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## Woodwind Extension Through the Systematic Use of Microtonality and Electronic Manipulation of the Instrument

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# GRADCAM

graduate school of creative arts and media  
scoil iarchéime na n-ealaíon agus na meán


## Seán Mac Erlaine

alto saxophone

live electronics [delays, ring modulator, distortion]

[www.sean-og.com](http://www.sean-og.com)

This research questions how the expressive range of the saxophone / bass clarinet can be extended in new ways by employing both a systematic use of **microtonality** and **electronic manipulation** of the instrument.

A solid, bright pink horizontal bar at the bottom of the slide, with a diagonal cut on the left side.

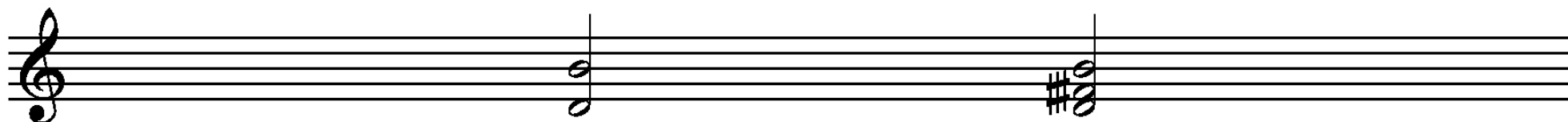
## quarter-tone scale



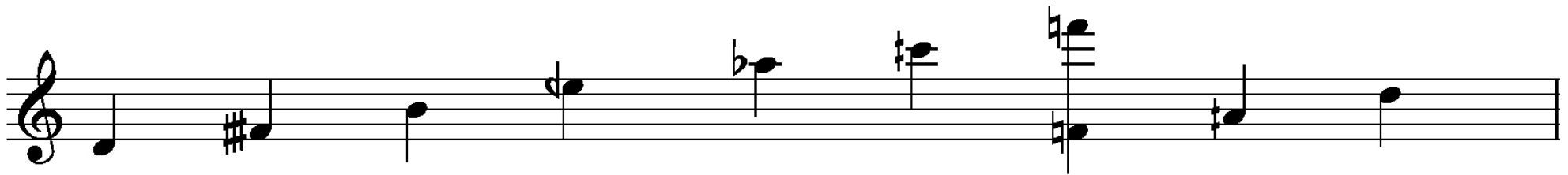
## new intervallic possibilities



## split intervals



## split major 6<sup>th</sup> scale

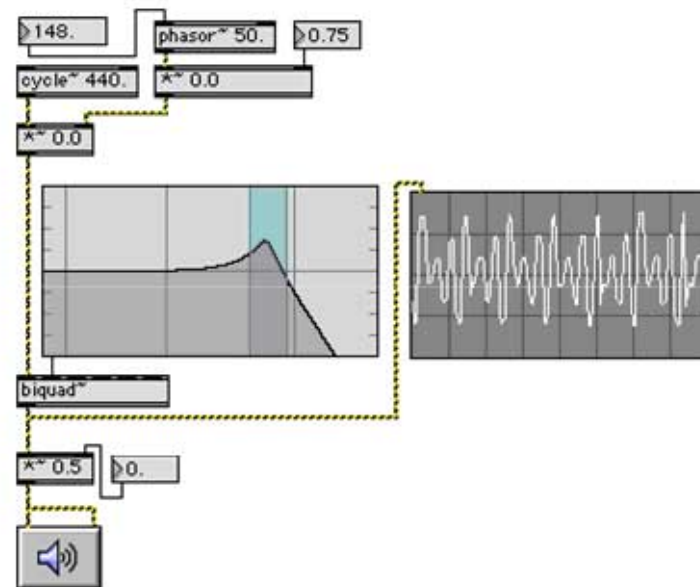


## live electronics

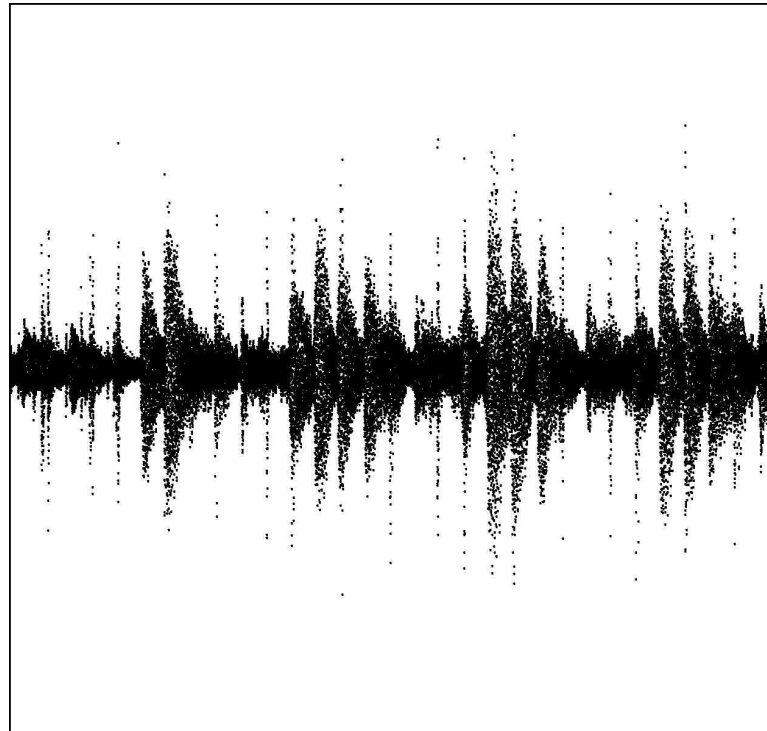




## MAX/MSP programming



# improvisation



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