

# Intro - Day 3

Everything for today is posted under day 3 of:  
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  - \* analytical vs. numerical
  - \* importance of timestep
  - \* how to check the accuracy of our simulations (conservation of E, L)
  - \* order of solvers (Euler vs. Hermite)

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- \* Off in to the wilderness! (N-Body)
- \* First, lets smash some planets:

Super Planet Crash! <http://www.stefanom.org/spc/>

**Bonus** - dealing with alien overlords:

<http://save-point.herokuapp.com/dashboard/users.php>

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Still keeping things in 2D - lets check out orbits of multi-planet systems

**\*\* Check out example code/Adventures on day 3 website \*\***





Adventure #2: Kepler planets - preprocessed data

Adventure #3: Kepler planets - pick your favorite system

Adventure #4: Rebound