excellent video and tutorial of real "frictionless" collisions on air tracks.

real car crash into wall and air bags.

Center of mass point of view.

car and Earth system simulation to show where the momentum goes in that system.

[http://www.animations.physics.unsw.edu.au/mechanics/chapter9\_momentum.html](http://www.animations.physics.unsw.edu.au/jw/momentum.html#time)

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