

TBD

Be Inquisitive, Share and Inspire

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Overview

In many conversations and talks given after Joe had retired, he rarely talked about Erlang, and instead focused on the different expressions of the ideas that had driven it: models of concurrency based on the realities of physics, the importance of self contained code and applications, and perhaps most important of all, the importance of designing by prototyping. For this special keynote, one of Erlang's co-inventors and the creators of Sonic Pi and TiddlyWiki reflect on what they have learned while collaborating with Joe.

Disclaimer

This is our attempt to retrospectively piece together some patterns from the experience of working with Joe. These are our words. Speaking for Joe is difficult because while he was very strong willed, he was open to argument and frequently developed his views.

Always Write Code

Treat programming as an activity to help us to think.

Discover The Minimum Primitives

Getting the right set of minimum primitives leads to basic simplicity

Joe and Sam talking about The Sonic Pi

<https://youtu.be/4SUdnOUKGmo>



Identify the Language First



Endless Curiosity



Joe and Jeremy talking about The TiddlyWiki

https://youtu.be/Uv1UfLPK7_Q



Accept the constraints of physics

Reject abstractions that deny the realities of the underlying laws of nature

Favour

Self-containedness

TiddlyWiki driving Sonic Pi

HelloThere

Cutoff for Tilbury 2:

Play Stop Tilbury 2

```
# Tilburg 2 w/ incoming OSC mode
# Coded by Sam Aaron

set "/osc/cutoff", 100

load_samples :quit_em9, :bd_haus

live_loop :low do
  tick
  synth :zawa, wave: 1, phase: 0.25, release: 5, note: (kmit :e1,
12, :c1, 4).look, cutoff: (line 60, 120, steps: 6).look
  sleep 4
end

with_fx :reverb, room: 1 do
  live_loop :lands, auto_cue: false do
    use_synth :dsaw
    use_random_seed 310003
    ns = (scale :e2, :minor_pentatonic, num_octaves: 4).take(4)
    16.times do
      # assumes an incoming OSC message
      # with path: /osc/cutoff
      # and float arg in the range 0.0 -> 1.0
      co = ((get["/osc/cutoff"]||0) || 0.7) * 96) + 40
```

Sonic Pi

```
1 # Welcome to Sonic Pi v3.1
2
3
```

live

```
(print 1, time: 2.4180, thread: (live_loop_beep -
  sample :applications/sonic_pi_app/rtc/comp
    "loop_amer.flac", :start): 0.875, 1)
(print 1, time: 3.83, thread: (live_loop_beep -
  sample "Applications/Sonic_Pi_app/rtc/comp
    "loop_amer.flac", :start): 0.875, 1)
(print 1, time: 2.8481, thread: (live_loop_beep -
  sample "Applications/Sonic_Pi_app/rtc/comp
    "loop_amer.flac", :start): 0.375, 1)
(print 1, time: 3.0463, thread: (live_loop_beep -
  sample "Applications/Sonic_Pi_app/rtc/comp
    "loop_amer.flac", :start): 0.875, 1)
```

Visualizer showing frequency spectrum with peaks at various frequencies.

Sonic Pi

Music as code
CODE AS ART

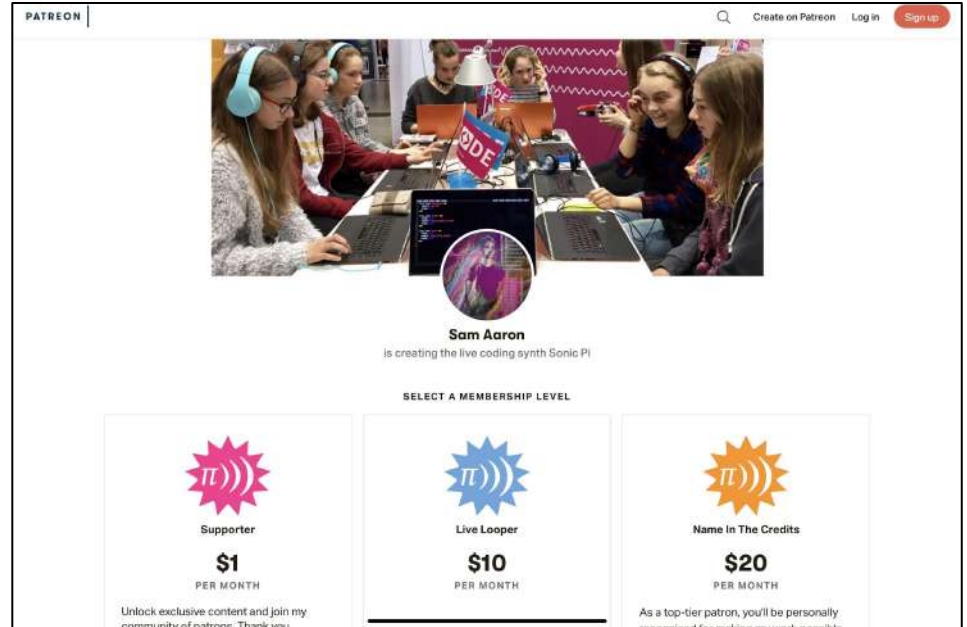
Sonic Pi v3.1 on Mac

<https://github.com/Jermolene/sonic-pi-for-tiddlywiki>

Supporting Sonic Pi

Donate to Sam via Patreon:

<https://www.patreon.com/samaaron>



The image is a screenshot of a Patreon profile for Sam Aaron. At the top, there's a navigation bar with 'PATREON', a search icon, 'Create on Patreon', 'Log in', and a 'Sign up' button. Below this is a large banner image showing a group of people in a workshop setting, some wearing headphones and looking at laptops. A small circular profile picture of Sam Aaron is overlaid on the bottom right of the banner. Below the banner, the name 'Sam Aaron' is displayed, followed by the bio 'Is creating the live coding synth Sonic Pi'. Underneath the bio is the text 'SELECT A MEMBERSHIP LEVEL'. There are three membership tiers shown in white boxes with rounded corners:

- Supporter**: \$1 PER MONTH. The icon is a pink starburst with a pi symbol and three curved lines. Below the tier name, it says 'Unlock exclusive content and join my community of patrons. Thank you.'
- Live Looper**: \$10 PER MONTH. The icon is a blue starburst with a pi symbol and three curved lines.
- Name In The Credits**: \$20 PER MONTH. The icon is an orange starburst with a pi symbol and three curved lines. Below the tier name, it says 'As a top-tier patron, you'll be personally mentioned in the credits.'

Supporting TiddlyWiki

Hire Jeremy via Federatial

<https://federatial.com/>



Questions

#RememberingJoe

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