Reading

Particle Systems Dynamics handout

Optional:

Hocknew and Eastwood. Computer simulation using particles. Adam Hilger, New York, 1988.

Gavin Miller. "The motion dynamics of snakes and worms." *Computer Graphics* 22:169-178, 1988.

Overview

Particle Dynamics

- One lousy particle
- Particle systems
- Forces: gravity, springs
- Implementation

Newtonian particle

2

- Differential equations: f=ma
- Forces depend on:
- Position, velocity, time

$$\ddot{x} = \frac{f(x, \dot{x}, t)}{m}$$











