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- We model the gas as lots of tiny little hard spheres far apart (compared to their size) and moving very fast.
- The motions are in all directions and change directions very rapidly. A model saying that on the average the total momentum is 0 (and stays 0 by momentum conservation) is a good one.
- Because there are some many particles and the collisions so sensitive to initial conditions, we can't predict the motion of individual particles for long.
- Dilute gases satisfy the Ideal Gas Law, $pV = n_{moles}RT$ ^{11/7/13} Physics ¹³¹ 21



