

Multi-Agent Systems

B. Nebel, F. Lindner, T. Engesser
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University of Freiburg
Department of Computer Science

Exercise Sheet 0

Important information: You will be required to turn in your solutions to the theoretical and practical exercises in groups of **three to four students**. All submissions are made electronically via git. For optimal support, we strongly encourage you to use a current Linux-based operating system (e.g., Ubuntu). The aim of this first sheet is for you to form groups and setup your programming environment.

Exercise 0.1 (Group registration, **due Thursday**)

Send an e-mail to `engesser@cs.uni-freiburg.de` (until Thursday) containing for each group member (1) the full name, and (2) a valid e-mail address. We will use this information to setup an account for each of you (on our gitlab-server) and create a submission repository for each group.

Exercise 0.2 (Python setup, no submission)

For the practical exercises during the first few weeks, we will use our own small multi-agent simulation framework written in Python (later, we will use an Eclipse/Prolog-based BDI framework). You will need current versions of Python (version 2 or 3), Pygame and Numpy to run it.

E.g., if you use Ubuntu, you can install Python 2 with Pygame and Numpy via:

```
$ sudo apt-get install python python-pygame python-numpy
```

To check whether your installation was successful, you can try the following commands in your Python 2 shell:

```
>>> import pygame
>>> import numpy
```

Exercise 0.3 (Git installation, no submission)

Install git. E.g., if you use Ubuntu, you can install it via:

```
$ sudo apt-get install git
```

To check whether your installation was successful, you can try the following command in your shell:

```
$ git --version
```

More information on how to use git can be found at <https://git-scm.com/book/en/v2/Git-Basics-Getting-a-Git-Repository>.