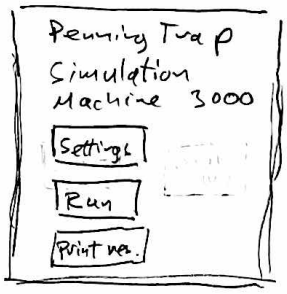
Code design: Who's running the simulation?

- Many ways of doing it, but here are two different strategies

1) • The main program starts the simulation,
   • Other part of code runs the complete simulation (loop over time steps) and takes care of saving result in memory or write to disk

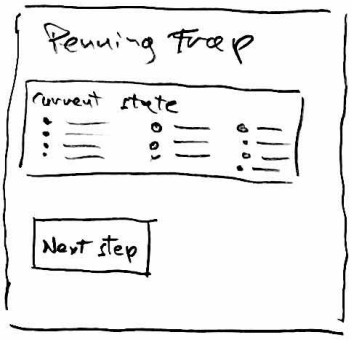


New output?
Modify the "simulation machine"

2) • The main program runs the loop over the time steps.

   • The simulated system (PenningTrap) doesn't contain any it's own history, it's just a system with a current state

   • The main program is responsible for extracting whatever info it wants at whatever time steps it wants



Personal opinion

- I find approach 2) more intuitive and flexible
- Can modify system how I want when I want without changing the PenningTrap code