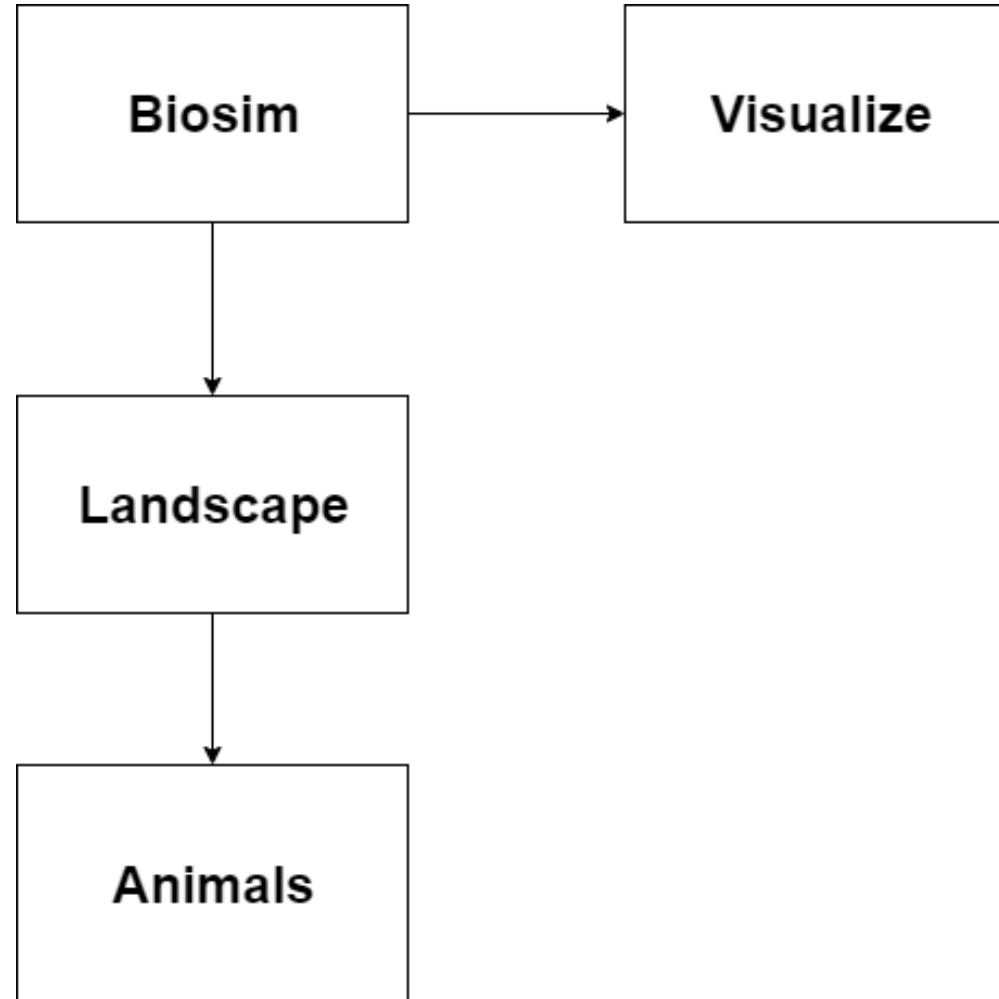


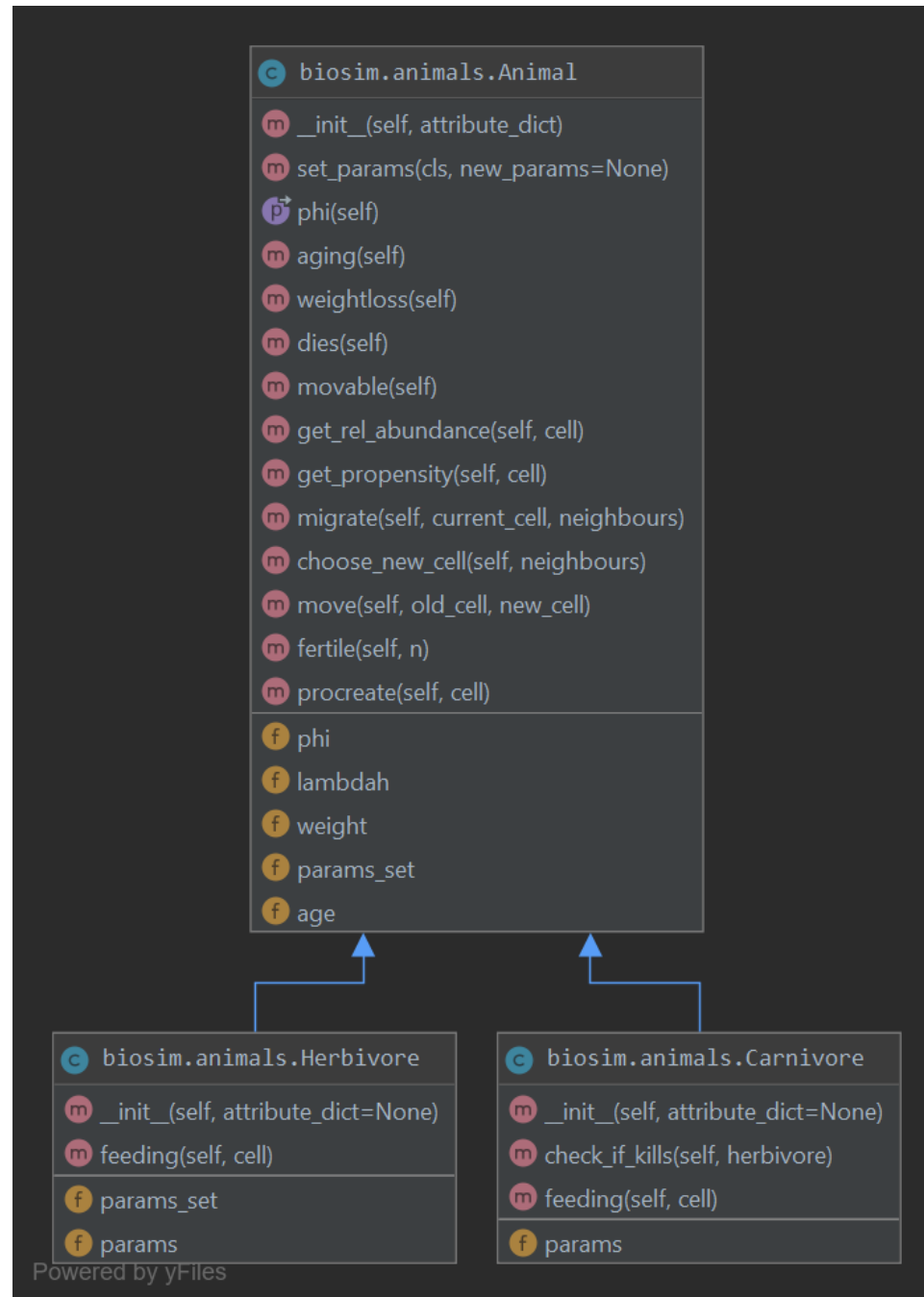
Modellering av økosystemet Rossumøya

Av Nina Mariann Vesseltun og Trude Haug Almestrand

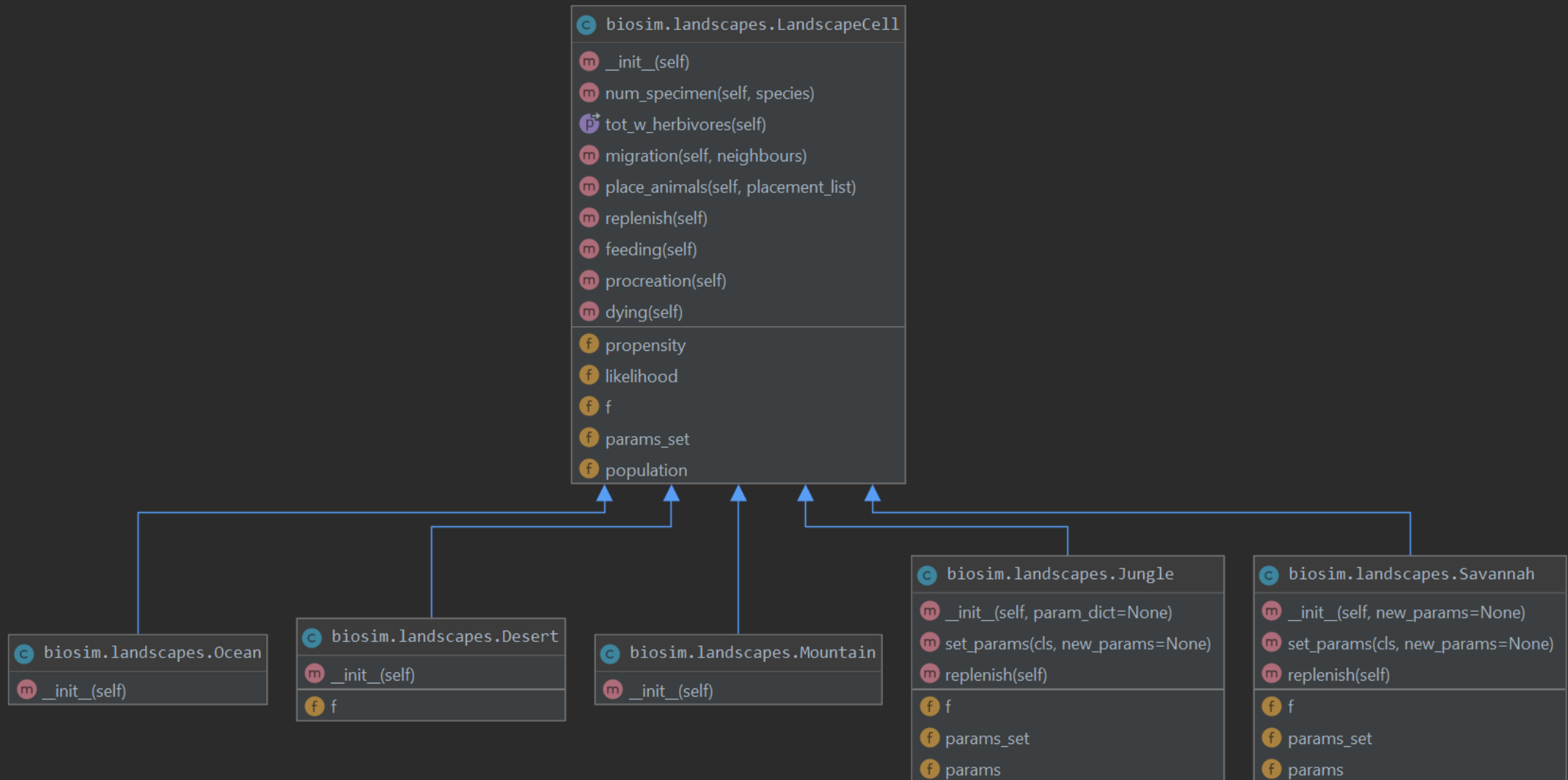
Klasser



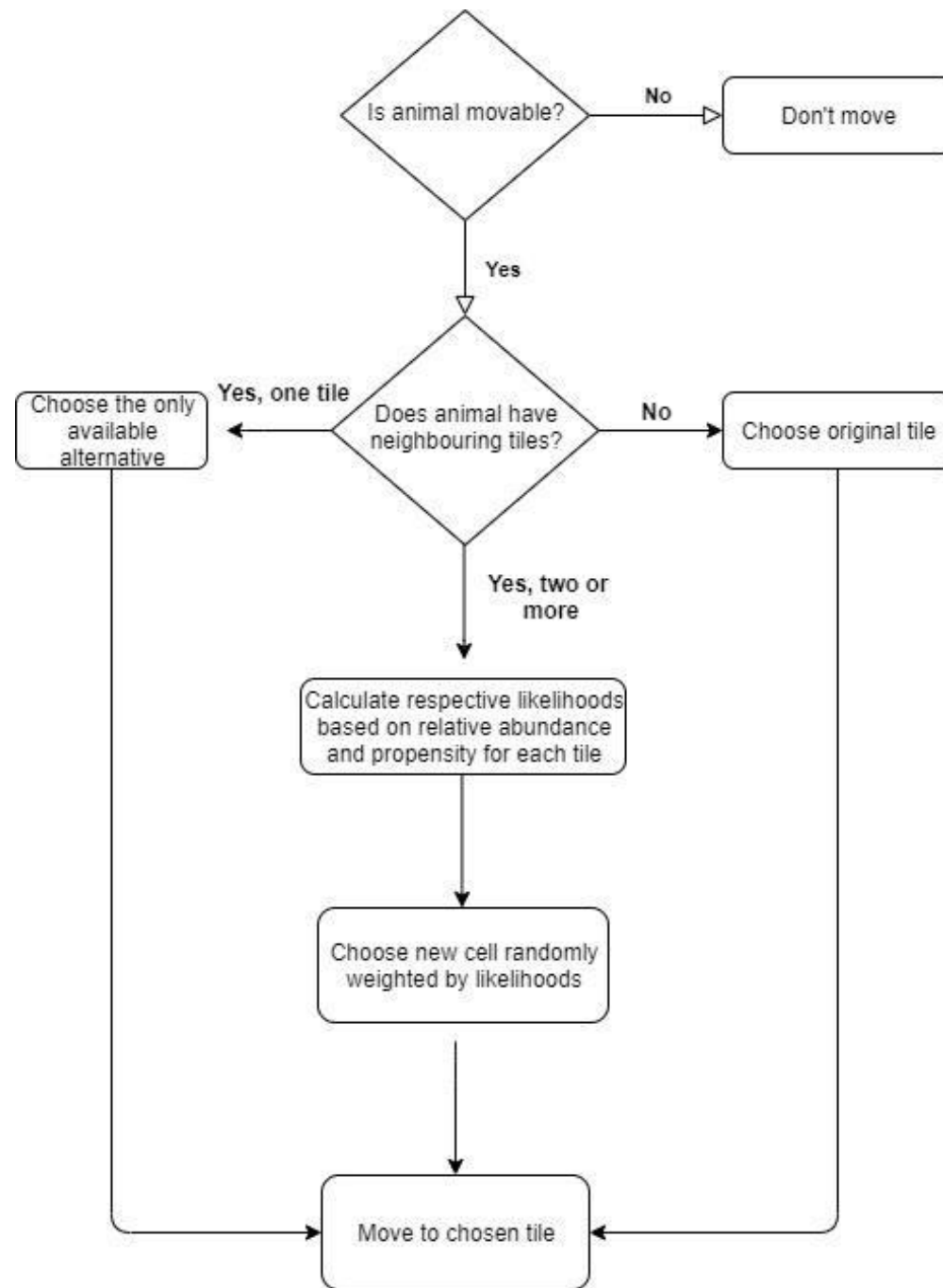
Animal:














Landscape



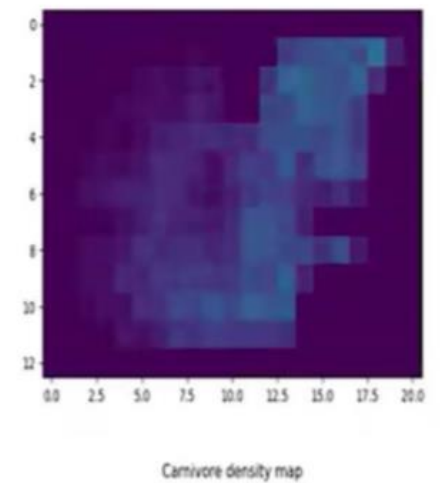
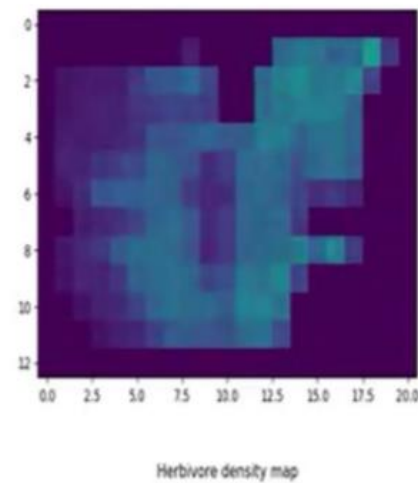
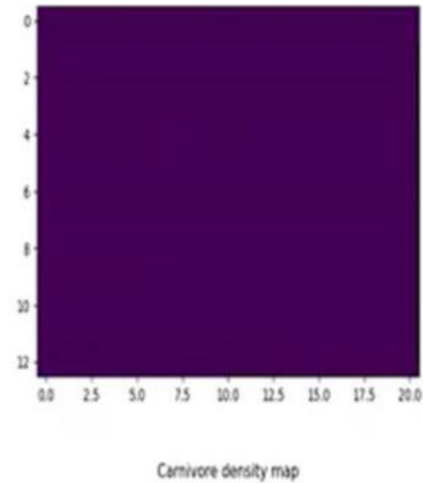
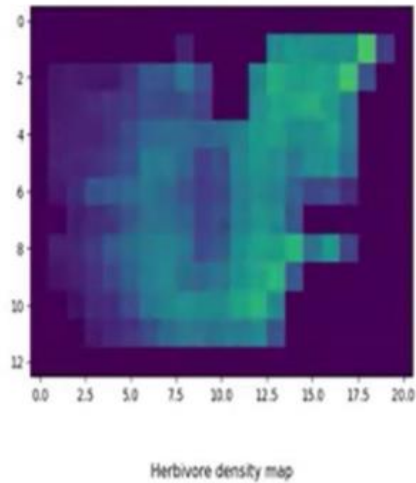
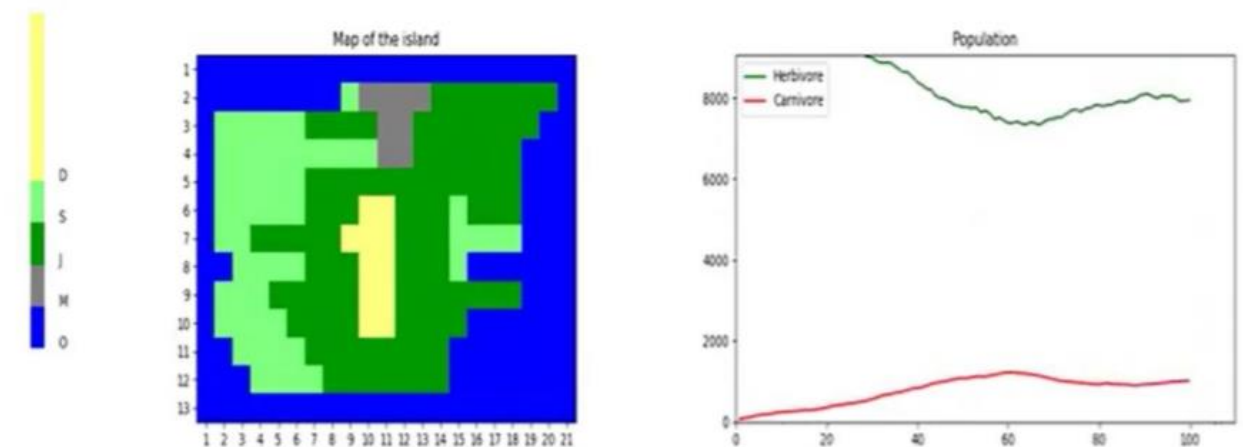
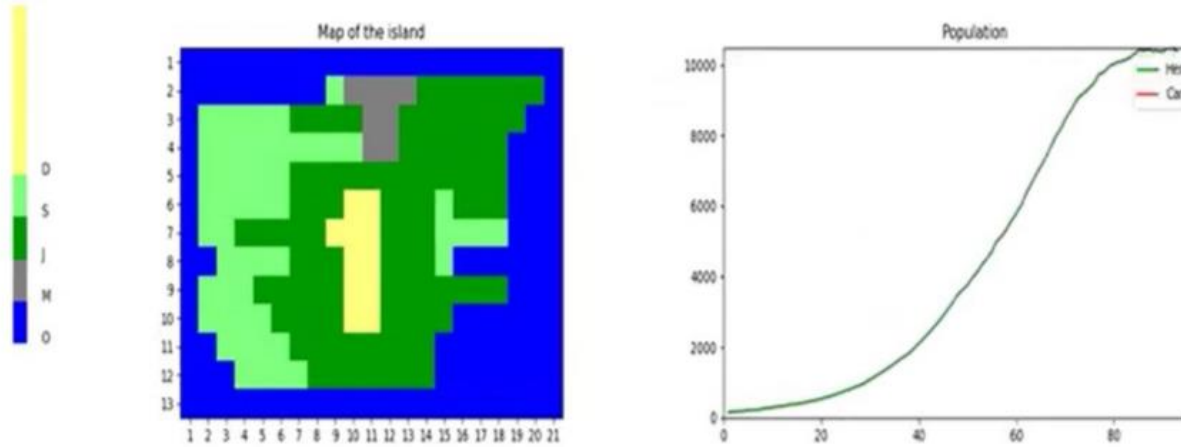
Migration



Testing

- ▼  src 71% files, 82% lines covered
 - ▼  biosim 71% files, 82% lines covered
 - >  .idea
 - >  doc 0% files, not covered
 -  __init__.py 100% lines covered
 -  animals.py 65% lines covered
 -  check_sim.pdf
 -  landscapes.py 86% lines covered
 -  rossum.txt
 -  simulation.py 96% lines covered
 -  visualization.py 82% lines covered

Visualisering



Visualisering

```
• biosim.visualization.Visualization
  • __init__(self, simulator, cmax_animals, ymax_animals, img_base=None, img_name=_DEFAULT_GRAPHICS_NAME, img_fmt='png', )
  • make_rgb_map(self)
  • population_line_plot(self, vis_years)
  • update_population_line_plot(self)
  • heatmap_herbivore(self)
  • heatmap_carnivore(self)
  • update_heatmap_herb(self)
  • update_heatmap_carn(self)
  • visualize(self, vis_steps)
  • update_graphics(self)
  • make_movie(self, movie_fmt=_DEFAULT_MOVIE_FORMAT)
  • _save_graphics(self)
  • heat_herb
  • img
  • img_base
  • _fig
  • cmax_animals
  • _img_ctr
  • line_carnivore
  • heat_carn
  • sim
  • img_fmt
  • _final_step
  • ymax_animals
  • ax2
  • _step
  • ax1
  • ax4
  • ax3
  • line_herbivore
```


BioSim:

```
biosim.simulation.BioSim
m __init__(self, island_map=None, ini_pop=None, seed=None, ymax_animals=None, cmax_animals=None, img_base=None, img_fmt=None)
m str_to_dict(self, txt)
m check_txt(self, txt)
m set_animal_parameters(self, species, params)
m set_landscape_parameters(self, landscape, params)
m add_population(self, population)
p year(self)
p year(self, n)
p num_animals(self)
p num_animals_per_species(self)
p animal_distribution(self)
m all_cells(self, myfunc)
m all_animals(self, myfunc)
m migration(self)
m one_year(self)
m simulate(self, num_years, vis_years=1, img_years=None)

f Vis
f year
f land_dict
f active
f island_map
f per_species_results
f _year
f cmax_animals
f num_years
f num_animals_results
f img_years
f map_full
f ymax_animals
f name
f sim_years
f map
f vis_years
f map_active
```