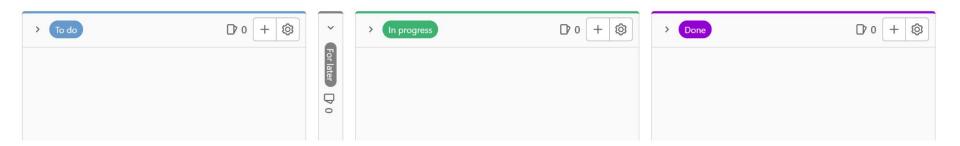


BioSim project for INF200

by Andrine Zimmermann and Karin Mollatt 24.01.2022

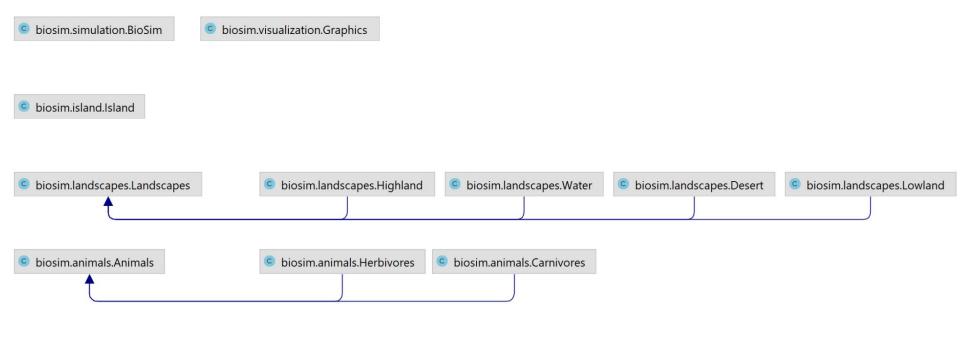
Approach of project



- Gitlab
- Preparation
- Time management



Structure of code





Example of a solved problem

```
moved_herbs = []
moved carns = []
if self.map[cell].available is True:
    migrated herbs, migrated carns = self.map[cell].distribute migrated animals()
    for herb in migrated_herbs:
       next_loc = self.find_adjacent_cell_migrate(cell)
        if self.map[next_loc].available is False:
            break
        else:
           self.map[next_loc].add_single_animal(herb)
           herb.has_migrated = True
           moved_herbs.append(herb)
    self.map[cell].list_herbivores = [herb for herb in self.map[cell].list_herbivores
                                     if herb not in moved_herbs]
    for carn in migrated_carns:
       next_loc = self.find_adjacent_cell_migrate(cell)
       if self.map[next_loc].available is False:
            break
        else:
           self.map[next_loc].add_single_animal(carn)
           carn.has_migrated = True
           moved_carns.append(carn)
    self.map[cell].list_carnivores = [carn for carn in self.map[cell].list_carnivores
                                     if carn not in moved carnsl
```



[44%]

52%] 56%]

[75%]

[100%]

Test coverage

```
tests\test_landscapes.py .....
tests\test_island.py .....
tests\test_simulation.py .....
tests\test_biosim_interface.py ......
tests\test_animals.py .....
----- coverage: platform win32, python 3.8.11-final-0 ------
Name
                                    Stmts Miss Cover
.tox\py38\Lib\site-packages\biosim\__init__.py
                                              100%
.tox\py38\Lib\site-packages\biosim\animals.py
                                      105
                                               97%
.tox\py38\Lib\site-packages\biosim\island.py
                                     148
                                               96%
.tox\py38\Lib\site-packages\biosim\landscapes.py
                                               98%
                                      125
.tox\py38\Lib\site-packages\biosim\simulation.py
                                               93%
.tox\pv38\Lib\site-packages\biosim\visualization.pv
                                      211
TOTAL
                                     663
```

py38: commands succeeded congratulations :)

5

