**Install Guide for P2FA**

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| 1. Install **Xcode** | Download from App store, and run Xcode to completely install |
| 2. Install **XQuartz** (x11) | Try to install X11 via <http://www.xquartz.org/>  cf. XQuartz (formerly and often still informally referred to as **X11**.app) is Apple Inc.'s version of the **X server**, a component of the X Window System, for Mac OS X. The X Window System is a standard framework for creating applications with a GUI (graphical user interface) on Unix-like operating systems. |
| 3. Set path in X11  In Terminal: | **Set the correct path** to the X11 library for the compiler with:  export CPPFLAGS=-I/opt/X11/include  cf. If the above command doesn’t work type as below:  ln -s /opt/X11/include/X11/usr/local/include/X11 |
| 4.Download **HTK**  (ver. 3.4.0 tar.gz) | Download/decompress HTK ver. 3.4.0 tar.gz version  (otherwise, it won't install) |
| 5.Modify **configure**  (without extension) in HTK | Just add the following 4 lines:  **i386)**  **host=darwin**  **trad\_bin\_dir=$host**  **;;**  (**between** case "$host\_cpu” in **and** powerpc) |
| 6. Modify  **HTKLib/strarr.c** in HTK | Replace line 21 (#include <malloc.h>) of HTKLib/strarr.c  as follows:  **#include <malloc/malloc.h>** |
| 7. In Terminal  (cd to htk folder): | **./configure**  **make all**  **make install**  cf. If above commands doesn’t work, type as :  sudo ./configure  sudo make all  sudo make install |
| 8. Download **p2fa** | Download and test p2fa.  In Terminal (cd to p2fa folder)  **python align.py ./test/BREY00538.wav ./test/BREY00538.txt ./test/BREY00538.TextGrid** |
| 9. Download **SoX 13.0.0**  (Ver. above 13.0.0 doesn’t work properly with p2fa)  \*\* Installing sox is totally optional | - Download SoX    - Place **sox 13.0.0** (binary) in **usr/local/bin**, in which HTK functions are installed. |
| * Troubleshooting | * If resampling doesn’t work on SoX, then go to **Praat** and Convert → Resample it to 11025. * You can use **ForcedAlign.m** (matlab function) on Google Drive, then you don’t need to install sox. |

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