

Stop adding
business value
and become
an artist with
your IT skills

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Developer Advocate @ Diagrid

Dapr community manager

I <3 creative coding



Javascript

python

bash

Does writing **code** make you happy?

Go

yaml

Powershell





Happy people live longer!

TABLE 2
Hazard Ratios of Happiness and the Risk of Death for U.S. Adults, 1978–2008 (N=31,481)

	Model 1	Model 2	Model 3	Model 4	Model 5
General Happiness (very)					
Pretty happy	1.07 **	1.07 **	1.06 *	1.07 **	1.06 *
Not happy	1.21 ***	1.20 ***	1.15 ***	1.15 ***	1.14 **
Covariates					
Male	1.39 ***	1.39 ***	1.44 ***	1.44 ***	1.43 ***
Race (white)					
Black	1.39 ***	1.38 ***	1.31 ***	1.30 ***	1.31 ***
Other race	1.06 ***	1.06	1.04	1.03	1.04
Marital Status (married)					
Widowed		1.03	1.00	1.00	1.00
Divorced		0.99	0.97	0.97	0.96
Never married		1.13 **	1.12 **	1.13 **	1.12 **
Income to needs (less than 100%)					
100–199%			0.91 **	0.91 **	0.92 *
200–299%			0.88 **	0.88 **	0.88 **
300% or more			0.92 *	0.92 *	0.92 *

Notes: Referent is listed in parentheses.
Source: GSS-NDI
***p < .001;
**p < .01;
*p < .05;
*p < .10

[Open in a separate window](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4724393/>

No pressure!

No KPIs!

Do something fun with the skills
you already have!

No annoying
colleagues!

No story points!





Generative art

Algorithmic art

Create something expressive
with creative coding!

Drawings, music, poetry



p5.js

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Hello!

p5.js is a JavaScript library for creative coding, with a focus on making coding accessible and inclusive for artists, designers, educators, beginners, and anyone else! p5.js is free and open-source because we believe software, and the tools to learn it, should be accessible to everyone.

Using the metaphor of a sketch, p5.js has a full set of drawing functionality. However, you're not limited to your drawing canvas. You can think of your whole browser page as your sketch, including HTML5 objects for text, input, video, webcam, and sound.

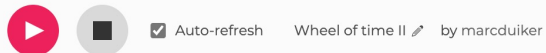
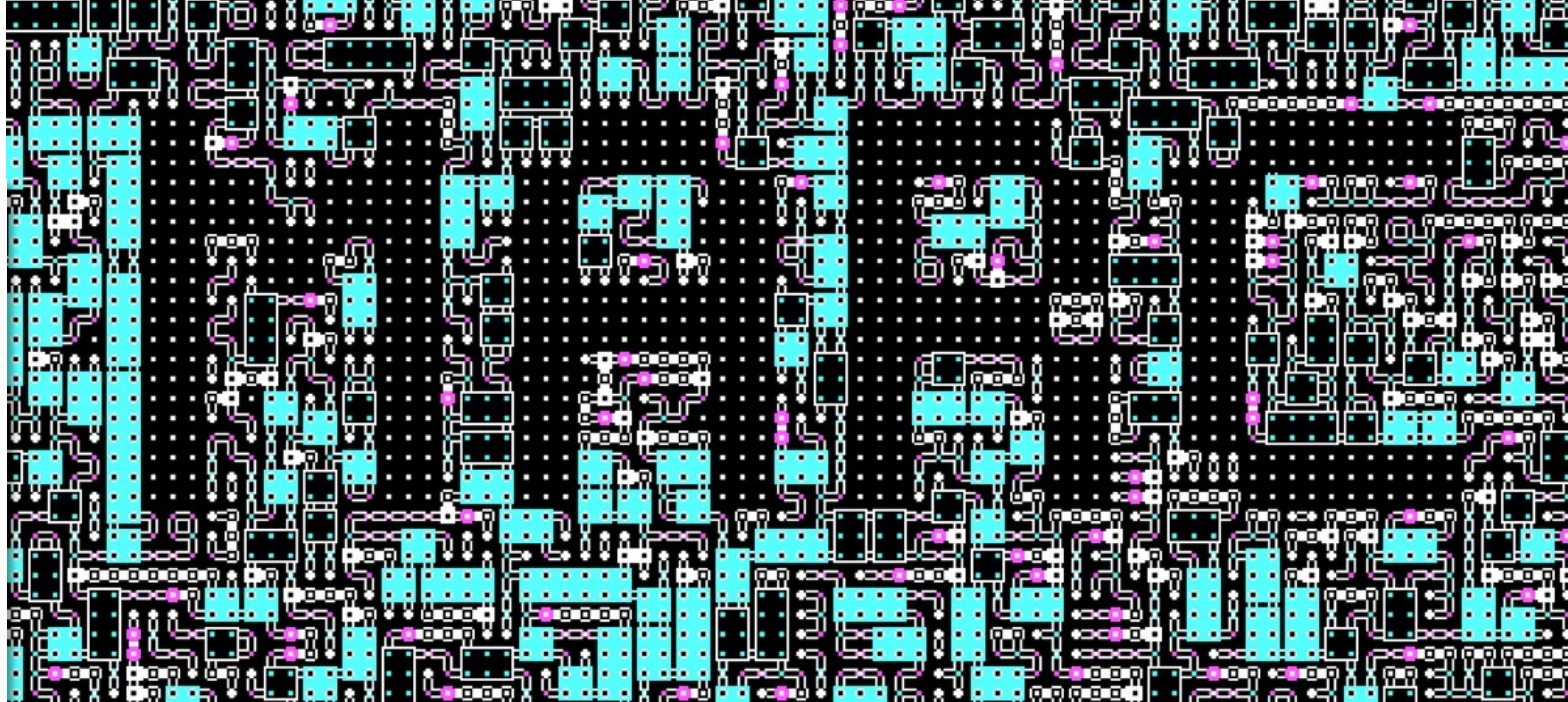
[Start creating with the p5 Editor!](#)

Dapr hat cam 📷 🎥

Model Loaded

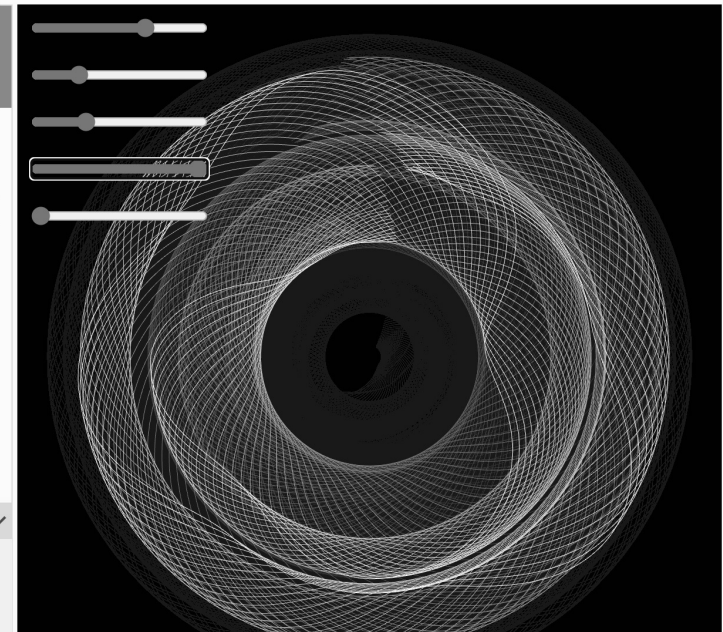


<https://iamdapr.dev/>



```
> sketch.js Saved: almost 2 years ago Preview  
1 // Wheel of Time II  
2 // Marc Duiker, Dec 2021  
3 // https://twitter.com/marcdiuker  
4 // Inspired by the excellent The Nature of Code  
5 // tutorials by The Coding Train / Daniel Shiffman  
6 // Please don't use this code to make NFTs.  
7  
7 let outerAngle = 0;  
8 let rOffsetStart = 0;  
9 let rOffset;  
10 let strokeOffsetStart = 0;  
11 let rIncrement = 0.001;  
12 let startIncrement = 0.02;  
13 let strokeIncrement = 0.01;  
14  
15 function setup() {  
16   createCanvas(600, 600);
```

Console Clear





Sonic Pi

*Experience the **sound of code**.*

Sonic Pi is your free code-based music creation and performance tool.

Powerful for professional musicians and DJs.

Expressive for composition and performance.

Accessible for blind and partially sighted people.

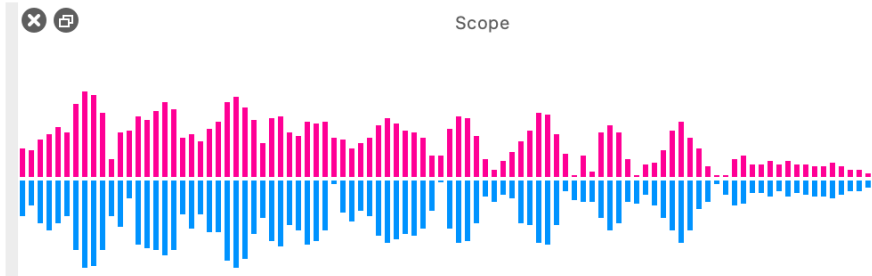
Simple for computing and music lessons.



```

3  bd = (ring 1, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 1)
4  clh = (ring 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1)
5  clo = (ring 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 0, 1, 0)
6  sn = (ring 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1)
7
8  beat_cutoff = (line 130, 80, step: 5)
9  beat_amp = 0.6
10 drone_amp = 0.8
11 pad_amp = 0.6
12 root_note = :f1
13 bs_cutoff = (line 100, 80, step: 5)
14
15 live_loop :bassdrum do
16   with_fx :lpf, cutoff: beat_cutoff.tick, amp: beat_amp do
17     4.times do
18       if bd.tick == 1
19         sample :bd_ada, amp: 1.5
20       end
21       sleep 0.25
22     end
23   end
24 end
25
26 live_loop :bassline do
27   bs = scale(root_note, :major_pentatonic, num_octaves: 2)
28   seeds = (ring 30, 20, 50, 10)
29   use_random_seed seeds.tick
30   use_synth :dsaw
31   with_fx :reverb, mix: 0.5, damp: 0.1, room: 0.3, amp: drone_amp do
32     with_fx :distortion, distort: 0.1, mix: 0.2 do
33       4.times do
34         play bs.choose, cutoff: bs_cutoff.tick, attack: 0.01, release: 0.2,
35         sleep 0.25

```

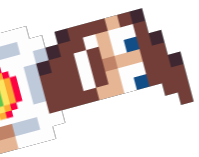


Log

- sample "/Applications/Sonic Pi.app/Contents/Resources, "drum_cymbal_closed.flac", {amp: 0.2787}
- {run: 1, time: 21.375, thread: :live_loop_hihat_closed}
 - sample "/Applications/Sonic Pi.app/Contents/Resources, "drum_cymbal_closed.flac", {amp: 0.2544}
- {run: 1, time: 21.375, thread: :live_loop_bassline}
 - synth :dsaw, {note: 29.0, cutoff: 90.0, attack: 0.005}
- {run: 1, time: 21.375, thread: :live_loop_hihat_open}
 - sample "/Applications/Sonic Pi.app/Contents/Resources, "drum_cymbal_hard.flac", {amp: 0.2648, relea

Cues

/live_loop/hihat_open	<input type="checkbox"/>
/live_loop/bassline	<input type="checkbox"/>
/live_loop/snare	<input type="checkbox"/>
/live_loop/bassdrum	<input type="checkbox"/>
/live_loop/hihat_open	<input type="checkbox"/>
/live_loop/hihat_closed	<input type="checkbox"/>
/live_loop/bassdrum	<input type="checkbox"/>
/live_loop/snare	<input type="checkbox"/>
/live_loop/bassline	<input type="checkbox"/>
/live_loop/bassdrum	<input type="checkbox"/>
/live_loop/hihat_closed	<input type="checkbox"/>
/live_loop/bassline	<input type="checkbox"/>
/live_loop/hihat_open	<input type="checkbox"/>
/live_loop/snare	<input type="checkbox"/>



SUPERCOLLIDER

**A PLATFORM FOR AUDIO SYNTHESIS AND ALGORITHMIC COMPOSITION, USED BY
MUSICIANS, ARTISTS AND RESEARCHERS WORKING WITH SOUND.
FREE AND OPEN SOURCE SOFTWARE FOR WINDOWS, MACOS AND LINUX.**

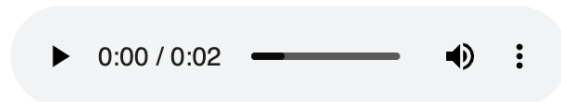
Simple FM

```
{ SinOsc.ar(SinOsc.kr([1, 3]).exprange(100, 2e3), 0, 0.2) }.play
```



Drummer – Thor Magnusson, 2006

```
{  
  var snare, bdrum, hihat;  
  var tempo = 4;  
  
  tempo = Impulse.ar(tempo); // for a drunk drummer replace Impulse with Dust  
  snare = WhiteNoise.ar(Decay2.ar(PulseDivider.ar(tempo, 4, 2), 0.005, 0.5));  
  bdrum = SinOsc.ar(Line.ar(120,60, 1), 0, Decay2.ar(PulseDivider.ar(tempo, 4  
  hihat = HPF.ar(WhiteNoise.ar(1), 10000) * Decay2.ar(tempo, 0.005, 0.5));  
  
  Out.ar(0, (snare + bdrum + hihat) * 0.4 ! 2)  
}.play
```





An **algorave** is an event where people dance to music **generated from algorithms**, often using **live coding techniques**.

Λ L G

∅ △ R

Λ V E

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- AlgoMech Festival

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Want to run your own algo rave? Read our guidelines.

We are ten

10th birthday celebration, 19/20 March 2022

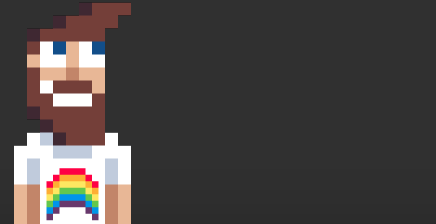
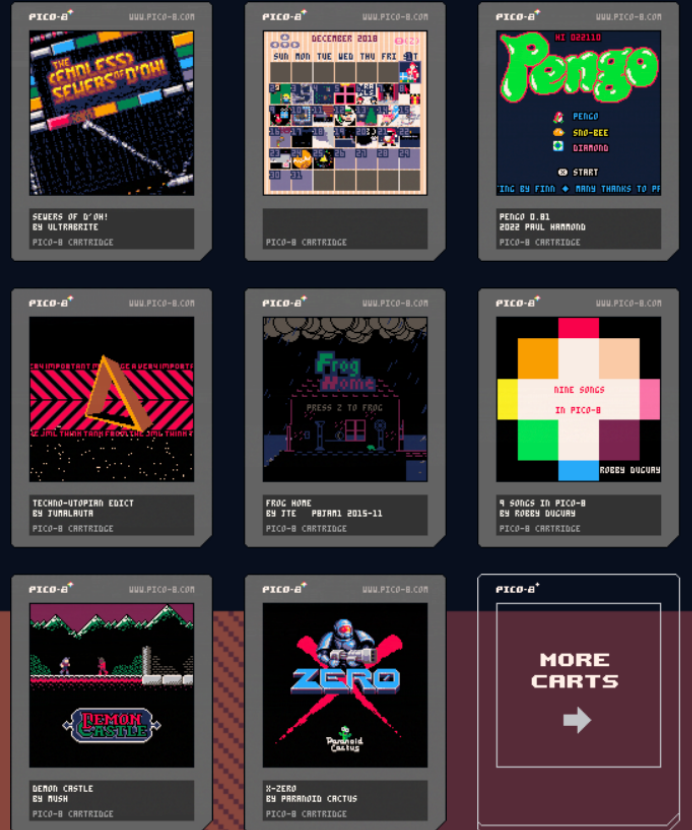
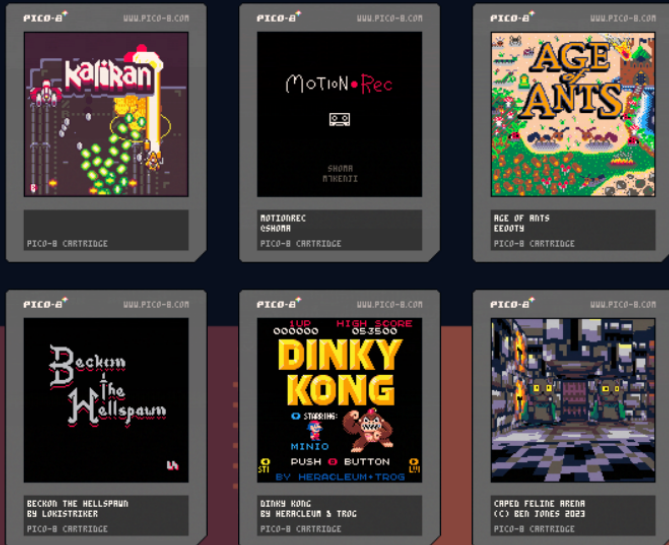
previous worldwide streams

Compassion through algorithms

algorave.com



Now playing Age of Ants
by @eooty



Welcome to PICO-8!

www.lexaloffle.com/pico-8.php

PICO-8 is a **fantasy console** for making, sharing and playing tiny games and other computer programs. It *feels* like a

0 1 2 3 4 5 + ()

```

FUNCTION TRY_DELIVER_EGG
LOCAL IS_DELIVERED=FALSE
FOR _D=1,NDINDS DO
IS_DELIVERED=TRY_DELIVER
IF IS_DELIVERED THEN
SCORE+=1
RETURN TRUE
END
END
RETURN FALSE
END

```

```

FUNCTION TRY_DELIVER(_X,_Y,_EGGS)
IF _DIND.EGGSPR==_EGGSPR AND
IS_ADJACENT(_X,_Y,_DIND) THEN
PLACE_EGG(_DIND)
RETURN TRUE
END

```

LINE 63/110 1519/8192

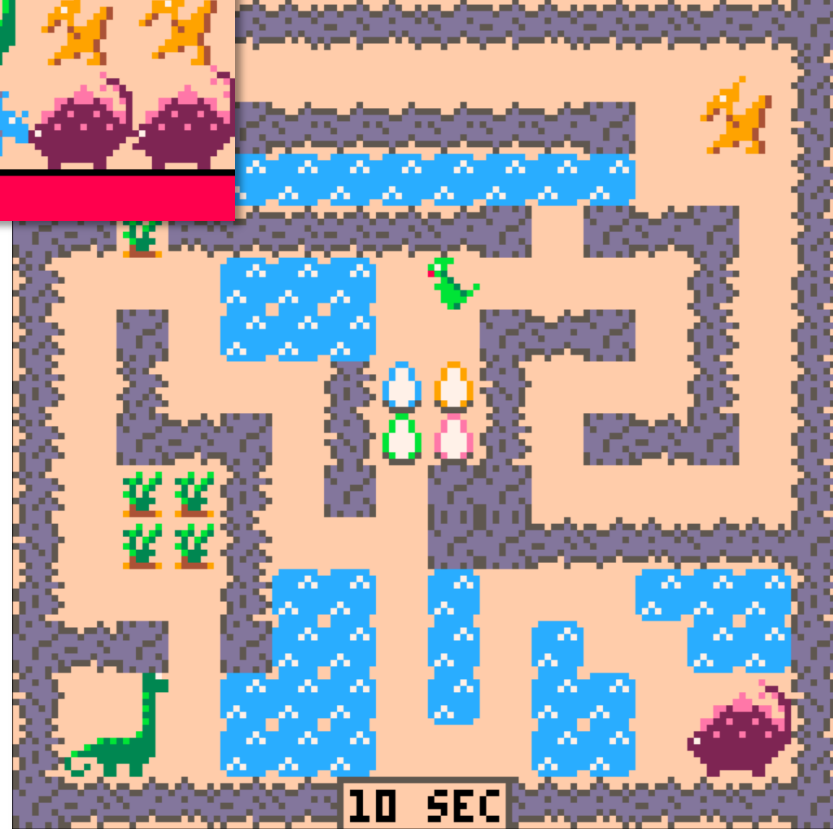


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VOL

FH205	E 205	CH301
FH204	E 204	CH305
CH205	CH305	CH301
CH204	CH304	



VERY DAMPEN



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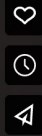
日本語 영어 简体中文



OPENFRAMEWORKS SHOWREEL #1

SELECTED WORKS

Tr... 01:35 The Way U Do - RL Grime Remix



openFrameworks is an open source C++ toolkit for creative coding.

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01

New TouchDesigner Curriculum for Beginners - [Learn more](#)

openframeworks.cc

TouchDesigner / derivative.ca

Books

Frameworks

github.com/terkelg/awesome-creative-coding

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Events





The Coding Train ✓

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go.nebula.tv/codingtrain and 5 more links

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www.youtube.com/@TheCodingTrain





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GENUARY 2023

GENUARY returns! GENUARY is an artificially generated month of time where we build code that makes beautiful things.

It's happening during the month of January 2023, and everybody is invited!

Over the 744 hours of January, for every 24 hours there will be one prompt for your code art.

You don't have to follow the prompt exactly. Or even at all. But, y'know, we

Stop adding business value!
Become an artist
with your IT skills
and have some fun!

(but please don't make NFTs)

