

Practice read/write musical score using LilyPond

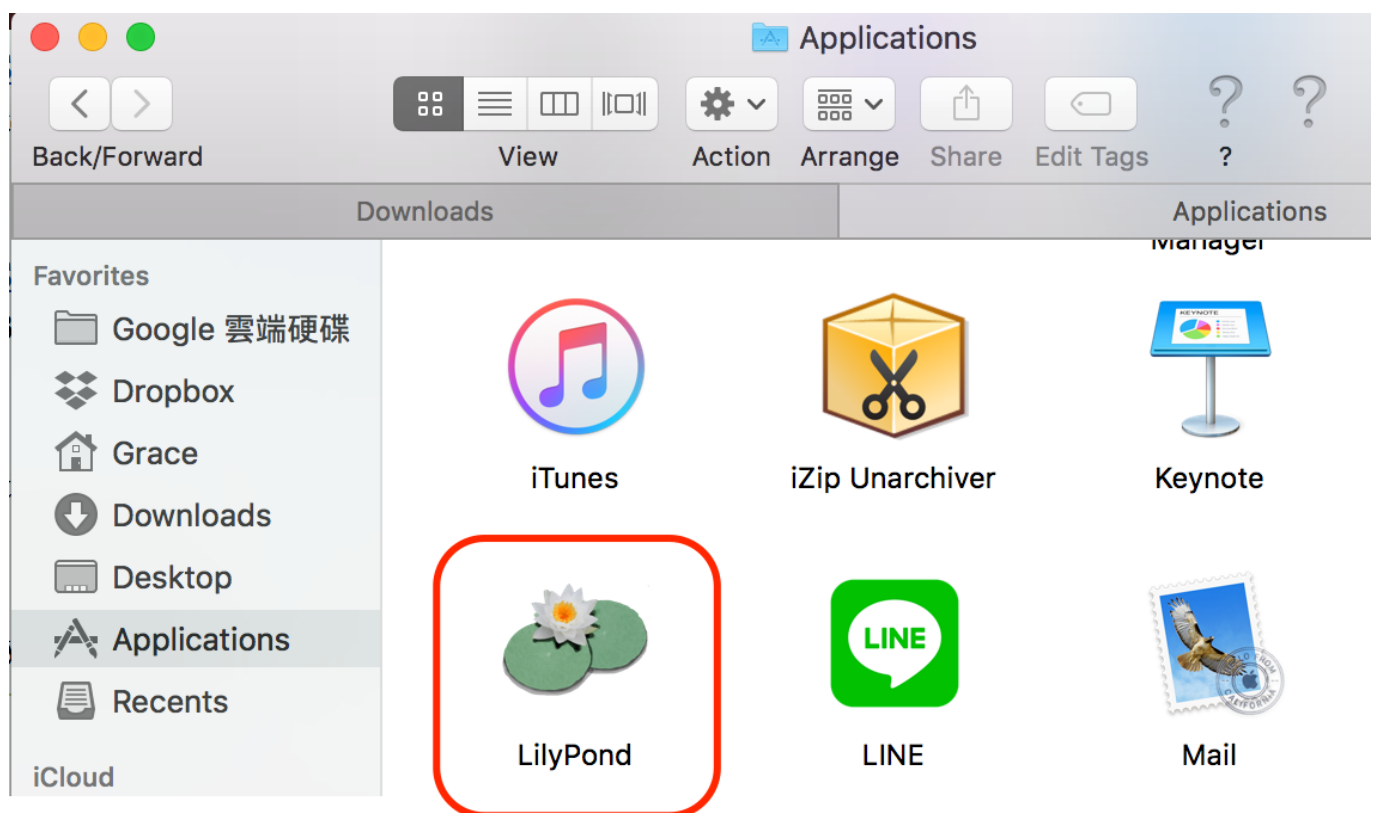
What is Lilypond?

Open source and a text-based programming language, which is used for music engraving. Just like the LaTeX-version in music. (c.f. [Wiki](#))

How to use LilyPond?

Step 1. Download Lilypond on MacOS-X

- Go to the [official website](#) to download LilyPond, which is version 2.18.2-1 on July 8, 2018. Then, moves the program to the folder /Application, just like the following screenshot.



- Open terminal to write the script to call the LilyPond

```
[GracedeMacBook-Pro-2:bin Grace$ pwd
/Users/Grace/bin ← PATH
[GracedeMacBook-Pro-2:bin Grace$ chmod 777 lilypond
[GracedeMacBook-Pro-2:bin Grace$ cat lilypond
#!/bin/bash
exec /Applications/LilyPond.app/Contents/Resources/bin/lilypond "$@"
GracedeMacBook-Pro-2:bin Grace$
```

改成執行檔

script.檔案內容

- Write a testing LilyPond file called original.ly

```
GraceMacBook-Pro-2:MusicScore Grace$ cat original.ly
\header{
  title = "A sacle in LilyPond"
}

\relative{
  c d e f g a b c
}
```

- Execute above file

script to call lilypond



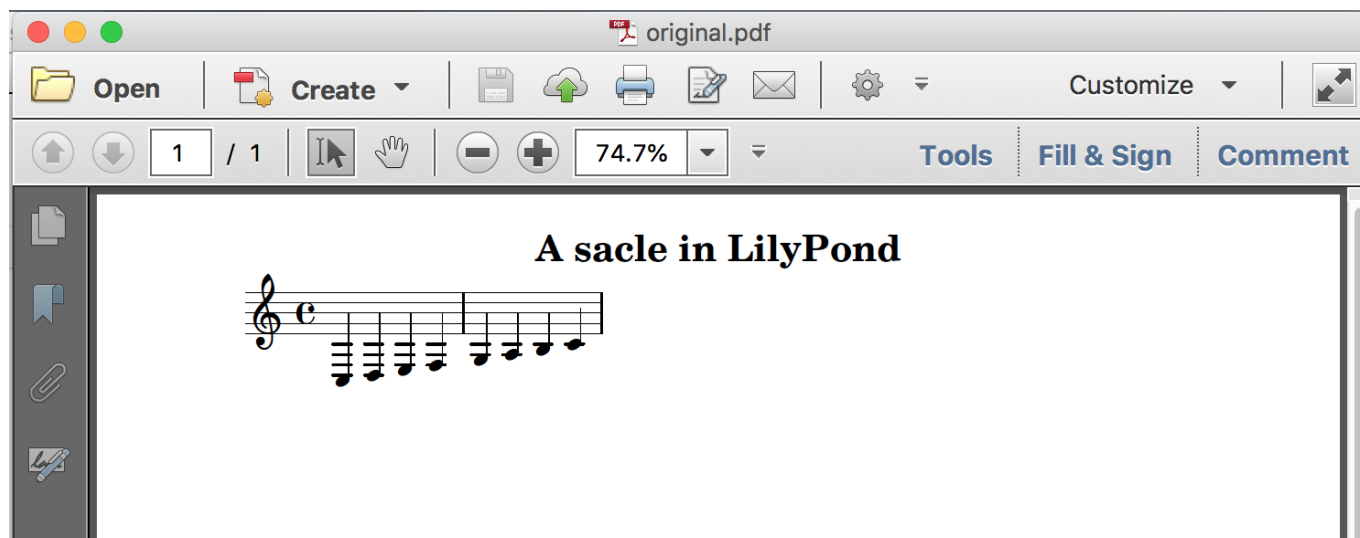
```
GraceMacBook-Pro-2:MusicScore Grace$ lilypond original.ly
GNU LilyPond 2.18.2
`original.ly' を処理しています
構文解析中...
Interpreting music...
Preprocessing graphical objects...
Finding the ideal number of pages...
Fitting music on 1 page...
Drawing systems...
Layout output to `original.ps'...
Converting to `./original.pdf'...
Success: compilation successfully completed
```

filename

執行画面



- Finally, we can get the PDF file



Step 2. Using VScode to write music score

Follow the tutorial [blog](#), I download the plug-in

- [LilyPond syntax highlighting](#)

I didn't follow all the instructions, for downloading the [PDF viewing](#) and write the configuration of task. First, I use LaTeX plug-in which already has the function to open PDF file in VScode. Second, I tried to write the configuration file of task, and use **Cmd+Shift+B** to compile the test LilyPond file. But this workflow is not effective for me, because I can just type

```
: lilypond *.ly
```

in the terminal block in VScode. Following is the screenshot for demonstration.

1. Source code of lilypond

```
Mononoke_hime.ly
1 \version "2.18.2"
2 \header {
3   }
4   }
5   }
6   }
7   % 古箏定弦
8   \new ChoirStaff <<
9   \new Staff {
10    \tempo "古箏定弦"
11    \omit Score.BarLine
12    % \omit 1:time
13    \repeat unfold 3 { s1 }
14    % c d
15    ees'4 g' aes'
16    c'1 d'1 ees'1 g'1 aes'1
17    c'1
18  }
19
20 \new Staff {
21   \clef bass
22   \omit Score.BarLine
23   % \omit 1:time
24   c,4 d, ees, g, aes,
25   c d ees g aes
26   c'1 d'1
27   \repeat unfold 9 { s4 }
28 }
29
30 >>
31 \layout {
32 }
33 }
34
35 %
36
37 <<
38
39 >>
40 \new Staff <<
41 \set Staff.instrumentName = #"Violin"
42 \relative c {
43   %setting=
44   %1=d=
45   \break %5-8=
46   \break %9-12=
47   \break %13-16=
48   \break %17-20=
49   \break %21-24=
50   \break %25-28=
51 }
52
53 \layout {
54 }
55 }
56
57 %
58
59 <<
60
61 >>
```

2. Terminal block
just compile lilypond source code in this area

```
GracideMacBook-Pro-2:MusicScore_Mononoke_Hime Grace$ lilypond Mononoke_hime.ly
GNU LilyPond 2.18.2
Processing 'Mononoke_hime.ly'
Parsing...
Interpreting music...
Preprocessing graphical objects...
Interpreting music...[8][16][24][32][40][48][56][64][72]
Preprocessing graphical objects...
Finding the ideal number of pages...
Fitting music on 3 or 4 pages...
Drawing systems...
Layout output to 'Mononoke_hime.ps'...
Converting to 'Mononoke_hime.pdf'...
Success: compilation successfully completed
GracideMacBook-Pro-2:MusicScore_Mononoke_Hime Grace$
```

3. View the PDF file

Mononoke_hime.pdf

もののけ姫
Violin and GuZheng
Composer: 久石譲

古箏定弦

Violin

GuZheng

1: bash

Reference

1. [もののけひめ](#)
2. [Music IDE: Lilypond in VScode](#)
3. [Official Website of LilyPond](#)