folkRNN

generate a folk tune with a recurrent neural network

folkrnn.org

folkRNN
generate a folk tune with a recurrent neural network

PRESS TO GENERATE TUNE
Compose

MODEL
thesession.org (w/ :|

TEMPERATURE 1 | SEED 251008

METER 4/4 | MODE C Major

INITIAL ABC
c B A G A 2 B 2

enter the folkRNN composition competition

FOLK RNN TUNE №1066

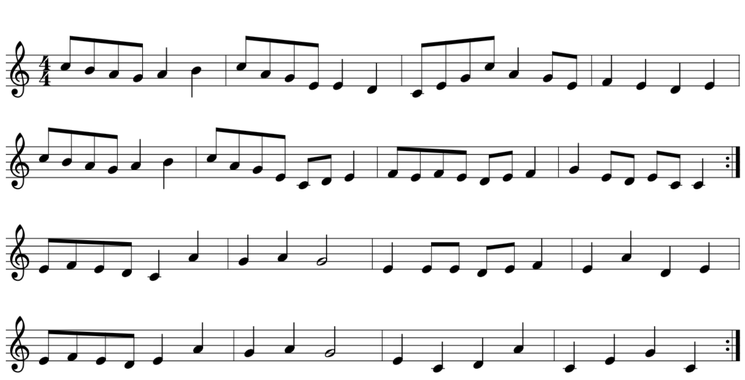
```
X:1066
M:4/4
K:Cmaj
cBAG A2B2|cAGE E2D2|CEGc A2GE|F2E2 D2E2|
cBAG A2B2|cAGE CDE2|FEFE DEF2|G2ED ECC2:|
EFED C2A2|G2A2 G4|E2EE DEF2|E2A2 D2E2|
EFED E2A2|G2A2 G4|E2C2 D2A2|C2E2 G2C2:|
```

*The RNN properties were **thesession_with_repeats** with seed **251008** and temperature **1**.*
*The prime tokens were **M:4/4 K:Cmaj c B A G A 2 B 2**.*
*Generated on **22/05/2018, 19:25:45**.*

HEAR IT

0:00 | TEMPO 120 | Download MIDI

SEE IT



SAVE IT

Folk RNN Tune №1066 | Archive | Remove

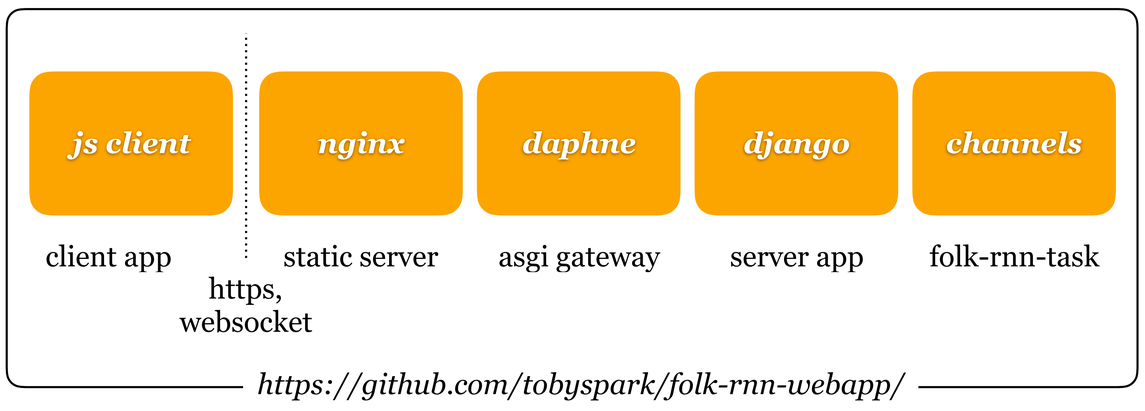
The Machine Folk Session is a community website dedicated to folk music generated by, or co-created with, machines. Give your generated tune a title, hit 'Archive', and it will become part of the collection there. You'll be taken to its page on the machine folk session site, where you can hand-craft settings of the tune and discuss it with others.

CREDITS

folk-rnn is a project funded by the UK Arts and Humanities Research Council, grant no. AH/R004706/1: "Engaging three user communities with applications and outcomes of computational music creativity". The generated tunes and the patterns of use that generated them may be used for research purposes, such as this grant.

The original folk-rnn project page, where the algorithm and models were developed, is here: https://github.com/IraKorshunova/folk-rnn. It links to several compositions created by folk-rnn that have been performed live, analysed and so on.

Web application by Toby Harris. Please report any issues here.



themachinefolksession.org

THE machine folk SESSION

enter the folkRNN composition competition

TUNES | RECORDINGS | EVENTS

community: log in or sign up; submit a tune; tune of the month. Help

Hello World

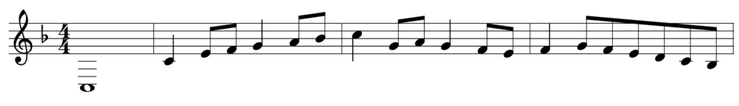
The Machine Folk Session is a community website dedicated to folk music generated by, or co-created with, machines.

You can find tunes to play, recordings of them, or events where they're played.

machine folk, live

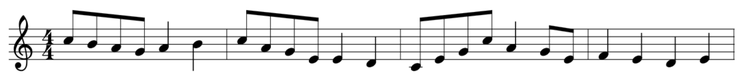
Popular tunes

Bastard Tunes – fourth movement



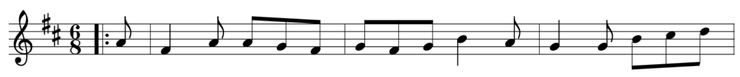
Original tune submitted May 18, 2018. Has been recorded once. Performed at two events.

Folk RNN Tune №1066



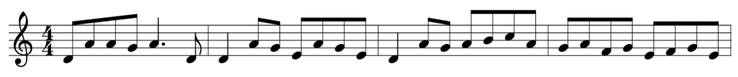
Tune submitted from folkrnn.org May 22, 2018. In one tunebook.

Farewell To Feirian



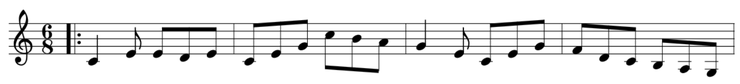
Original tune submitted July 31, 2018. One contributed setting.

folk-rnn (v2) 196



Original tune submitted July 4, 2018. In one tunebook. Has been recorded once. Performed at one event.

Pour me another jar of that artificial intelligence



Tune submitted from folkrnn.org July 31, 2018. One contributed setting. One comment.

About

The Machine Folk Session is a project funded by the UK Arts and Humanities Research Council, grant no. AH/R004706/1: "Engaging three user communities with applications and outcomes of computational music creativity". See also: folk-rnn, where you can generate folk tunes with a recurrent neural network.

Web applications by Toby Harris. Please report any issues here.

1 **https://folkrnn.org** – live since March 2018
A web-based implementation of a generative machine learning model trained on transcriptions of folk music from Ireland and the UK.

2 **https://themachinefolksession.org** – live since June 2018
An online repository of work created by, or co-created with, machines.

These two websites provides a way for the public to engage with some of the outcomes of our research investigating the application of machine learning to music practice, as well as the evaluation of machine learning applied in such contexts. Our machine learning model is built around a text-based vocabulary, which provides a very compact but expressive representation of melody-focused music. The specific kind of model we use consists of three hidden layers of long short-term memory (LSTM) units. We trained this model on over 23,000 transcriptions crowd-sourced from an online community devoted to these kinds of folk music (http://thesession.org). Several compositions created with our application have been performed so far, and recorded and posted online. We have also organised a composition competition using our web-based implementation, the winning piece of which will be performed at the 2018 O'Reilly AI conference in London in October.

This work is funded by the UK Arts and Humanities Research Council, grant no. AH/R004706/1: "Engaging three user communities with applications and outcomes of computational music creativity".

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