Installing Webots on your personal systems

1 Webots installation

For the laboratory project you will need following software packages:

- Webots 8.5.3 (or newer), mobile robot simulator from Cyberbotics
- MATLAB

These software packages are pre-installed on the Linux systems in room CM103. However, if want to work on your own computer, you can also install Webots on your personal Linux, Mac or Windows machine. You can download the Webots version for your operating system from:

https://www.cyberbotics.com/download

Corresponding installation instructions can be found here:

https://www.cyberbotics.com/doc/guide/installation-procedure

To get access to the license server for EPFL students you can use the following login:

e-mail: epfl@cyberbotics.com

password: JXG01UqOFWX8u6+f7WsJgcY5k0Y=

To be able to connect to the licence server from non EPFL network (e.g. from home), you should use EPFL VPN.

2 Using Matlab with Webots

Controllers for robots simulated in Webots can be written in several different programming languages. For the simplicity we will use Matlab. Instructions on how to use Matlab together with Webots can be found here:

https://www.cyberbotics.com/doc/guide/using-matlab

Please pay attention to possible compatibility issues depending on your system.

On Windows systems in the room CM103 it might be needed to adjust system PATH variable to make Matlab location visible to Webots. To test if such action is needed, open Command Prompt and enter *matlab*. If Matlab successfully launches, Webots should be able to see it. Otherwise, enter the following command to the Command Prompt:

setx path "%path%;C:\Program Files\MATLAB\bin"

Please check beforehand if location "C:\Program Files\MATLAB\bin" corresponds to Matlab directory on your system, otherwise adjust accordingly. After closing and reopening Command Prompt you should be able to start Matlab by typing *matlab*. Now Webots should be able to successfully start Matlab controllers.