

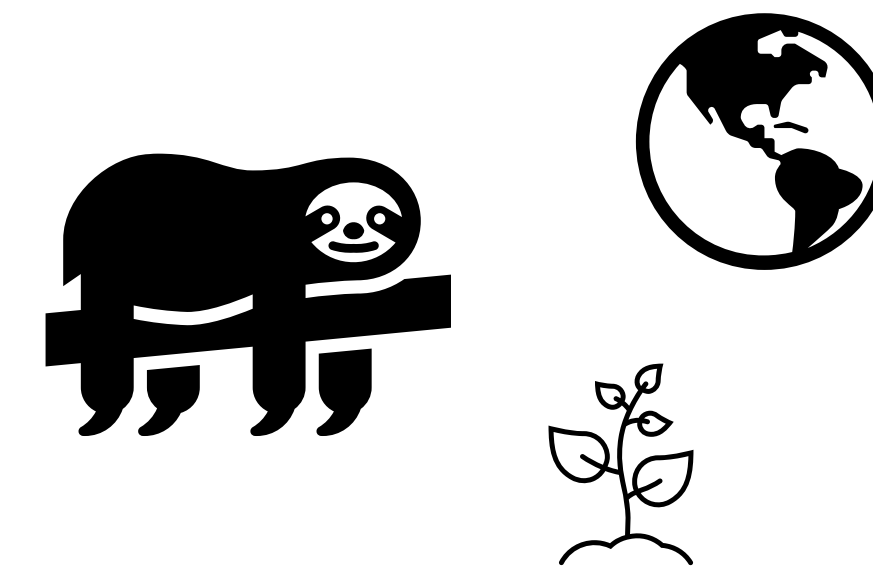
Domain

information about several animals in the Wilhelma (zoo in Stuttgart);

suggestion on how to visit them in the best order, according to their feeding time

Example

Welcome! How may I help you?



I am looking for a brown animal

What should the animal's
continent of origin be?

It should be south america

The animal called two toed sloth
is mainly brown and it comes from south america.

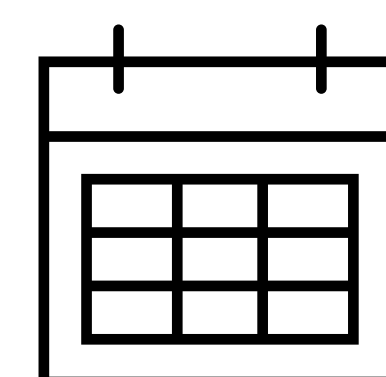
What is its main food?

The animal called two toed sloth mainly eats leaves,
insects and fruits.

Tell me about its specialties

The animal called two toed sloth it is the slowest
mammal.

Opening Hours



encoded as a SysActionType;

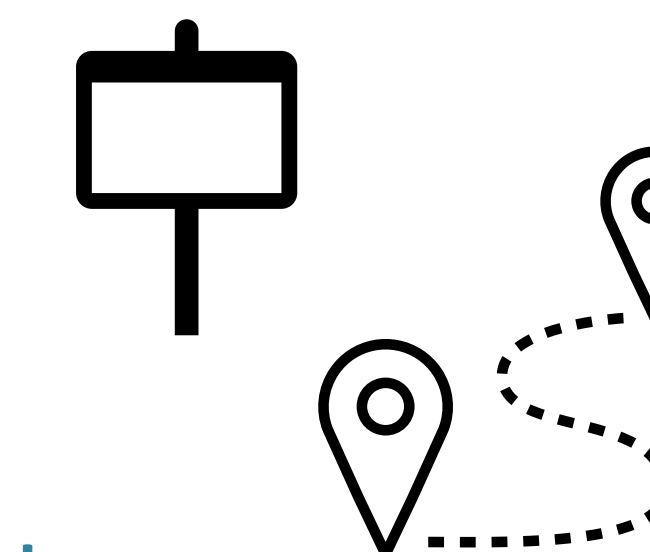
hard coded template opening(), containing information

Visiting Path

I want to visit the elephant

Which other animal do you want to visit?

The penguin and the anaconda

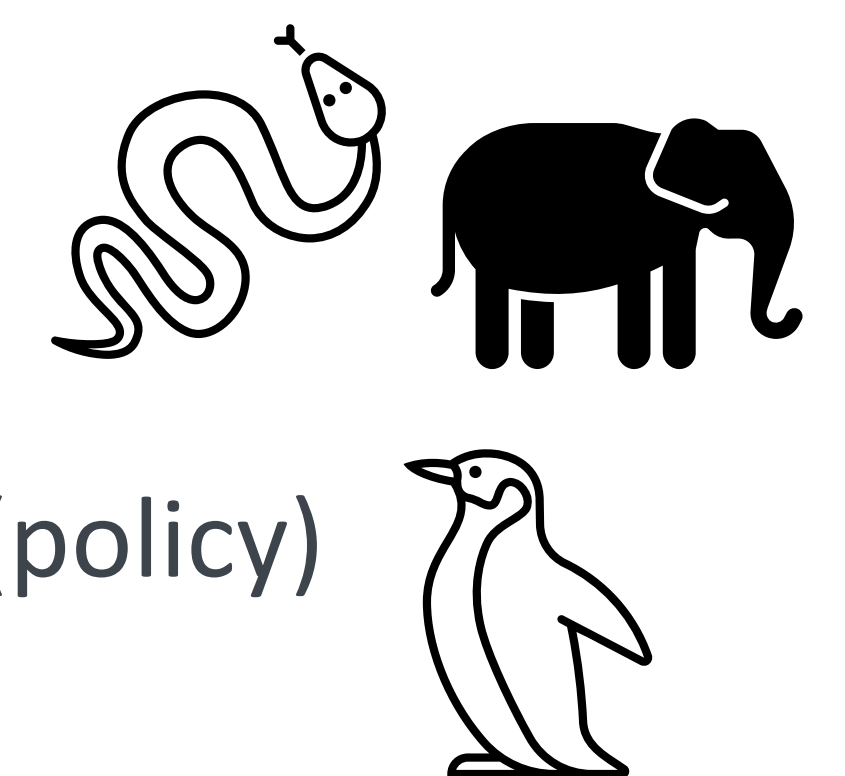


According to the feeding times, it would be best to first visit the green anaconda which is fed at 11:30 o'clock, then visit the asian elephant fed at 13:00 o'clock, and finally visit the african penguin to not miss its public feeding at 13:30 o'clock.

function for recognizing three animals and checking their feeding times (beliefstate)

function to sort the feeding times and add the corresponding animal for the output (policy)

the values "none" or overlapping feeding times are considered



Challenges

...in the system

- "Africa" appears both in continent_of_origin and in location_in_wilhelma
- value for feeding_times can be the same for different animals

... in the process

- tedious to keep track of all parts (files) while implementing new functions
- linguistic abilities of the system

Conclusion

- possible to get information
- not completely based on real information
- you have to know what you ask for

Future Work

- machine learning approach
- include park map for visiting path

Maximilian Schmidt
Lindsey Vanderlyn
Dirk Vöth
Prof. Dr. Thang Vu