

Fundamentals of Artificial Intelligence

Programming Exercise Probability

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Probability: Hidden Markov Model

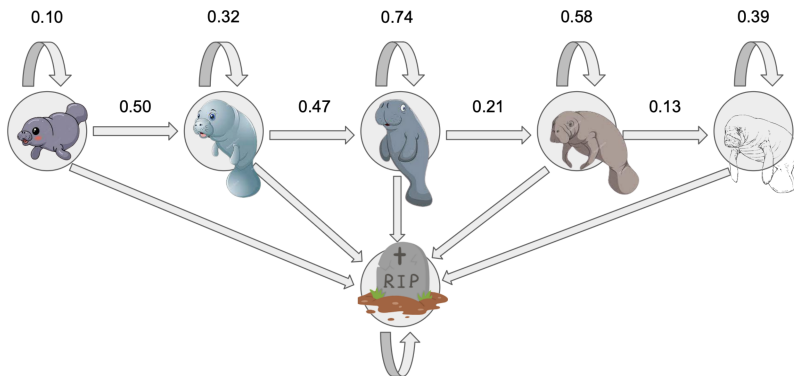
Keep up ALIVE, do the BEST that you CAN!



Figure: Credit: <https://aldf.org>

Probability: Hidden Markov Model

In this programming exercise, we want to infer a manatee's life cycle from an observation sequence based on an Hidden Markov Model.



General Information - Probability

Start and Deadline

- **Start: 19.01.2023, 18:30**
- **Deadline: 17.02.2023, 23:59**

Framework:

- Publication, Guidelines, and Submission of the exercise on **ARTEMIS** (<https://artemis.ase.in.tum.de/>)
- Probability Exercise introduction on **Moodle**
- Implementation of your solution in provided **Jupyter Notebook**
- Successful submission → **1 Bonus Point**

ARTEMIS - Implement and Submit Solution

- ① Start the *Jupyter* web-interface:
 - Docker: Go to <http://localhost:8888/> with your browser
 - Git: Enter `cd PATH_TO_YOUR_AIMA_DIRECTORY`, then `jupyter notebook` in your Terminal
- ② Find your exercises under `/homework/foai22HMM-<your_TUM_ID>`
- ③ **Implement your solution** in `HMM.ipynb`
- ④ **Submit** to ARTEMIS in your Terminal via git:
 - `git add HMM.ipynb`
 - `git config user.email "<your.TUM@email.de>"`
 - `git config user.name "<Your Name>"`
 - `git commit -m "Write a commit message here."`
 - `git push`
- ⑤ **Check evaluation** on ARTEMIS