

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.

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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.

Installing required packages

Installation in Ubuntu 10.10 and Ubuntu 11.04

1. Install the Visualization Toolkit and other graphics libraries:

```
sudo apt-get install \  
libvtk5.4 libvtk5-dev libvtk5.4-qt4 libvtk5-qt4-dev \  

```

```
tk8.5 tk8.5-dev \  
python-vtk libgtkgl2.0-1 libgtkgl2.0-dev libgtkglext1 librsvg2-2 python-nifti
```

2. Install python related packages:

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

3. Other packages:

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

Installation in Kubuntu 11.10

1. Install the Visualization Toolkit and other graphics libraries:

```
sudo apt-get install \  
libvtk5.6 libvtk5-dev libvtk5.6-qt4 libvtk5-qt4-dev \  
tk8.5 tk8.5-dev \  
python-vtk libgtkgl2.0-1 libgtkgl2.0-dev libgtkglext1 librsvg2-2 python-nifti
```

2. Install python related packages:

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

3. Other packages:

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

Installation in Ubuntu 10.04

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 libgtkgl2.0-1 libgtkgl2.0-dev libgtkglext1 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
```

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 libgtkgl2.0-1 libgtkgl2.0-dev libgtkglext1 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 8.04

Installation consists of following steps (just paste code blocks into terminal it should be fine:

1. Installing Visualization Toolkit and other graphic libraries:

```
sudo apt-get install \  
libvtk5 libvtk5-dev libvtk5-qt4 libvtk5-qt4-dev \  
tk8.5 tk8.5-dev \  
python-vtk libgtkgl2.0-1 libgtkgl2.0-dev libgtkglext1 librsvg2-2 python-nifti
```

2. Installing python-related packages:

```
sudo apt-get install \  
python-gtkglext1 python-opengl python-numpy python-scipy \  
python-gnome2 python-gnome2-desktop python-gnome2-desktop-dev python-gnome2-dev python-wxgtk2.6
```

3. Other packages:

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