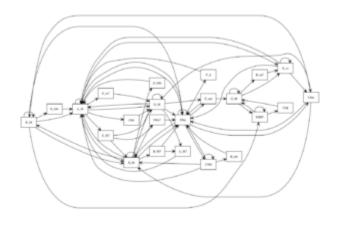# G B

Bach Choral Harmony Network Diagrams

2018-09-16 BY GENE

Today I decided to revisit the [Bach Choral Harmony data set](#) and look at chord progression transitions.

In order to do this I wrote a small program that tallies the movement from one chord to another, and then outputs a Graphviz dot file that can be turned into an image.

The code for this is [on github](#). It accepts an identifier for a song (as given by the UCI dataset) to diagram. The association between UCI ids and Bach BWV numbers can be looked-up in this file: [titles.txt](#)

The shown song diagram is for BWV 17.7 "Nun lob, mein Seel, den Herren." For reference, here is the MIDI file: [BWV-17.7.mid](#) and here is the transcription: [BWV-17.7.pdf](#) (Also, I have rendered the transitions of this piece, as a meditation, to audio [on youtube](#).)

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UPDATE: I have made a web GUI for displaying these diagrams for the chorales at UCI – https://github.com/ology/Bach-Chorales – Woo!

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UPDATE: I have made a module to compartmentalize the parsing of the UCI Bach data set at Music::BachChoralHarmony.

FILED UNDER: DATA, MUSIC
TAGGED WITH: BACH, CHORALE, PERL

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