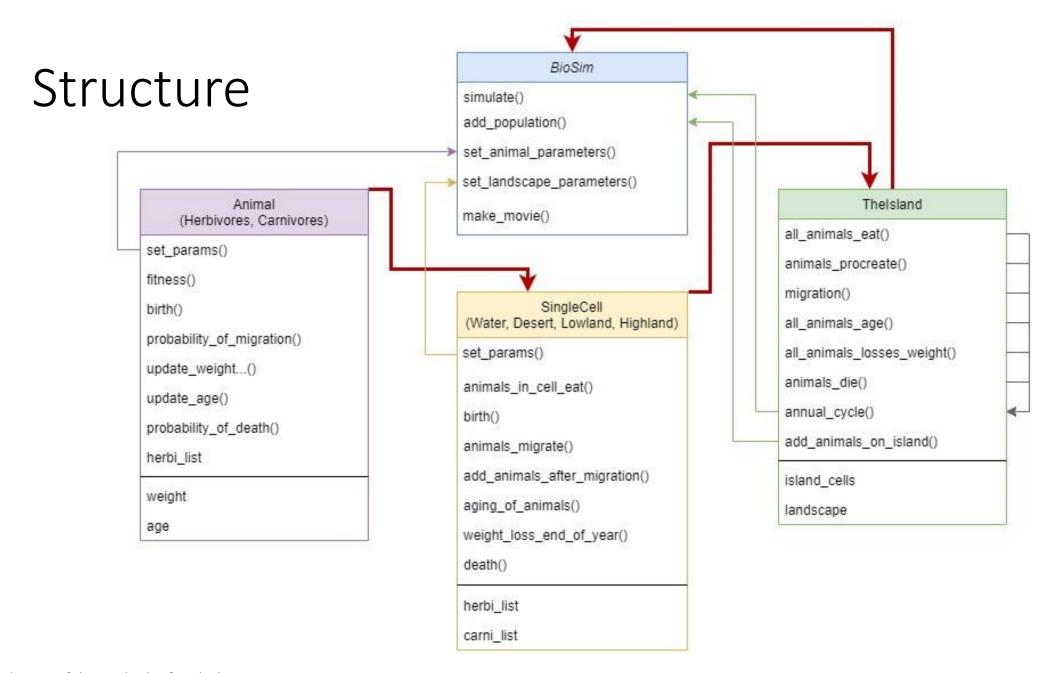
# BioSim

Modelling the Ecosystem of Rossumøya

Christine Brinchmann and Marie Kolvik Valøy Exam project INF200 - June 2020



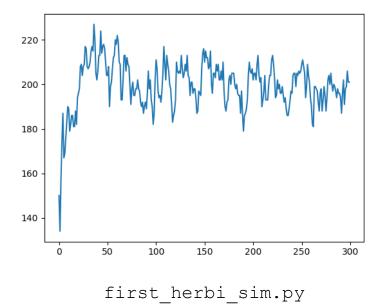
## Hiccups along the way

- Problems with death
- Migration solution ghost island
- Problems with the second round of simulation
  - Used some time debugging

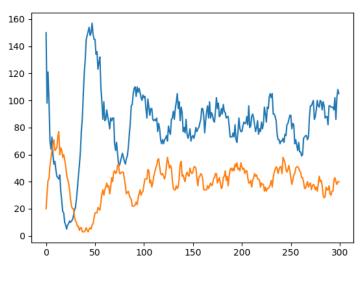
## Trustworthy code?

- Tests and coverage
- Statistical tests
- Documentation
- Checking code along the way
  - Main-sections
  - Plots

150 herbivores 0 carnivores

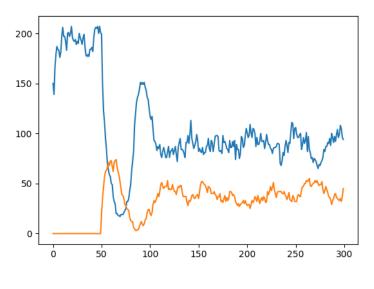


150 herbivores20 carnivores



first\_herbi\_carni\_sim.py

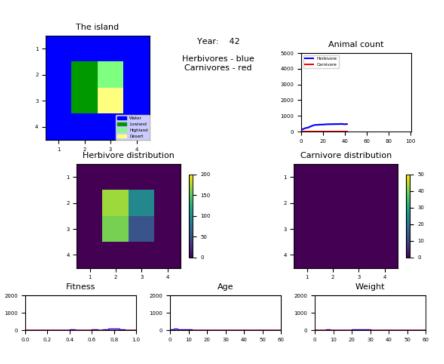
150 herbivores20 carnivores after 50 years



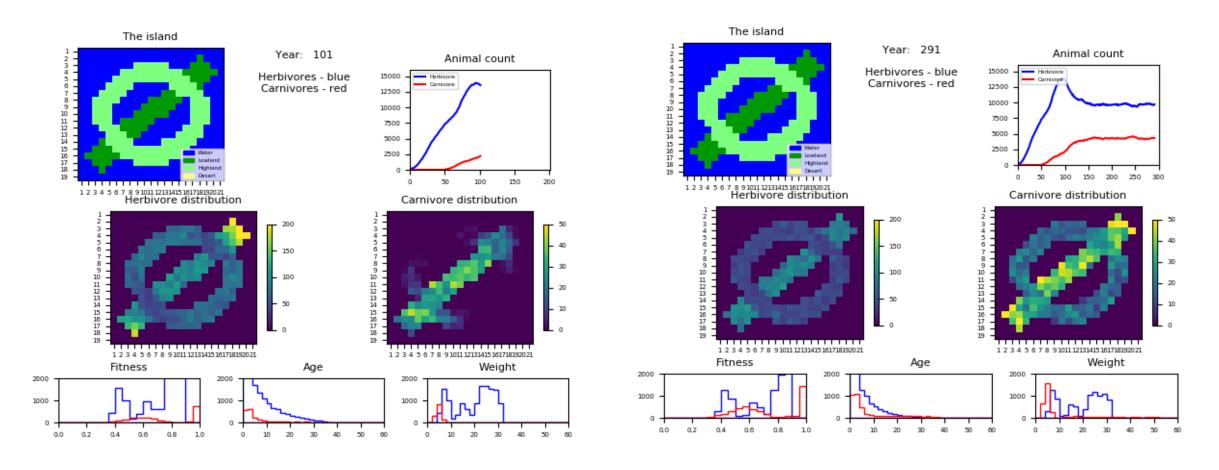
second\_herbi\_carni\_sim.py

#### Productive code?

- All parameters can be changed
- Error messages makes it is easy to correct "user mistakes"
- Running an easy simulation:

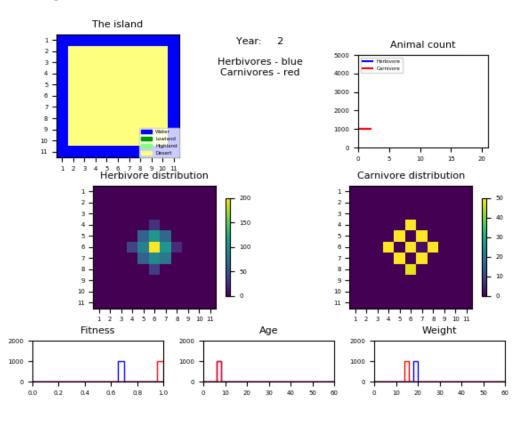


## Ø-island – BioSim works for islands of your choice!



#### We wish we had time to

- Made a fitness-attribute in Animal
- Look more at the checkerboard-test for migration
- Run simulation with different seeds
- Test other islands and parameters
- Optimize



### Movie

