

FAKE

For piano and computer (Max, Antescofo)
FERGAL DOWLING, DUBLIN, 2021

TECHNICAL REQUIREMENTS

Overview

Title: FAKE
Forces: piano and computer
Composer: Fergal Dowling
Date: 2021
Duration: 6'48"
Performing rights: IMRO (Irish Music Rights Organisation)

Single movement for piano and responsive computer-based audio interaction. The live piano performance is followed in real-time by a computer patch which replays samples and spatialises output. The piano sound is captured and directed to a MaxMSP patch. The patch uses Antescofo score following to trigger sample replay, effects and spatialisation. A computer operator is not necessary as the score following works automatically. The patch only needs to be launched and set to start score following. The piano sound should be captured using a normal close microphone technique. Spatialisation can be altered within the patch (output_matrix) to accommodate stereo, quad or eight-channel playback. The player can begin once the patch has started score following and should continue without interruption; changes in tempo are automatically followed by the patch.

Equipment

Computer	MacBook Pro, or Mac Pro or similar, OS X 10.11.x, or greater, 8GB RAM or greater, MaxMSP 8.x, or greater, installed.
Microphones	Good quality condenser microphones (e.g. DPA 4099, 4006A, or similar).
Soundcard	RME Fireface, MOTU 828, or similar, with 8 channel output.
Mixing desk	With mic preamp, 2–8 x sends to soundcard, 2–8 x returns from soundcard.
Loudspeakers	2–8 x full-range powered monitors mounted on stands and arranged in stereo or circle surrounding performance space. The loudspeakers should be able to reproduce a sound similar in colour and volume to the piano.
Cables	1 x mic cables, 2–8 x patch cable (mixer to soundcard), 2–8 x patch cables (soundcard to mixer).
Other	<p>The patch is given as a Max "collective" patch and as a Max "standalone" application.</p> <p>The patch use instrumental audio samples from University of Iowa musical instrument sample database, http://theremin.music.uiowa.edu/.</p> <p>The patch requires (and includes) these dependencies:</p> <ul style="list-style-type: none">- Spat 5 (available from IRCAM, https://www.ircam.fr/);- Serge Lemouton's Samplor package (available in Max Package Manager)

File Format

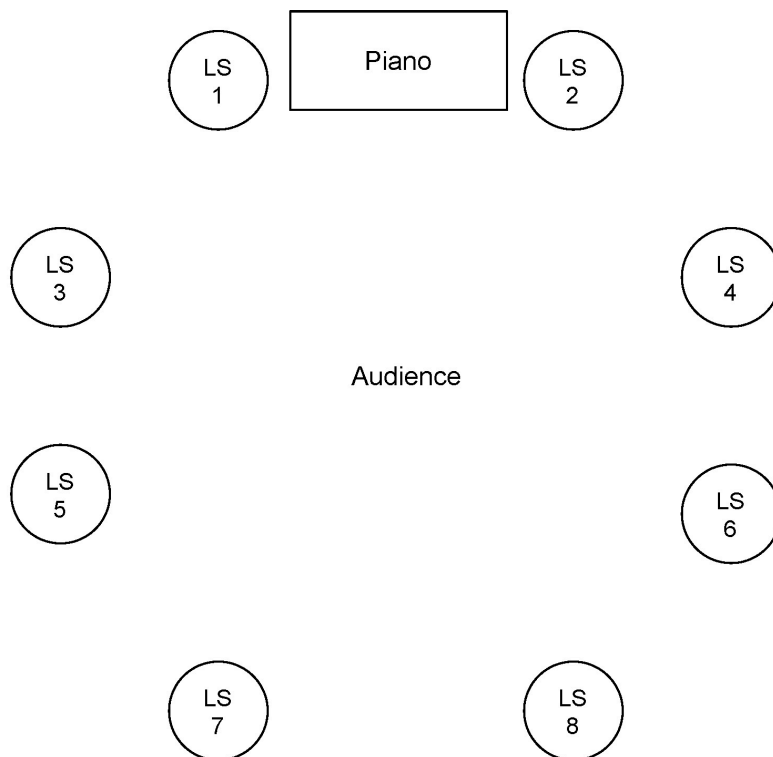
Format: n/a
Duration: 6'48"
Sample Rate: 44.1kHz
Bit Depth: 16-bit

Channel Order

For concert performance an outer array (of up to 8 loudspeakers) can be used surrounding the audience. The default channel–loudspeaker orientation on a regular 8-loudspeaker array is given below.

Channel 1	Front left
Channel 2	Front right
Channel 3	Front Left wide
Channel 4	Front right wide
Channel 5	Rear left wide
Channel 6	Rear right wide
Channel 7	Rear left
Channel 8	Rear right

Stage Plan



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