TINA installation guide for Linux

TINA runs by using the Wine Windows emulator available for Linux. So prior to using TINA, Wine must be set up. Please visit https://www.winehq.org/ for more information on this.
Be sure to run `winecfg` after installing wine (you will have $HOME/.wine).

Installing TINA
The setup package is provided as tar.gz archive. The installation steps are these:
1. Extract the contents of the archive to any directory you have access to. For example in File manager use the right-click menu and choose "Extract". Or open it by double-clicking and Extract it with an archive manager program. Be sure to extract the package with subdirectories.
2. Navigate to the extracted directory "tinainstaller" and execute the file "setup".
3. The setup program downloads the necessary files and installs TINA under the Wine system.

When the setup is ready, you can launch TINA in the following ways:
- use the Desktop launcher icon, if you chose to create it when the installer asked. On some Linux systems it may be necessary to first activate the icon by right-clicking on it and clicking "Allow launching" in the context menu.
- on Linux systems with the Fly Start Menu you will find a menu for TINA with its main programs and help files, you can click on these.
- there are helper programs for Wine that provide a Start menu similar to Windows. There you will find the start menu of TINA.

Removing TINA
You can uninstall TINA the following ways:
- From Wine or Fly Start menu by clicking on "Uninstall TINA"
- From a terminal window by typing "wine uninstaller" and then selecting TINA from the list and clicking on "Remove". The desktop launcher icon and the optional Fly Start menu must be deleted manually.

Saving the complete TINA installation package
After you have successfully installed TINA, the folder where the installer was extracted contains the additionally downloaded setup files too. You can make an archive of this folder so a complete TINA installer will be available for you later. It is recommended to save this complete folder as the download links may expire after some time.

Using the AI Assistant with GPU support on Linux
Using the AI Assistant with a service that does not require online subscription is possible in TINA. On the first use of AI Assistant instructions are shown by TINA on how to download and install that AI Software (TINA15 uses the software called Ollama). On Linux however additional setup is required to use the GPU accelerated mode that is much faster. It is necessary to download and install both the Windows and the Linux versions of the AI software. The Windows version can be installed in a Terminal window by "`wine xxx`" where xxx is the downloaded installer file. After successfully running this, TINA will be able to use it and download the necessary AI models for it. However in our experience it only provides CPU based slower processing. To achieve the full power of your GPU enabled PC you have to install the native Linux version of the AI software too. The instructions for this are on the same website that TINA showed. After successful setup you should see a note if it found a suitable GPU or not. A reboot of the system may be necessary, and also updating your Linux system and driver software to the latest version may help if there are problems. For Nvidia products you can check the actual utilization of the GPU with the command "`nividia-smi`" or "`nividia-smi --loop=1`" while running a query in the AI Assistant. It may also be necessary to add the used model manually to this Linux AI software with a command if it was not done automatically.

Known issues:

With some versions of Wine the 3D Viewer in TINA is not working. Upgrading Wine to the latest version or modifying Wine system settings regarding OpenGL may help. There's a program called "Winetricks" that may especially be helpful. We also found that newer Linux distributions work better than older.