

3d Brain Atlas Reconstructor Installation (Ubuntu)

Note: This procedure is valid for *Ubuntu 9.04*, *Ubuntu 10.04 LTS*, *Ubuntu 10.10* and *Ubuntu 11.04*. Installation on other Ubuntu versions or other Linux distributions is similar but the packages versions may be slightly different.

1. Installing required packages
2. Getting the code

Installing required packages

Installation in Ubuntu 9.10

1. Install the Visualization Toolkit and other graphics libraries:

```
sudo apt-get install \
libvtk5.2 libvtk5-dev libvtk5.2-qt4 libvtk5-qt4-dev \
tk8.5 tk8.5-dev \
python-vtk libgdkgl2.0-1 libgdkgl2.0-dev libgdkglext1 librsvg2-2 python-nifti
```

2. Install python related packages:

```
sudo apt-get install \
python-gtkglext1 python-rsvg python-opengl python-numpy python-scipy python-wxgtk2.6
```

3. Other packages:

```
sudo apt-get install \
potrace pstoeedit python-setuptools python-epydoc
```

If you are a developer you may also want to install optional packages with documentation:

```
sudo apt-get install vtkdata vtk-doc vtk-examples
```

Installation in Ubuntu 10.04

Install the following packages:

```
sudo apt-get install \
libvtk5.2 libvtk5-dev libvtk5.2-qt4 libvtk5-qt4-dev \
tk8.5 tk8.5-dev \
python-vtk libgdkgl2.0-1 libgdkgl2.0-dev libgdkglext1 librsvg2-2 python-nifti
```

```
sudo apt-get install \
python-gtkglext1 python-rsvg python-opengl python-numpy python-scipy python-wxgtk2.6
```

```
sudo apt-get install \
potrace pstoeedit python-setuptools python-epydoc
```

Installation in Ubuntu 10.10 and Ubuntu 11.04

Install the following packages:

```
sudo apt-get install \
```

```
libvtk5.4 libvtk5-dev libvtk5.4-qt4 libvtk5-qt4-dev \
tk8.5 tk8.5-dev \
python-vtk libgltk2.0-1 libgltk2.0-dev libgltk2.0-qt4 libgltk2.0-qt4-dev \
python-nifti

sudo apt-get install \
python-gtkglext1 python-rsvg python-opengl python-numpy python-scipy python-wxgtk2.8

sudo apt-get install \
potrace pstoeedit python-setuptools python-epydoc
```

Getting the code

It is assumed that the main directory dedicated for 3dBAR is `/home/$USERNAME/3dbar`. if you want to install it in another directory, replace `3dbar` with the desired path.

To get the latest stable version of 3dBAR fill out [the following form](#) then download 3dBAR using the link provided via email.

Unzip the file to your home directory and go to the 3dBAR directory:

```
mkdir ~/3dbar; unzip 3dbar_latest.zip -d ~/3dbar ; cd ~/3dbar;
```

The directories have the following purposes:

- **bin**: Holds all executable files, atlas parsers and auxiliary scripts
- **lib**: Holds the 3dBAR api
- **atlases**: Directory, where the source data, *CAF datasets* and reconstructed models are stored. Each dataset (denoted as `DATASET_NAME`) contains the following subdirectories:
 - ◆ `atlases/DATASET_NAME/src` : Here the source data is located. It can be placed manually by a user or downloaded from internet depending on a particular parser.
 - ◆ `atlases/DATASET_NAME/caf` : This is the directory where a CAF dataset is generated by specific parsers.
 - ◆ `atlases/DATASET_NAME/reconstructions` : The directory for reconstructed models.

Then follow instructions from `README` file to verify, if the installation was successful.