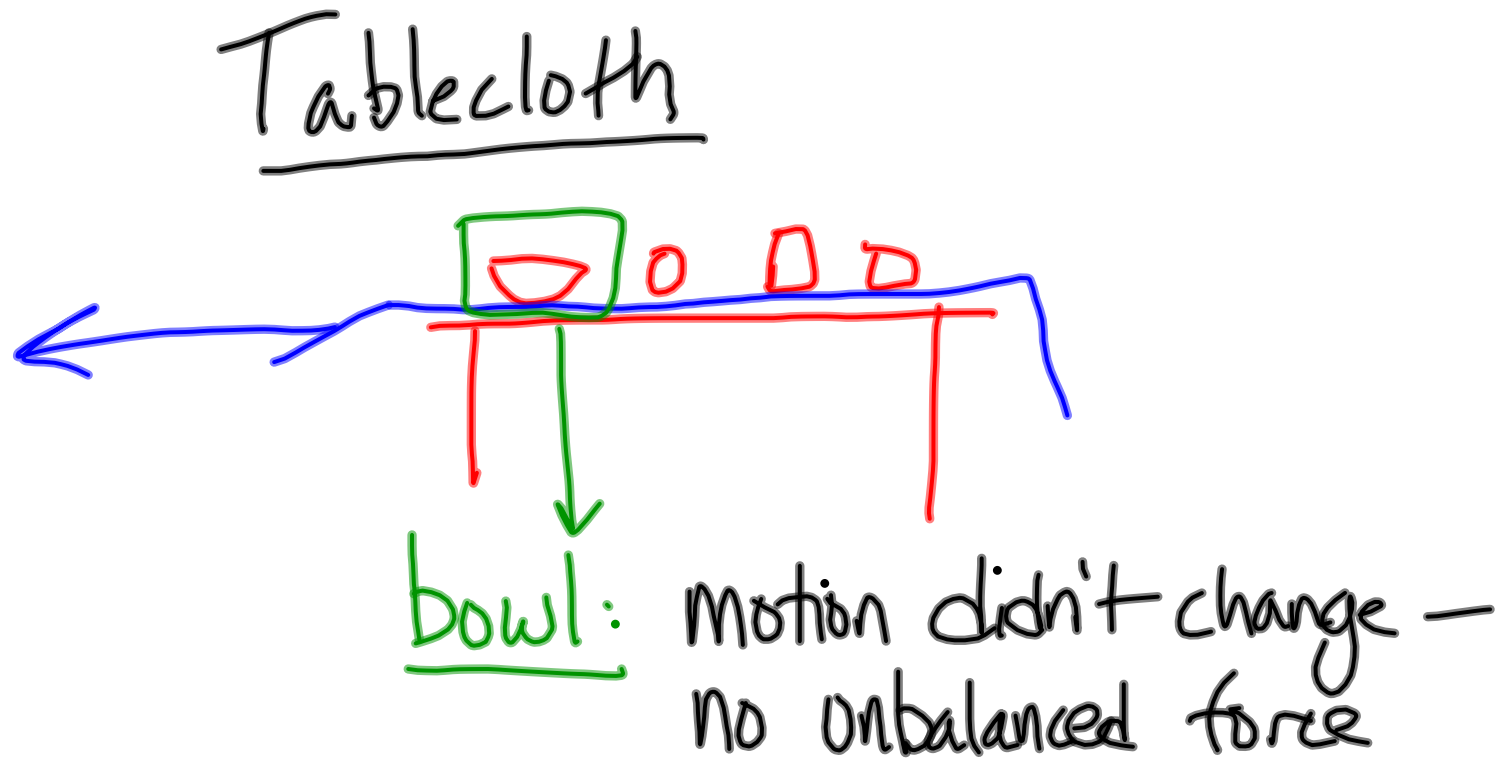
A force is balanced when there is another force on the same object in the opposite direction that is the same size



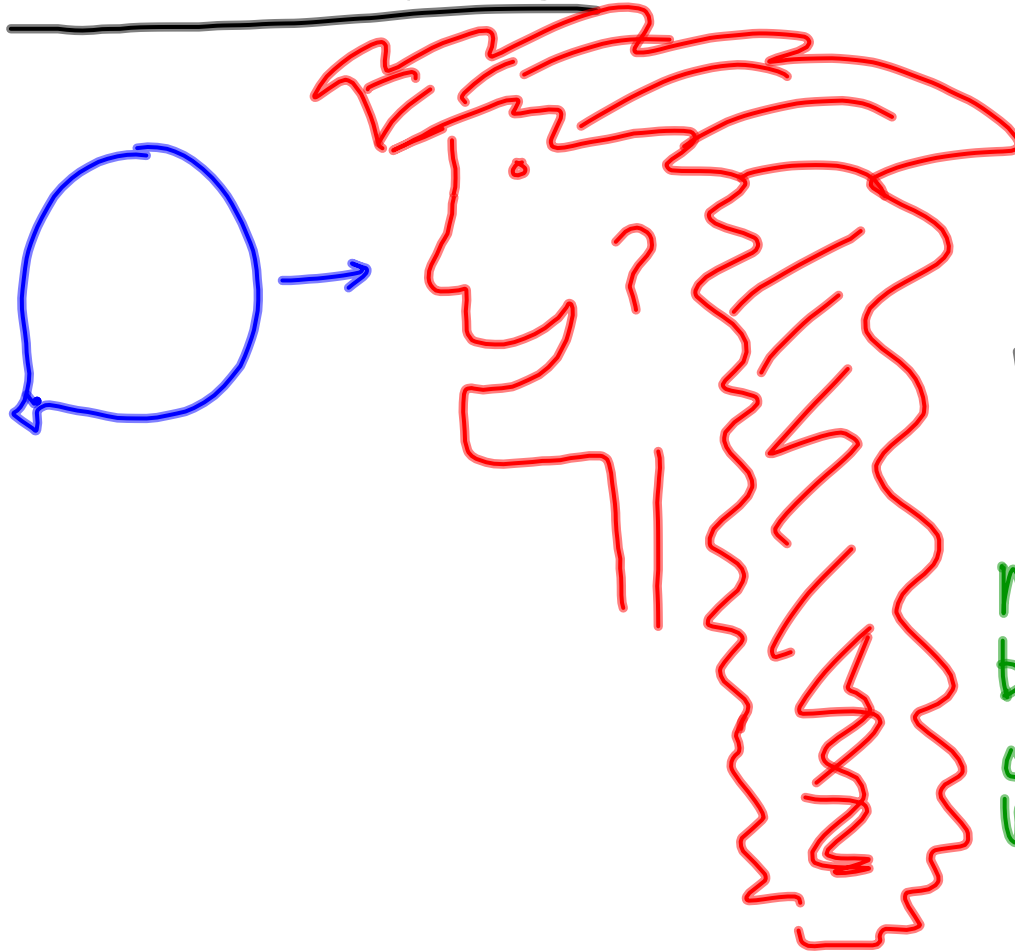
Unbalanced forces exist when there is not an equal force acting in the opposite direction on the same object.



- Is there an unbalanced force on the object?
 - yes → motion will change
 - no → motion will not change
- Is the motion of the object changing?
 - yes → unbalanced force
 - no → no unbalanced force



Water balloon:



What
happened to
my face and
why?

Moved backwards
because the force
of the water balloon
was unbalanced