

Changelog

2021-11-08

- Improved handling of piano pedals in MIDI keyboard playing mode, now supports three different types of piano pedals in MIDI CC64, CC66, CC67.
- Add the function of displaying another color when the note played is released when the piano pedal is depressed.
- Changing the way the notes are playing to the end to fade out, which improves the listening experience when playing the notes.

2021-11-07

- Added the display of border of note bar and piano keyboard, which makes the demonstration effect more elegant, the border width and border color could be adjusted in the config file.

2021-11-01

- If you are using SoundFont to play, you can change the instruments by changing preset number and bank number when playing using the combination of keys (when config key is `Alt` by default):

`Alt + 1` (previous preset)

`Alt + 2` (next preset)

`Alt + 3` (previous bank)

`Alt + 4` (next bank)

2021-10-31

- Now you can load SoundFont files to play MIDI files, in the config file, please set `use_soundfont` to True, `play_as_midi` to True, and then set the file path of SoundFont files using `sf2_path`.

If you are not using SoundFont files to play MIDI files, the pause functionality will not work, because pygame currently does not support pausing MIDI files.

If you are using SoundFont files, Ideal Piano will render the MIDI files to audio data internally using [sf2_loader](#), then use pygame to play, therefore you can pause it.

Now you can also use SoundFont files to play using computer keyboard or MIDI keyboard, in the config file, please set `play_use_soundfont_file` to True, you can customize choosing the instruments in the SoundFont files and the playing note's duration, volume using a series of parameters such as `bank_num`, `preset_num`.

- Use `Alt + S` to open the change settings window, use `Alt + R` to reload the changed settings (when config key is `Alt` by default). If you press the `save` button on the change settings window or press `Ctrl + S` to save the settings, the settings will automatically reload after you close the change settings window.

2021-10-28

- Improved compatibility with Linux, now works fine on Ubuntu 18.04.5 in a virtual machine. I will try to find time to adapt it to macOS in the next few months.

2020-12-27

- Added a way to view the current midi device connection of your computer in midi keyboard mode, and to see which id corresponds to the name of your instrument if your midi keyboard's midi_device_id is not connected. And it will show you the error message (the specific reason why you can't connect). After clicking the button to enter the midi keyboard mode, press the shift key on the computer keyboard to display the id of the current computer default midi device, and the names of the midi devices with ids 0 to 9 respectively, one of which should be your instrument. Then if your midi keyboard is not connected, a specific error message will also be listed at the end of the display. You can turn off the display by pressing the ctrl key.
- Now I have also improved the code logic of the software for midi piano reading a lot, now there is no need to open the midi keyboard first and then open the software, you can open the software first and then connect the midi keyboard and open the midi keyboard and then click the midi keyboard mode button to identify the midi keyboard (in the case that the midi_device_id is on your (in the case of the instrument), turn off the midi keyboard in the middle, then open it again and click the back button and then re-enter the midi keyboard mode, the software will re-identify the midi keyboard, then you can continue to play (before you need to re-open the software once again, now you do not need to)

2020-08-20

- Redesigned the piano structure, before it was a whole piano picture on the screen, now it adds the draw piano mode, set draw_piano_keys to True in the settings file to enter this mode. In draw_piano mode, the corresponding keys will light up when the midi keyboard is playing or the computer keyboard is playing, including when the midi file is played in drop note mode, the notes will also light up when they fall on the keys. The piano is drawn using black and white keys that directly follow the structure of the piano's 88 keys, according to settable parameters, and each key can change color.
Underneath the drawing of the 88 keys there is a black background image, which is mainly used to show the gaps between the piano keys (for filling). Instructions for setting the parameters of the piano keyboard drawing will be written in the manual for setting the parameters. You can turn off the note mode (note_mode is set to a value other than dots, bars, bars drop) and just turn on the piano drawing mode, the corresponding piano keys will light up when you play, and the current note will light up when you play the midi file. It is also possible to use any of the note modes and turn on Draw Piano mode.

2020-08-17

- Added a mode to play directly as a midi file audio source, set play_as_midi to True in the settings file to enter this mode. When you select merge all tracks, the notes of all tracks will be merged for demo, and the sound is played directly from the midi file inside the software. If one of the tracks is selected, the selected track is temporarily written to a midi file and then played.
- The program to modify the settings adds buttons to input Boolean values (True, False) directly by clicking on them, making it easy to modify the parameters of the Boolean values.

2020-08-13

- Added note bar (drop) mode, available only in the mode of playing midi files, to use note bar (drop) mode, just set the value of parameter note_mode to 'bars drop'.
- If the parameter sort_invisible is set to True, the sorted content of the chord will not be displayed if the chord is of sort type, only the chord name will be displayed.

2020-08-12

- Real-time chord analysis algorithm adds poly_chord_first parameter, which is a compound chord mode, so that when the chord is very complex and the time needed to judge it will

cause a lag, the chord can be split into two chords and judged in the form of a compound chord (or a chord with a lowest note under it), which can greatly improve the efficiency of chord judging, especially for This mode is especially suitable for jazz music.

- The parameter `get_off_drums` has been added to play midi files with the option to remove the drum tracks from the midi file. Set it to True to remove the drum tracks when reading the midi file to avoid being disturbed by the drum tracks when analyzing the chords in real time.

2020-08-11

- Added the option to merge all tracks when playing a midi file.
- Fixed the bug that the file path of the background image and piano image sometimes could not be found.
- Added the parameter `show_chord` that allows you to choose whether to display chords in real-time analysis.

2020-08-10

- Newly made a program to change the setting parameters, with a search bar function, so you can quickly find the parameters to change.
- I wrote a software parameter manual, explaining the meaning of each parameter, so that you can modify it easily.
- The original default font, Comic Sans MS, was not very formal, so I changed the default font to Cambria, a very neat and formal English font, changed the default font size from 20 to 23, and made the button size bigger (the new parameter `button_resize_num` was added, which is a scaling factor for the button size) Because the original button size feels a bit small.
- Newly added the option to merge all the tracks of a midi file and play it when playing a midi file.
- P.S. I believe that Cambria is the official font that most people recognize, but if not, you can change it to the font you want in the settings file.

2020-08-09

- Note bar mode has been added. Previously, only the note points were displayed on the piano keys, but this time the note bar mode is a bit more appreciated. The notes appear and rise from the keys, both when playing on your own and when playing midi files. If you press and hold, the note bar will keep elongating, and when you release it, the note bar will float upwards. When playing a midi file, the relative length of the notes is calculated directly from the length of each note. And the strength of the notes corresponds to the transparency of the notes, (this function can be set in the corresponding parameters in the settings file on or off) and then you can also choose to appear monochrome or random arbitrary color, the effect is still good. Now the mode of the note bar (bars) exists as two modes together with the previous note dots (dots), you can set which mode you want in the settings file. The position where the notes appear, the length and width of the notes, the number of steps the notes go up each time (how many pixels they go), the color of the notes, single color display or random color display, the default transparency of the notes, the speed at which the notes elongate, etc. can all be set in `config.py`.
- I'm going to make all the parameters in `config.py` into `change_settings.py`, so that all these parameters can be modified.

2020-08-08

- The default chord display alignment mode has been updated to left-aligned, replacing the original centered display, which is more comfortable to look at and avoids the situation where the chord name length keeps changing in real time analysis, which makes it hard for the eyes to keep up.

- Since my software is in English, I made a Chinese patch package, which includes: the buttons of the interface, the names of the displayed chord types, (the original chords will keep the other English names, the first one is the Chinese name), the monophonic and interval, the interface for selecting midi files and each setting item. The procedure for changing the settings. The download link for the Chinese patch installer is in README.