

USER MANUAL:

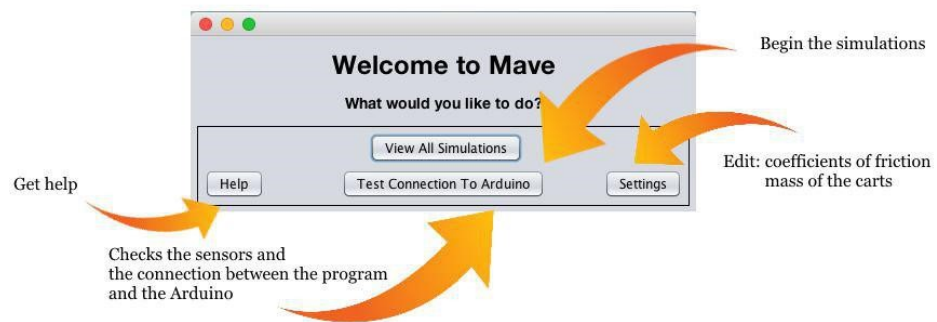
MAVE



User Manual

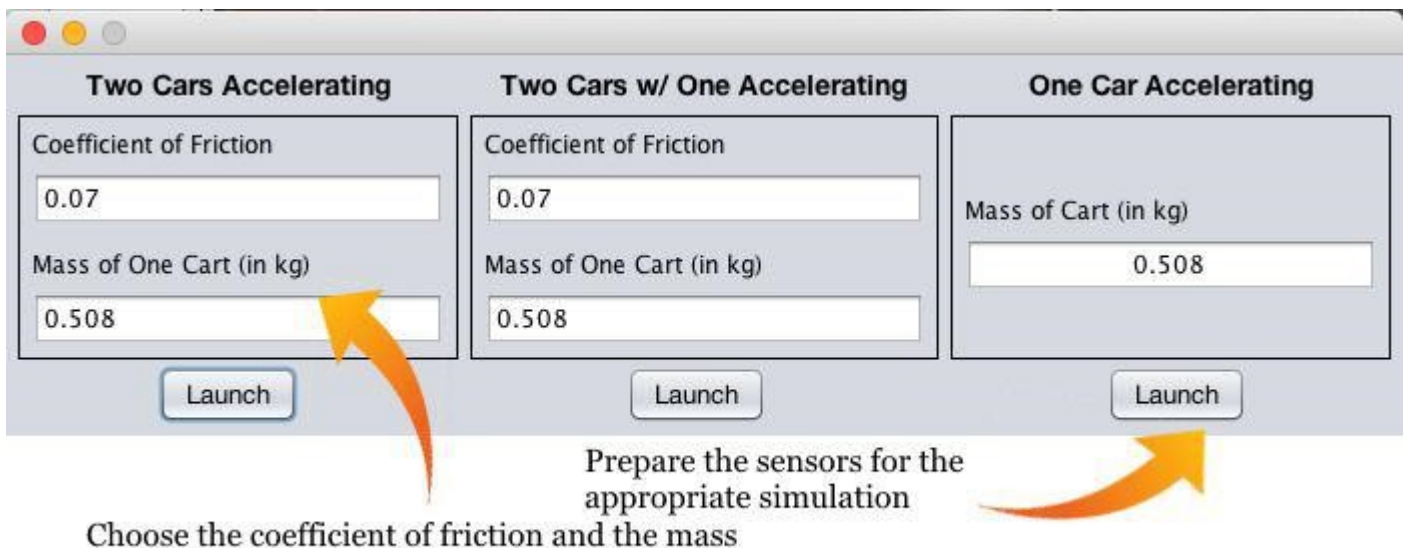
Welcome to Mave the ultimate physics cart simulation program. This program can calculate the momentum, speed and kinetic energy of the carts during 1D acceleration and collisions.

Start Menu:



To change settings:

You can change the coefficients of friction and input masses of carts when you click the settings on the main menu.



1D Acceleration:

- 1: Put one cart on the track.
- 2: Push the cart so that it goes the full length of the track.
- 3: Observations and calculated values will be shown on the screen.:



1D Acceleration

Initial time: 0.0
Initial speed: 0.238m/s
Final time: 1.111
Final speed: 0.543m/s
Acceleration: 0.40384m/s^2
Force of friction: 0.206N
Coefficient of friction: 0.042
Current momentum: 0.120904
Kinetic energy: 0.015
Mass: 0.508kg

Find the all measurements here

Collision with Two Moving Cars:

- 1: Put two cars on opposite sides and equally far from the middle track.
- 2: Push the cars so that the cars collide near the middle of the track.
- 3: Observations and calculated values will be shown on the screen:

Calculated Values

Cart Collision

Cart 1 Before Collision	Cart 1 After Collision
Kinetic Energy 0.352	Kinetic Energy Calculating...
Momentum 0.839	Momentum Calculating...
Speed 0.839 m/s	Speed Calculating...

Cart 2 Before Collision	Cart 2 After Collision
Kinetic Energy 0	Kinetic Energy Calculating...
Momentum 0	Momentum Calculating...
Speed 0	Speed Calculating...



Collision with a Stationary Car

- 1: Put a stationary car in the exact middle of the track.
- 2: Push a cart from one side of the track so that it collides with the stationary car.
- 3: Observations and calculated values will be shown on the screen.



AND WHEN YOU'RE FEELING LONELY



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how faded

