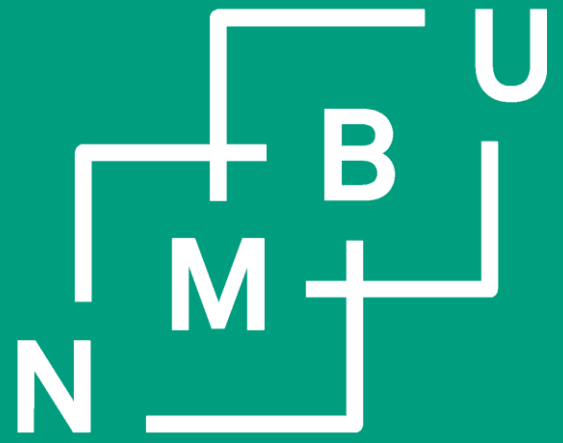
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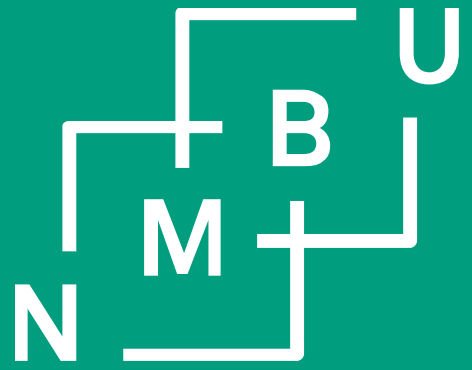


Norwegian University
of Life Sciences

Modelling the Ecosystem of Rossumøya

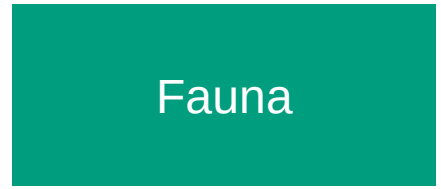
INF200 January Exam Group 19

Hemanth Babu Sana, Mithunan Sivagnanam

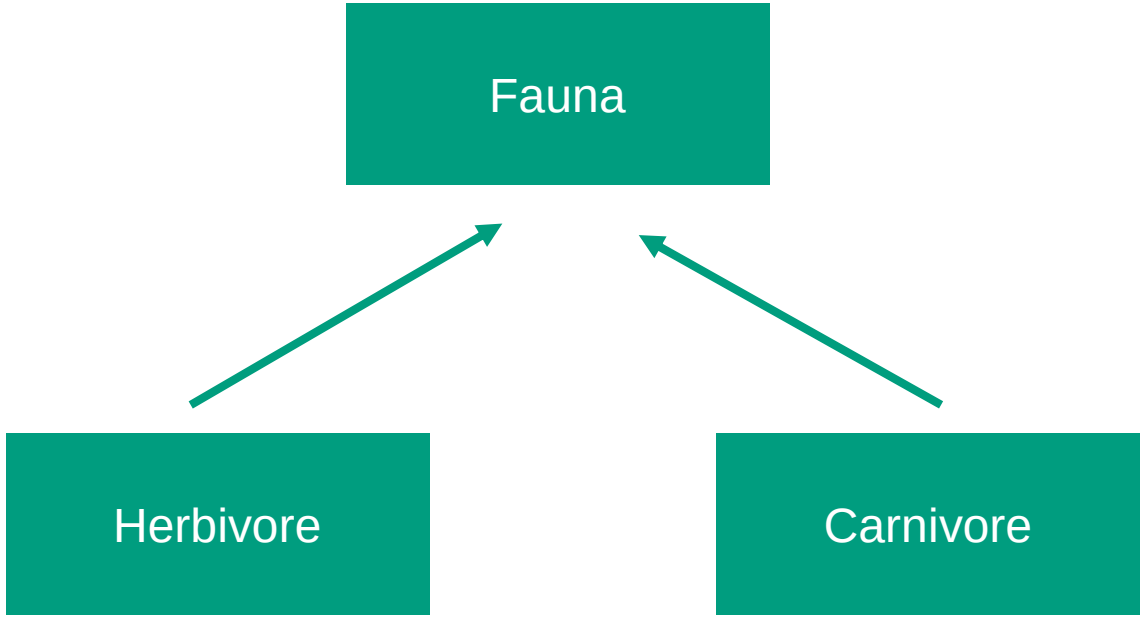
Contents:

- Class Diagram of the Model
- Functionalities of each class
- What went good
- What didn’t go well
- Extra Features
- Code Trustworthy
- Live Debug

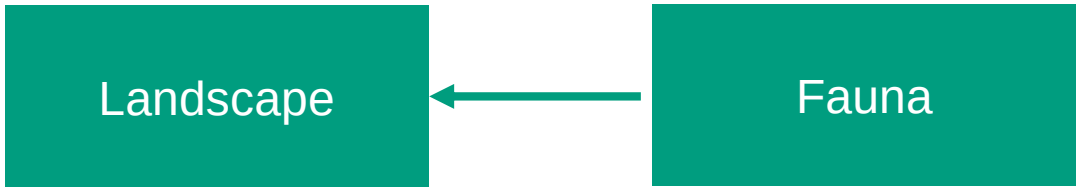
Class Diagram:



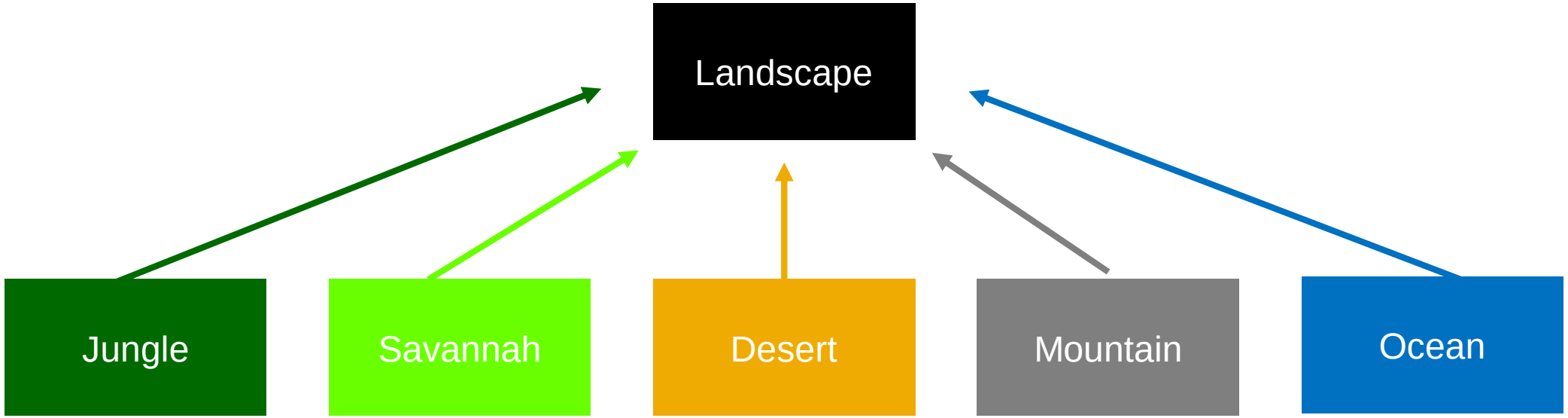
Fauna Class Diagram:



Class Diagram:

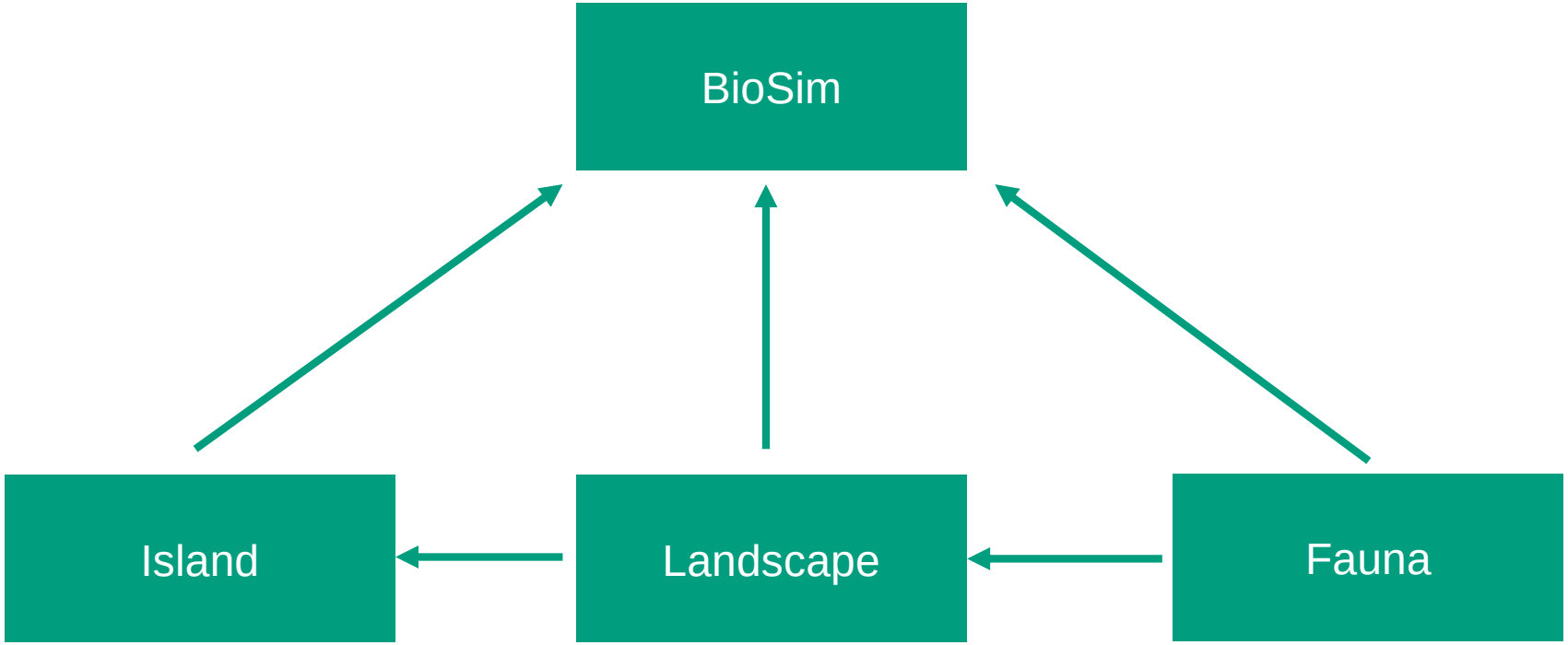


Landscape Class Diagram:

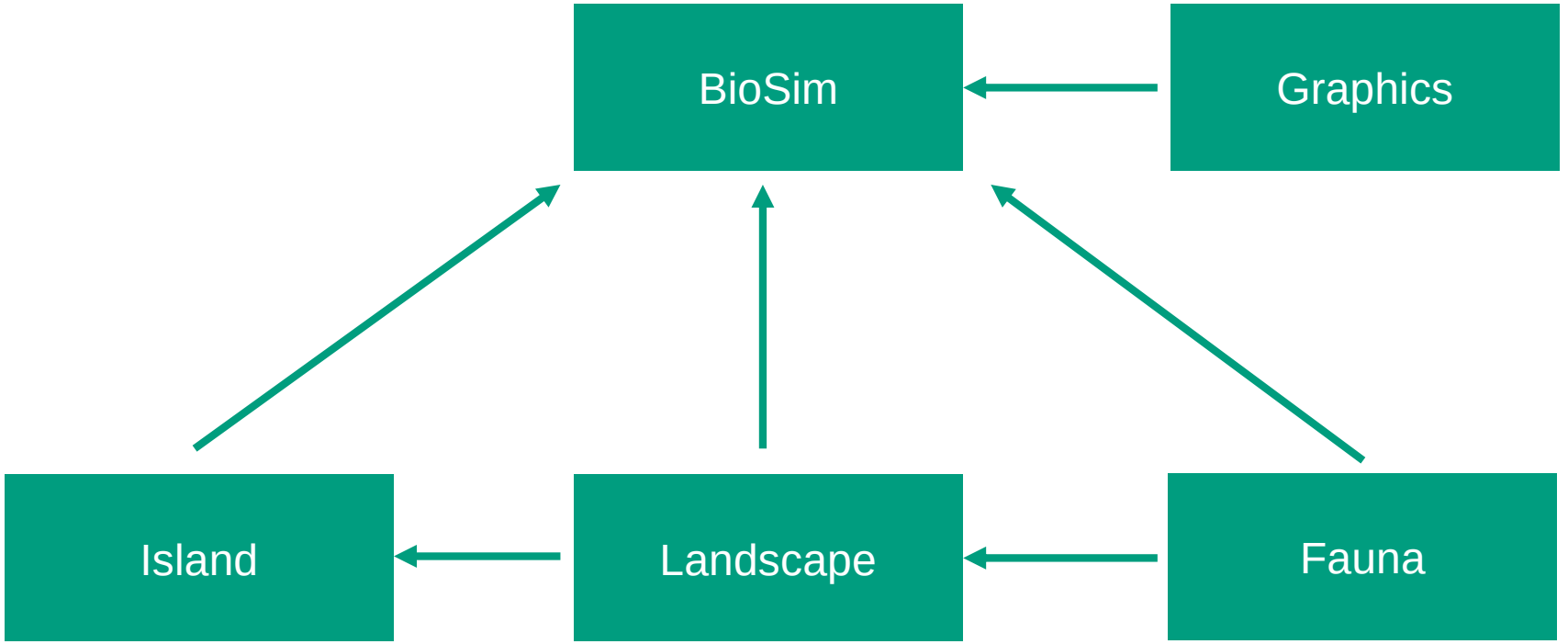


Class Diagram:

Class Diagram:



Class Diagram:



What went good?

- Getting complete picture of the project by on-the-desk simulation
- Making the class diagrams beforehand.
- Evaluating multiple ways to optimize the code.

Extra Work:

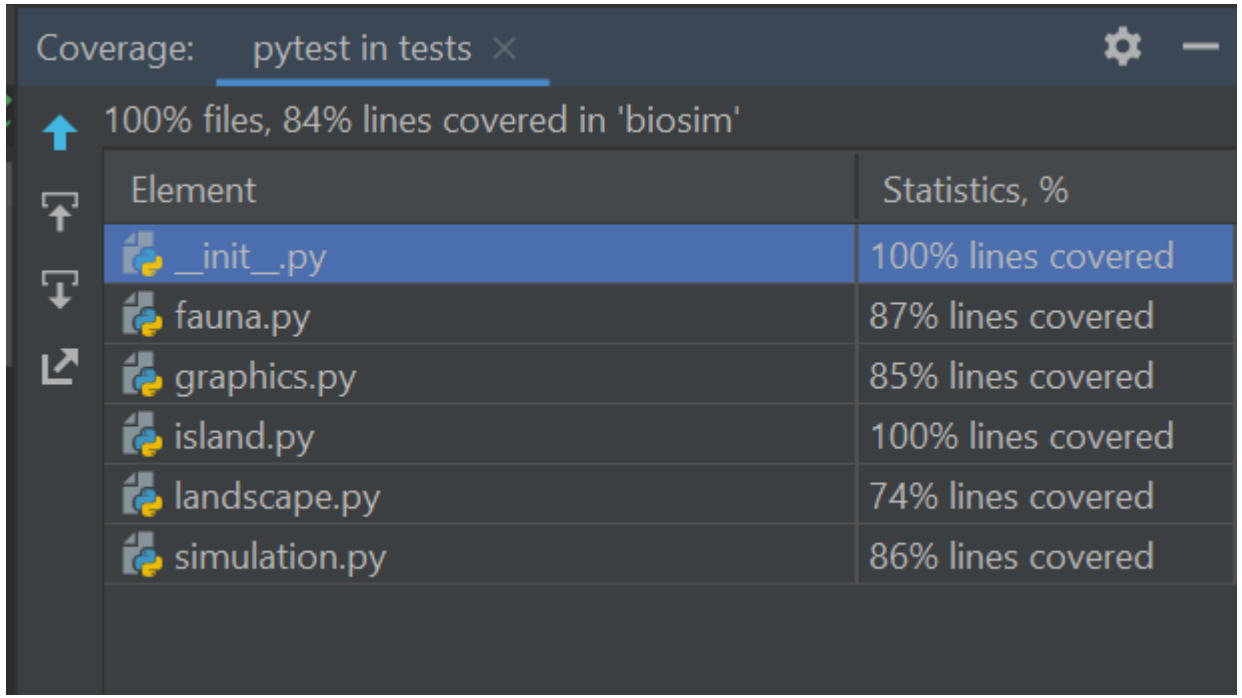
- Made code maintainable for further use.
- Using variable names to get its obvious purpose.
- Doc Strings for each method to explain its use.
- Test driven development to find out early bugs.

Challenges:

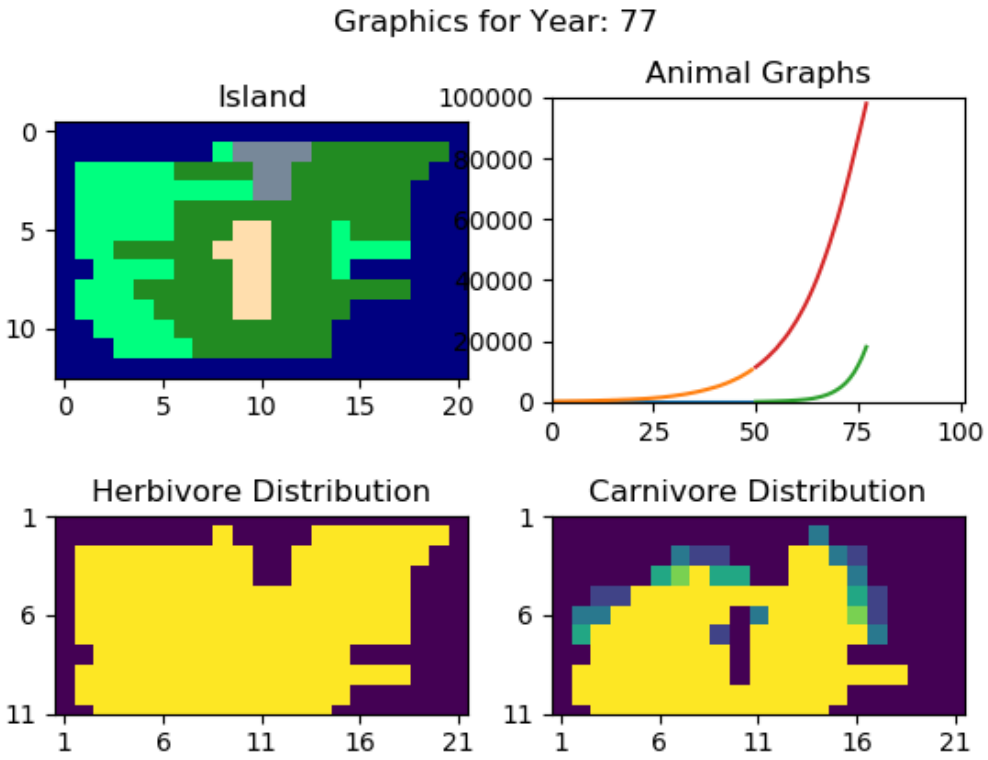
- Herbivores increase in number drastically
- Lazy Initialization
- Animals migrate multiple times a year

Trustworthy?

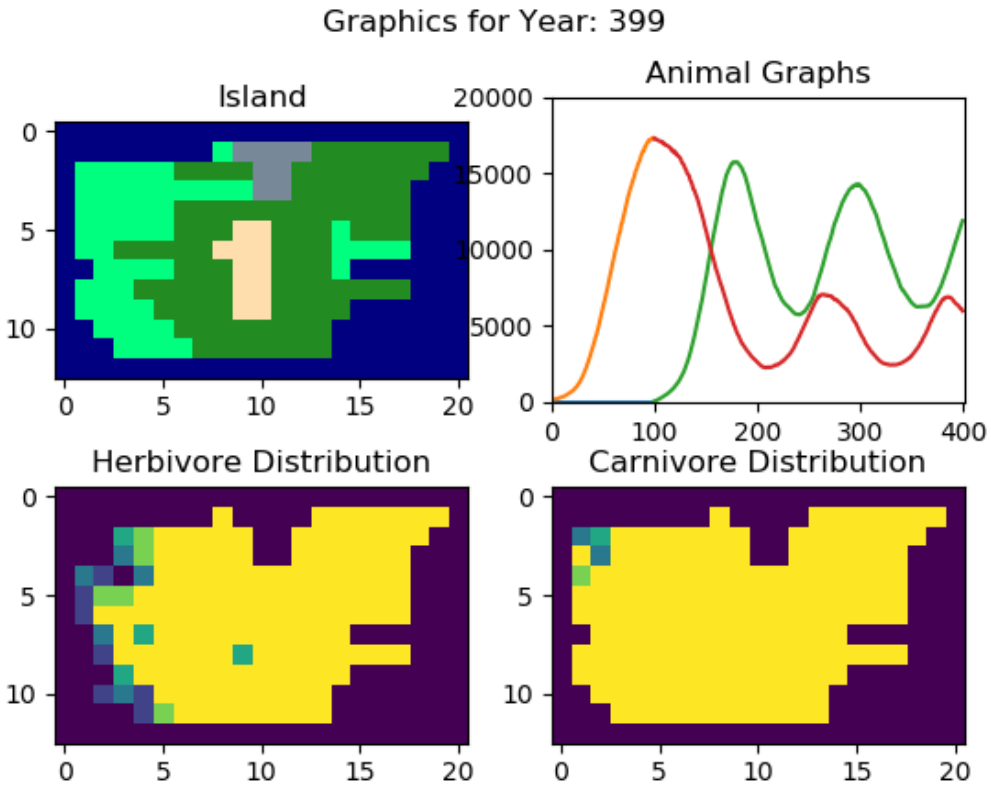
- Unit tests for most of the functionalities.



Bug:


Graphics for Year: 77
Island
Animal Graphs
Herbivore Distribution
Carnivore Distribution

After Fixing:



Any Questions from Environmental Protection Agency Of Pylandia?