



# BWINPro ForestSimulator7.8

Version 7.8

Installation

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## General

This is a description of the installation process. The installation is written for Microsoft Windows Systems. The program is written in Java and should run on all operating systems. It is tested on Microsoft 7 and Ubuntu 14.04 LTS.

## Requirements:

The program is written in Java. It can run on any machine meeting the following requirements:

- Java Runtime Engine (JRE) 1.7 or higher (<http://www.java.com>). You might need administrator rights to install the JRE.
- Java 3D.
- Important: You have to install the JRE before Java 3D. If the JRE is updated, it might be necessary to reinstall Java 3D.

## Installation

There is no setup routine needed to run the program. You can store the program in any directory and you do not need administration rights. Just unpack the file ForestSimulator.zip in a directory on your computer. In this example the zip file is unpacked to **Eigene Dateien\ForestSimulator75**. If you do not have a program for unpacking, get the free software 7Zip for Windows from the internet (<http://www.7-zip.org/>).

After unpacking you will find in the directory (here: ForestSimulator75) the following directories and files.

\data_standsimulation	Directory for your data and some examples
\output_standsimulation	Directory for your results
\user	Directory with growth model XML-File and other important program resources.
ForestSimulator.jar	File to start the application
ForestSimulator.cmd	File to start the application in Windows with more memory for larger stands
\lib	Directory holding the used additional Java classes and libraries
License.txt	GPL- License text
Installation.pdf	This file

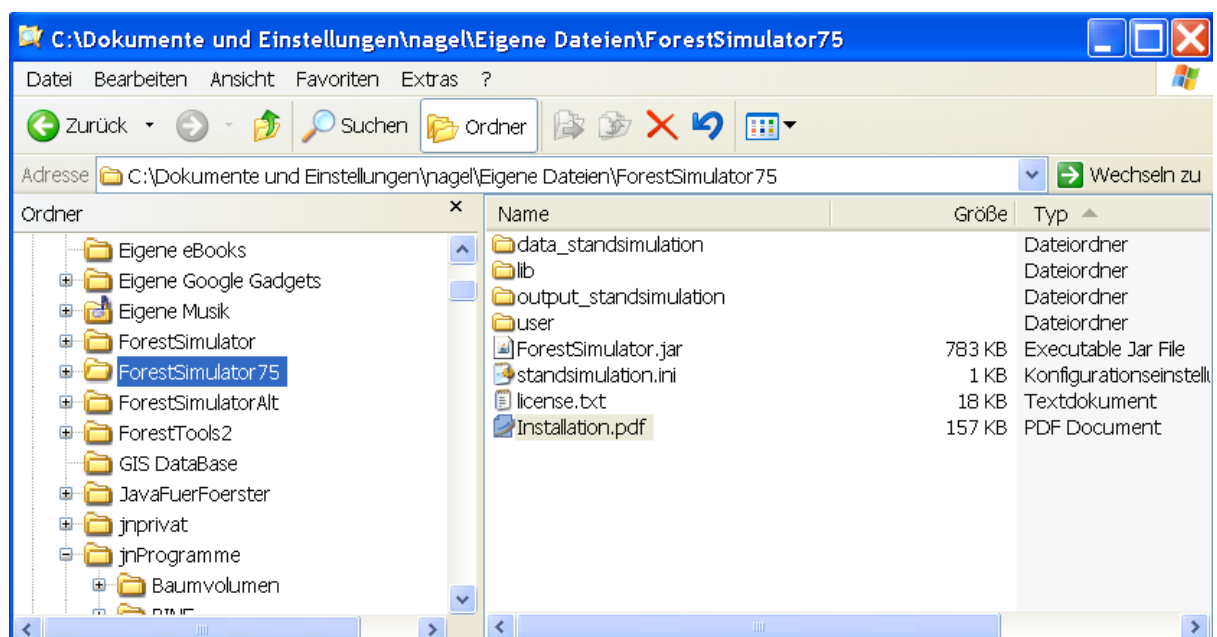


Figure 1: Directory and files

## Installation of ForestSimulators under Linux Ubuntu

Install the Java Runtime Engine (JRE) using the **Ubuntu Software Center** or get the JRE from Oracle.

Install Java 3D, if you want to use the 3D-grafic otherwise skip the following step. You will find instructions to install Java3D on the internet page:

<https://help.ubuntu.com/community/Java3dUbuntu>

Unzip the file **ForestSimulator7.zip** into a directory of your choice. Double click **ForestSimulator.jar** .

To make the java file ForestSimulator.jar runnable you have click on the file in the file manager with the right mouse button. Select Settings and rights and check the box at runnable.

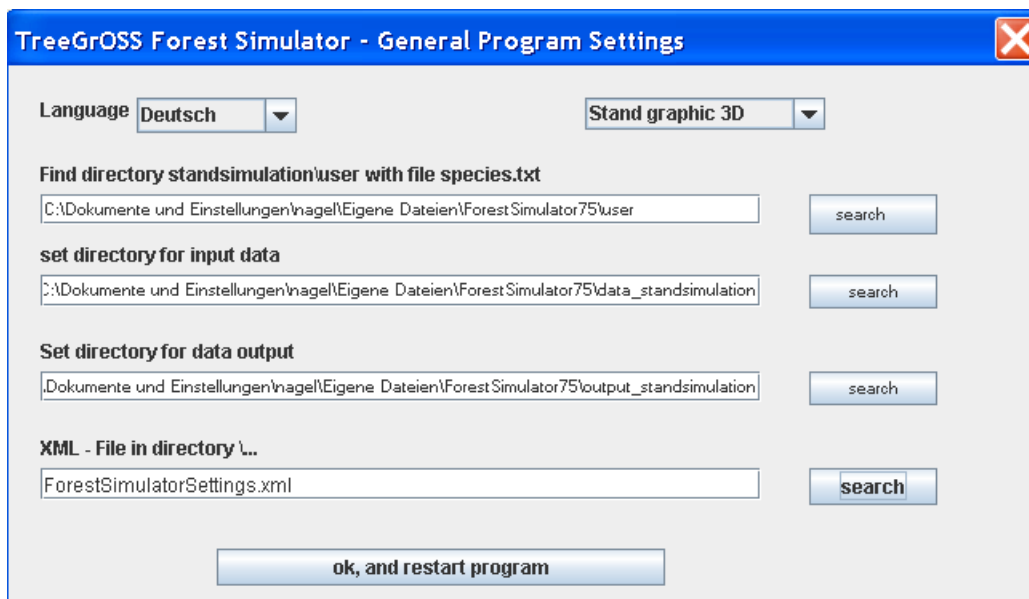
## First Program Start

If the program is started for the first time the file **ForestSimulator.ini** (fig.1) is not existing. This file gets created when you start the program the first time and it stores some important information.

Start the program by double click on **ForestSimulator.jar** in the explorer. You will see a mask to do some basic program settings (fig.2):

1. Choose the language you want to work with. The simulator is multi lingual in large parts of the program.
2. Choose if you want the display 3D or 2D. If you choose 3D, Java 3D needs to be installed.
3. Choose the sub directory user. If you press the button search, a selection dialog will open.
4. Select the sub directory with your data. There is data supplied in directory data\_standsimulation.
5. Select the sub directory for your results. Best choose output\_standsimulation.
6. Select the XML file with your growth model settings, like ForestSimulatorSettings.xml. This file is and needs to be located in the directory user.
7. After you finished 1 to 6, press the button „ok and restart program“.

Now you should have no problems to work with the simulator. If you want to see this dialog again and you can not access it by the program, just delete the file **ForestSimulator.ini**.



TreeGroSS Forest Simulator - General Program Settings

Language: Deutsch Stand graphic 3D

Find directory standsimulation\user with file species.txt  
C:\Dokumente und Einstellungen\nagel\Eigene Dateien\ForestSimulator75\user search

set directory for input data  
C:\Dokumente und Einstellungen\nagel\Eigene Dateien\ForestSimulator75\data\_standsimulation search

Set directory for data output  
Dokumente und Einstellungen\nagel\Eigene Dateien\ForestSimulator75\output\_standsimulation search

XML - File in directory \..  
ForestSimulatorSettings.xml search

ok, and restart program

Fig 2.: General program settings.

## Work with the ForestSimulator

To work with the simulator double click file **ForestSimulator.jar** . You will find a help file with an introduction displayed in the menu under help. If you have problems with larger stands, you can start the simulator by a double click on file **ForestSimulator.cmd** which will reserve more memory by the Java virtual machine.

## Deinstallation

To deinstall the program, just delete the whole directory. But be sure that you do not want to keep the data or results.