SimulationSettings

+ external_gravity
+ gravitational_interaction
+ lennard_jones_interaction
+ goal_kinetic_energy
+ physics_time_step
+ physics_time_total
+ iter_count_until_save
+ iter_count_until_balance
_energy
+ boundary_behaviour

-_settings

Universe< n >

- _constraints
- _grid
- _particles

+ Universe()
+ add()
+ add_packed_particles()
+ fill_sphere()
+ random_fill()
+ simulate()
+ save_state()
- compute_simulation()
- init_grid()
- get_cell_id()
- get_cell_with_id()
- compute_cell_neighbours()
- empty_grid()
- place_particles()
- update_particles_cells()
- update_active_cells()
- update_forces_with
_grid()
- apply_boundary_force()
- compute_kinetic_energy()
- balance_kinetic_energy()
- reset_forces()