Webots Installation from Source

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Clone from Github Repository

Clone **Webots** from repository

```
git clone --recurse-submodules --branch release https://github.com/RoboCup-Humanoid-TC/webots
cd webots
```

Install Prerequisites Packages

- Install **Webots** dependencies

```
sudo scripts/install/linux_compilation_dependencies.sh
```

- In particular, if the `python` command is not available on your system, you may need to install the `python-is-python3` package

```
sudo apt install python-is-python3
```

Build Webots

Compile **Webots**

```
make
```

Setup Bash Profile

Append the string in `WEBOTS_HOME=/path/to/webots` to `~/.bashrc`

```
echo "export WEBOTS_HOME=/path/to/webots" >> ~/.bashrc
```

Post Install

- Build the latest version of the official RoboCup Humanoid TC fork of the GameController.

```
sudo apt-get install ant
git clone https://github.com/RoboCup-Humanoid-TC/GameController
cd GameController
ant
```

- Install Java dependencies.

```
java -version
sudo apt install default-jre
javac -version
sudo apt install default-jdk
```

- Install Python dependencies.

```
cd webots/projects/samples/contests/robocup/controllers/referee
```

```
pip3 install -r requirements.txt
```

- Build the controllers.

```
sudo apt-get install protobuf-compiler libprotobuf-dev libjpeg9-dev
cd webots/projects/samples/contests/robocup
```

Run the Demo

- Open the robocup.wbt world file in **Webots** and run it until you see the GameController window showing up.

```
echo "export GAME_CONTROLLER_HOME=/path/to/GameController" >> ~/.bashrc
echo "export JAVA_HOME=/usr/lib/jvm/java-xx-openjdk-xxxx" >> ~/.bashrc
./webots ./projects/samples/contests/robocup/worlds/robocup.wbt
```

  You have to pass the environment variables `GAME_CONTROLLER_HOME` which points to the `GameController` folder and `JAVA_HOME` which points to your Java installation (which might be under `/usr` or you can use this command to know

```
readlink -f $(which java)
```

- You can manually move the robots and the ball using the mouse (Shift-right-click-and-drag).

Read more at Linux installation · cyberbotics/webots Wiki (github.com)

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