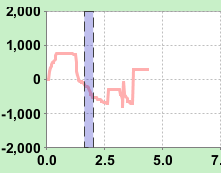
**Tips for controls:**

* Game tab - use the keyboard arrow buttons to apply force to the object.
* Be sure to try all the different tabs at the top of the simulation.
* Use the controls on the bottom to **Pause, Step**, or **Record** and **Playback** the motion. You must select **Record** before you start an experiment if you want it saved. The is grabbable in **Playback** mode. It is useful to relate the object's motion to the graphs.
* The vertical gray line in the graph is grabbable in **Playback** mode. It is useful to relate the object's motion to the graphs.

**Important modeling notes / simplifications:**

* Thermal Energy - the surface will heat up due to work done by friction. The friction coefficients *do not change* when the surface heats up.
* Using the "Clear Heat" button will remove the thermal energy. While the surface is wet (blue) the coefficients of friction are lowered until the surface is dry again (brown).

**Suggestions for sim use:**

* We designed the motion sims to be used in the following order: [**Moving Man**](http://phet.colorado.edu/en/simulation/moving-man), [**Forces & Motion**](http://phet.colorado.edu/en/simulation/forces-and-motion), then [**Ramp-Force and Motion**](http://phet.colorado.edu/en/simulation/ramp-forces-and-motion).
* Two related sims are Ladybug Revolution and Ladybug Motion 2D.
* For tips on using PhET sims with your students see: [**Guidelines for Inquiry Contributions**](http://phet.colorado.edu/teacher_ideas/contribution-guidelines.php)and [**Using PhET Sims**](http://phet.colorado.edu/teacher_ideas/classroom-use.php)
* The simulations have been used successfully with homework, lectures, in-class activities, or lab activities. Use them for introduction to concepts, learning new concepts, reinforcement of concepts, as visual aids for interactive demonstrations, or with in-class clicker questions. To read more, see [**Teaching Physics using PhET Simulations**](http://phet.colorado.edu/phet-dist/publications/Teaching_physics_using_PhET_TPT.pdf)
* For activities and lesson plans written by the PhET team and other teachers, see: [**Teacher Ideas & Activities**](http://phet.colorado.edu/teacher_ideas/index.php)