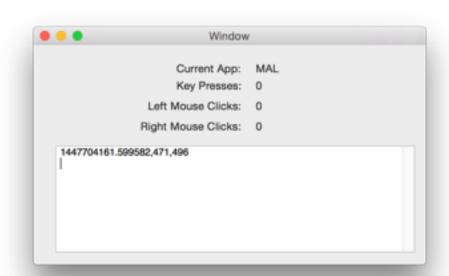
# MAL (Mac Application Logger)

Yuuki NIHIYAMA 2015/11/16

# What is MAL.app?

- MAL.app is an application logger for Mac OS X.
- This application can detect following actions:
  - Current using application
  - Mouse and keyboard actions
  - PC's active state (ON/OFF)
- Also, each detected actions are saved as CSV file at the home directory

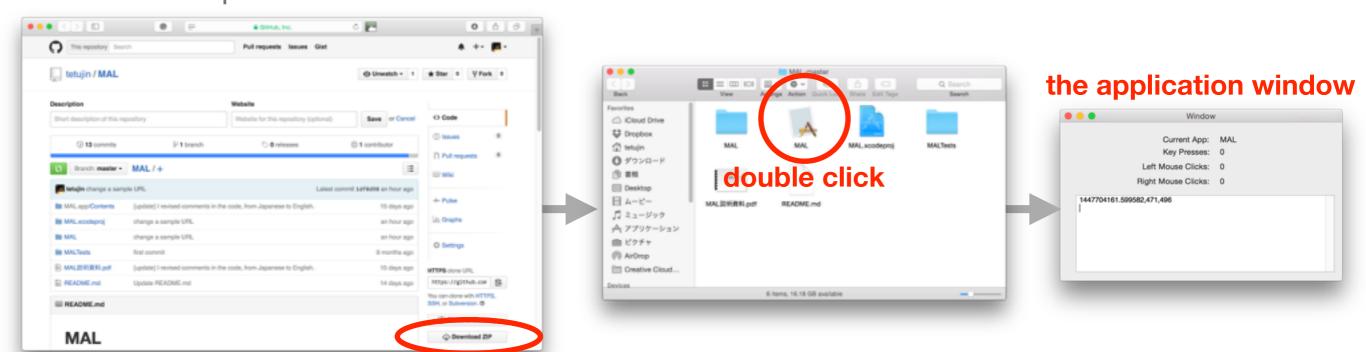


```
1. tall

yuukis-MBP:~ tetujin$ tail -f mal-app.csv
1447706615.541228,iTerm
1447706616.541812,Finder
1447706849.578031,Google Chrome
1447706851.543686,Finder
1447706853.542576,Google Chrome
1447706854.551458,Dictionary
1447706854.551458,Dictionary
1447706874.543299,Finder
1447706909.544547,Keynote
1447706947.544081,iTerm
```

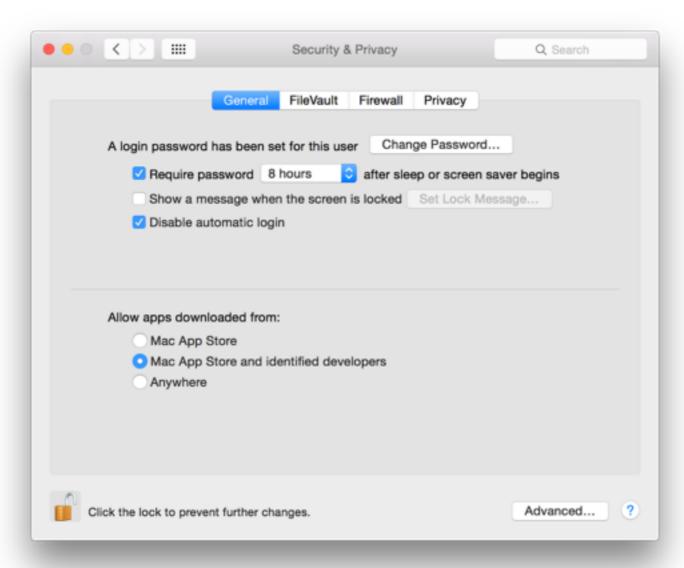
#### **Quick Start**

- 1. Download the application from GitHub (https://github.com/tetujin/MAL)
- 2. Start MAL.app by double click
- 3. An application window will be appeared
- 4. Complete !!



# [NOTE] Application Certification

- If the window is appeared, you should check a security setting in your Mac
  - System Preferences → Security&Privacy → General



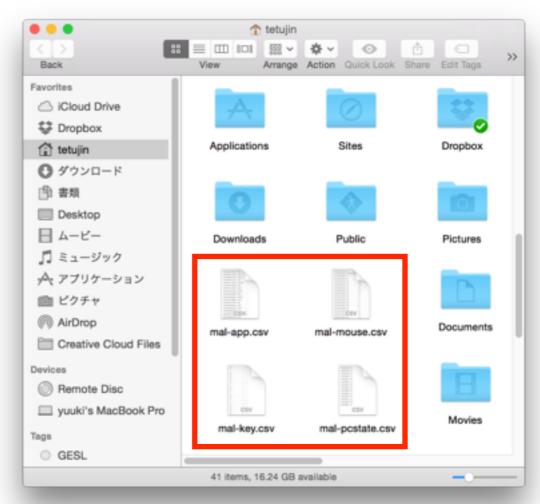
# [NOTE] Certify the keyboard API

- Permit an access to the keyboard API
  - System Preferences → Security&Privacy → Privacy → Accessibility → "Check MAL.zpp"
- Reboot MAL.app



# Log files

- Each application log will be saved as a CSV file at the home directory
- Four types of log file
  - Application → ~/mal-app.csv
  - Mouse → ~/mal-mouse.csv
  - Keyboard → ~/mal.key.csv
  - Screen state → ~/mal-pcstate.csv



#### Checking the log files in the realtime

- Each log files can be checked by a following command, in the realtime.
  - tail -f ~/mal-app.csv

```
tail bash bash

yuukis-MBP:~ tetujin$ tail -f mal-app.csv
1447706615.541228,iTerm
1447706616.541812,Finder
1447706849.578031,Google Chrome
1447706851.543686,Finder
1447706854.551458,Dictionary
1447706858.542836,Keynote
1447706874.543299,Finder
1447706909.544547,Keynote
1447706947.544081,iTerm
```

# Links

- GitHub
  - https://github.com/tetujin/MAL