

# GuidosToolbox Workbench – Installation

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This document provides installation instructions for the image analysis program **GWB** (GuidosToolbox Workbench). GWB is a subset of the desktop application GuidosToolbox (**GTB**) designed as a cmd-line only application for Linux 64bit servers. Download it from the official homepage at: <https://forest.jrc.ec.europa.eu/en/activities/lpa/gwb/>  
To **ensure the package integrity**, compare the md5sum against the [GWB md5sum list](#).

GWB can be used to conduct various image object analysis schemes on your raster data. GWB is completely self-contained and fully functional in its own directory. It can be installed for system-wide usage or used in standalone mode in any directory on your system or any external device, provided **gdal**, **xvfb** and **libgomp1** is installed.

## A) System-wide installation:

GWB can be installed for system-wide usage and made available to all system users. Go to the [GWB-Download](#) section and follow the instructions on an updated current operating system:

- **PLinuxOS:** Open Synaptic and search for/install **GWB**
- **Fedora:** Download the package [GWB-Fedora.x86\\_64.rpm](#) to a local directory. From a root-terminal enter the command: **yum install <full path to the downloaded GWB-Fedora.x86\_64.rpm>**
- **Mageia:** Download the package [GWB-Mageia.x86\\_64.rpm](#) to a local directory. From a root-terminal enter the command: **urpmi <full path to the downloaded GWB-Mageia.x86\_64.rpm>**
- **Suse:** Download the package [GWB-Suse.x86\\_64.rpm](#) to a local directory. From a root-terminal enter the command: **zypper install --allow-unsigned-rpm <full path to the downloaded GWB-Suse.x86\_64.rpm>**
- **Debian/\*buntu:** Download the package [gwb\\_amd64.deb](#) to a local directory. From a root-terminal enter the command: **apt install <full path to the downloaded gwb\_amd64.deb>**
- **Other Linux distributions:** Follow the steps of the standalone installation (see section b). Open a root-terminal in the extracted directory **GWB<version>** and enter the command: **./installGWB.sh** The script will copy the standalone directory GWB under **/opt/** and setup symlinks to each GWB-script in **/usr/bin/**

### Important note:

- CentOS 7 requires the additional installation of **gdal-python**.
- On a Debian/\*buntu system only: to update an existing GWB installation run the following command from a root terminal, or add this script as a cron job: **/opt/GWB/tools/GWBupdate\_deb.sh**

To use GWB in system-wide mode, cd into your **\$HOME** directory and enter the command:

**GWB** to get an overview of the analysis tools provided, or execute any tool directly, i.e.:

**GWB\_SPA -i=\$HOME/input -o=\$HOME/output** to conduct a spatial pattern analysis of the images **\$HOME/input/\*.tif**

## B) Standalone installation (as regular user, not as root!):

a) Download [GWB\\_linux64.run](#) to your **\$HOME** directory, i.e., **/home/peter**

b) Open a terminal (konsole, xterm) in this directory and make the installer executable using the command: **chmod u+x GWB\_linux64.run**

c) Start the installer with the command: **./GWB\_linux64.run** and follow the instructions. The installer creates the new directory **GWB<version>** providing the standalone directory **GWB** and system installation scripts.

d) To use GWB in standalone mode, cd into the directory **GWB<version>/GWB** and enter the command:

**./GWB** to get an overview of the GWB analysis tools, or execute any tool directly, i.e.,

**./GWB\_SPA** to conduct a spatial pattern analysis of the images **\$HOME GWB<version>/GWB/input/\*.tif**

### Note:

Each module will process all tif-images located in the subdirectory **GWB/input** using its specific parameter file. Results are stored in the subdirectory **GWB/output**

More information is available in the file: **GWB/readme.txt**

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