Installing $A \rightarrow Z + T$

TL;DR

You need Python 3+ and *one* dependency (PyAudio) to run $A\rightarrow Z+T$. Download this repository, and run main.py.

Python

If you need to install Python, you can find it here.

Note: your python 3 + executable may be called python or python3. Be sure to use the correct form for your system when following the instructions below.

Error Tracking

If you have *any* trouble with anything on this page, please copy all error messages and paste them into an Email to me and/or Google.

If you click on an icon and get a flash and nothing more, you may need to run python from a command terminal ($_{\square}$ win+R then type 'cmd' in Windows) to see what errors are keeping it from running.

Dependencies

- PyAudio: run python -m pip install pyaudio to install.
 - On Linux (and Mac?), pyaudio may in turn have a dependency of portaudio19-dev, which you should install with your package manager (e.g., sudo apt-get install portaudio19-dev).

Optional dependency: PIL/Pillow

This install allows for visual rendering of tone glyphs that aren't currently working in tkinter:

python -m pip install --upgrade pip (if your pip hasn't been upgraded recently)
python -m pip install --upgrade Pillow

If you have any problem installing this, it is not a problem for using AZT —you will simply see tone marks badly ligatured, like (1144111) instead of like (14411).

Installation on Microsoft Windows

For some reason, I have had trouble getting pyaudio installed on Windows machines with most recent versions of Python (3.9). You may have better mileage than I. In any case, I have found that it works smoothly to

- Download and install Python 3.6.8 (e.g., from here).
 - Be sure to check "add to PATH" (or whatever options are appropriate), so Windows knows where Python is installed.
 - If you have more than one version of python installed (e.g. 2.7 and 3.6.8), be sure to know how to run version 3 for this program.
- Then, to install the pyaudio dependency, open a terminal (e.g., win+R then type 'cmd') and run
 - python -m pip install pyaudio
- Alternatively (instead of the above two steps), it may work to do the following:
 - python -m pip install pipwin
 - pipwin install pyaudio

XLingPaper and the XMLmind XML Editor (XXE)

To make full use of $A \rightarrow Z + T$'s report output, I strongly advise you to be ready to use XLingPaper, if you are not already. It can be downloaded here; this page also includes information on downloading the XMLmind XML Editor (XXE), which is critical to most uses of XLingPaper.

$A \rightarrow Z + T$

To get the program:

- git clone https://github.com/kent-rasmussen/azt.git
 - You may need to install Git (e.g. here or here) first, or
- · click on the green code button on the main page for download options.

If you download an archive (e.g., zip file), extract it so you have a folder of files. Either way, put it somewhere sensible, so you can find it later. If you use git clone, you can update in the future with git pull, and just download the changes since you last updated.

To run: Assuming your system is configured correctly, just run main.py. Depending on your system, that may be just a click on the file (or a link to it on your desktop or wherever), or you may need to type that into a terminal. Your operating system should know to open main.py with python, but you can also explicitly tell it to with python main.py.

For usage information, see USAGE