CSC4001 Software Engineering

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Welcome to Musier: User Manual for an Automatic Melody Generator

1. Meet Musier

Musier is a composing tool providing the amateurs with the chances to compose pieces of melody. The software can compose music automatically under user’s inspiration in form of professional music representation or under intuitive user-friendly representation. This following parts exhibit detailed instruction on the software.

1. Quick start:
   1. Access [www.musier.net/app/](http://www.musier.net/app/) to web-app music generator.

(Currently the app is offline. It will be online when it is public released. Local deployment tutorial is at the end of this manual.)

* 1. Click “Have a try” button to access the generator.
  2. Optional: Input a melody inspiration in the text box with input prompt. Number 1~7 just accord to do, re, mi, fa, so, la, ti.
  3. Click “Click Here To Go” to start automatic composing.
  4. Wait for a moment when the button shows “Loading”.
  5. When the sheet is shown, click the Play button ![图片包含 播放按钮
     已生成高可信度的说明](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAABoAAAAYCAYAAADkgu3FAAAAAXNSR0IArs4c6QAAAARnQU1BAACxjwv8YQUAAAAJcEhZcwAADsMAAA7DAcdvqGQAAAChSURBVEhLY3BycvpPDzxqEdl4hFq0/saX/y+vbv0/KT8SqzwxmGiLvnwB4Xf/7x5f8r8xGrs6fJhEi6D448v/1zf3/k/BohYXJs8iGH55/f+BpY3/I7HoQceUWQTF7+6d+b++LwWrXhimikUwDEowvWnYzRhaFr27d+z/yjZaBh0wMeyeS8vEQPvkTYcMiy+iicFEWUQNPGoR2Xi4WeT0HwC0J/AXgX+5ewAAAABJRU5ErkJggg==) to hear the music composed.
  6. Optional: Type a title in the “Title” text box.
  7. Click “Download MIDI for *“Title you just typed”*” to download the music file.
  8. Click “Save Sheet” button to download the music sheet.
  9. Click “New Sheet” to start a new music composing.
  10. Move the mouse to the top of the page and click “HOME” to the home page.

1. Basic musical options:
   1. Scale type:

The [scale](https://en.wikipedia.org/wiki/Scale_(music)) type of a music, alternatives in Major or Minor and other types, is a set of notes ordered by pitch forming the basis of the music composition. This software is adapted for major scale and minor scale which are most commonly used scale types in pop music. Major scale music comparably is more bright and minor scale music is darker. Users can choose the scale type in the scale type list.

* 1. Meter:

The [meter](https://en.wikipedia.org/wiki/Metre_(music)) of a music refers to the regularly recurring patterns and accents such as [bars](https://en.wikipedia.org/wiki/Bar_(music)) and [beats](https://en.wikipedia.org/wiki/Beat_(music)). This software is adapted for quadruple meter with time signature 4/4 and triple meter with time signature 3/4. Users can choose the meter in the meter list.

* 1. Numerical musical notation

To input user’s inspiration of the composing, user can type numerical musical notation in the text box. Number 1~7 accords to the solfege “Do, Re, Mi, Fa, So, La, Ti” in major scale or “Do, Re, Me, Fa, So, Le, Te” in minor scale. Users can rise or drop the octave of a note by typing W or S and shorten or extend the duration of a note in unit of half beat.

1. Advanced musical options:

By checking the checkbox below the ABC notion text box, user can fully edit the music sheet with ABC notions. An example is shown below, and user can check a full tutorial of ABC notion [here](http://abcnotation.com/blog/2009/12/23/how-to-get-started-with-abc-notation/).

X:1

T:Paddy O'Rafferty

C:Trad.

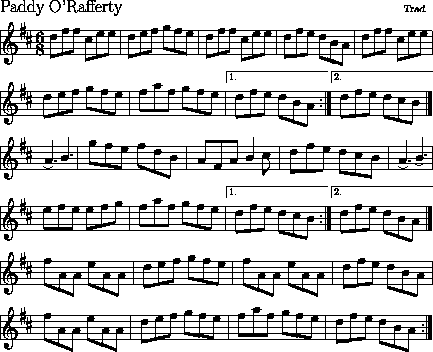
M:6/8

K:D

dff cee|def gfe|dff cee|dfe dBA|dff cee|def gfe|faf gfe|1 dfe dBA:|2 dfe dcB|]

~A3 B3|gfe fdB|AFA B2c|dfe dcB|~A3 ~B3|efe efg|faf gfe|1 dfe dcB:|2 dfe dBA|]

fAA eAA|def gfe|fAA eAA|dfe dBA|fAA eAA|def gfe|faf gfe|dfe dBA:|



1. Deployment

For user who wants to deploy the web app in local machine, steps are shown following.

1. git clone <https://github.com/yippp/Musier.git>
2. install python 3 [here](https://www.python.org/)
3. run command `pip install django`
4. go to directory “/Musier/MusierWeb/”
5. run command `python manang.py runserver`
6. Open <http://127.0.0.1:8000/app> in the browser Google Chrome
7. Contact

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