

Ball toss model: projectile motion with no air resistance

Modified Euler evolution equations: $x_{n+1} = x_n + 0.5 * (v_n + v_{n+1}) * dt$

Force equations: $F_x = 0$

$$v_{n+1} = v_n + a_n * dt$$

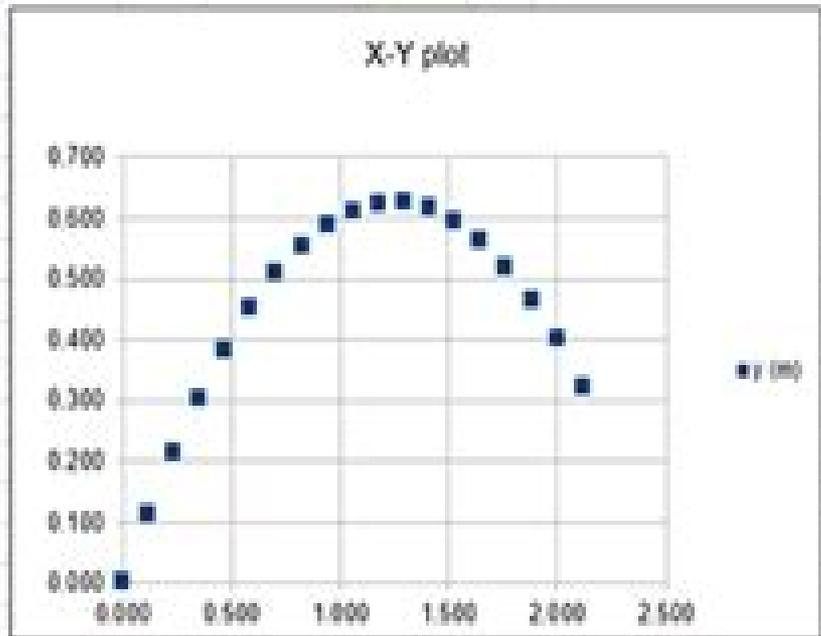
$$F_y = -m * g$$

To use, change a parameter value or click the orange box below. The (t, x, y) data will be automatically copied to the clipboard.

| | | | | ball | | | | | | | | |
|----------------|----------------------------|--------|------------------|-------|-------|-------|----------|----------|------------------------|------------------------|--------|---------|
| Parameter | Description | Value | Units | t (s) | x (m) | y (m) | vx (m/s) | vy (m/s) | ax (m/s ²) | ay (m/s ²) | Fx (N) | Fy (N) |
| y ₀ | initial height | 0 | m | 0.000 | 0.000 | 0.000 | 3.536 | 3.536 | 0.000 | -10.000 | 0.000 | -10.000 |
| v ₀ | initial speed | 5 | m/s | 0.033 | 0.118 | 0.112 | 3.536 | 3.203 | 0.000 | -10.000 | 0.000 | -10.000 |
| θ ₀ | initial angle | 45 | ° | 0.067 | 0.235 | 0.213 | 3.536 | 2.870 | 0.000 | -10.000 | 0.000 | -10.000 |
| g | gravitation field strength | 10 | m/s ² | 0.100 | 0.353 | 0.303 | 3.536 | 2.537 | 0.000 | -10.000 | 0.000 | -10.000 |
| m | mass | 1 | kg | 0.133 | 0.471 | 0.382 | 3.536 | 2.204 | 0.000 | -10.000 | 0.000 | -10.000 |
| dt | time step | 0.0333 | s | 0.167 | 0.589 | 0.450 | 3.536 | 1.871 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.200 | 0.706 | 0.507 | 3.536 | 1.538 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.233 | 0.824 | 0.552 | 3.536 | 1.205 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.266 | 0.942 | 0.587 | 3.536 | 0.872 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.300 | 1.060 | 0.610 | 3.536 | 0.539 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.333 | 1.177 | 0.623 | 3.536 | 0.206 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.366 | 1.295 | 0.624 | 3.536 | -0.127 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.400 | 1.413 | 0.614 | 3.536 | -0.460 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.433 | 1.531 | 0.594 | 3.536 | -0.793 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.466 | 1.648 | 0.562 | 3.536 | -1.126 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.500 | 1.766 | 0.518 | 3.536 | -1.459 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.533 | 1.884 | 0.464 | 3.536 | -1.792 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.566 | 2.001 | 0.399 | 3.536 | -2.125 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.599 | 2.119 | 0.323 | 3.536 | -2.458 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.633 | 2.237 | 0.235 | 3.536 | -2.791 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.666 | 2.355 | 0.137 | 3.536 | -3.124 | 0.000 | -10.000 | 0.000 | -10.000 |
| | | | | 0.699 | 2.472 | 0.027 | 3.536 | -3.457 | 0.000 | -10.000 | 0.000 | -10.000 |

Change a parameter value or click here to select and copy the gray cells.

X-Y plot



To change the range of copied cells, right-click the "projectile" worksheet tab and choose "View Code" from the popup menu.

Spreadsheet Physics

ML Morrison



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