

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

Marc Duiker

Developer Advocate @ Diagrid

Dapr community manager

I <3 creative coding



Javascript

python

bash

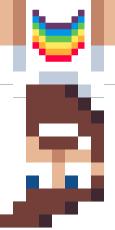
Does writing **code** make you happy?

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 *	

[Open in a separate window](#)

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

<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!



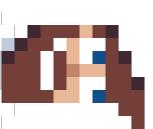


Generative art

Algorithmic art

Create something expressive
with creative coding!

Drawings, music, poetry



p5.*js

[Home](#)
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Hello!

Search p5js.org

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

Auto-refresh Wheel of time II by marcduiker

sketch.js

Saved: almost 2 years ago

Preview

```
1 // Wheel of Time II
2 // Marc Duiker, Dec 2021
3 // https://twitter.com/marcduiker
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
8 let outerAngle = 0;
9 let rOffsetStart = 0;
10 let rOffset;
11 let strokeOffsetStart = 0;
12 let rIncrement = 0.001;
13 let startIncrement = 0.02;
14 let strokeIncrement = 0.01;
15
16 function setup() {
17   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.

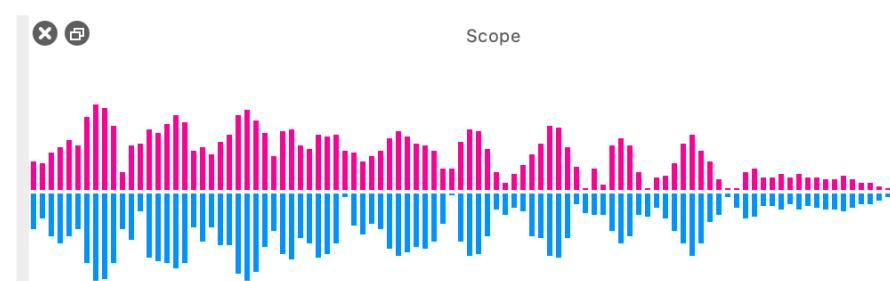
run ▶ stop ■ rec ● save + load ↴



size ↓ size ↑ scope info λ help Δ prefs π

```
3 bd = (ring 1, 0, 0, 0, 1, 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)
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, 1, 0, 0, 1, 0)
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
```

Line: 39. Position: 4



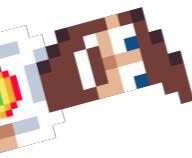
Log

```
└ 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	█
/live_loop/bassline	█
/live_loop/snare	█
/live_loop/bassdrum	█
/live_loop/hihat_open	█
/live_loop/hihat_closed	█
/live_loop/bassdrum	█
/live_loop/snare	█
/live_loop/bassline	█
/live_loop/bassdrum	█
/live_loop/hihat_closed	█
/live_loop/bassline	█
/live_loop/hihat_open	█
/live_loop/snare	█

Link Metronome & Global Time Warn



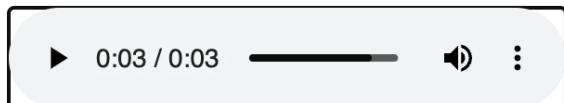
SUPERCOLLIDER



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.

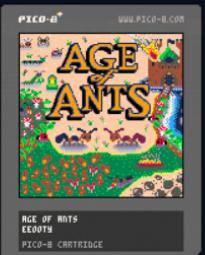
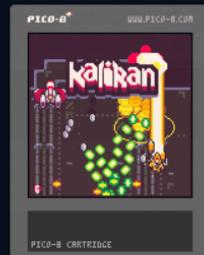
The website features a large, abstract geometric background composed of white lines forming a complex polyhedron-like structure. Overlaid on this are several teal-colored mathematical symbols: a Greek letter Λ at the top left, a square bracket L at the top center, a circle with a diagonal line Ø at the top right, a Greek letter G at the top right, a triangle at the center, a Greek letter R at the bottom right, a Greek letter Λ at the bottom left, a V at the bottom center, and a Greek letter Σ at the bottom right. Below these symbols is a navigation bar with links: HOME / FORUM / CHAT / INFO /. Underneath the navigation bar is a section titled "Follow" with links to Twitter, Instagram, and Facebook. Another section titled "Friends" lists "65dos", "Alexandra Cardenas", "AlgoBabez", and "AlgoMech Festival". A "Home" section contains a link to "our guidelines" and a note "Want to run your own algorave? Read our guidelines.". A "We are ten" section mentions a "10th birthday celebration, 19/20 March 2022" and links to "previous worldwide streams" and "Compassion through algorithms".

algorave.com

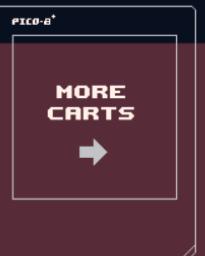
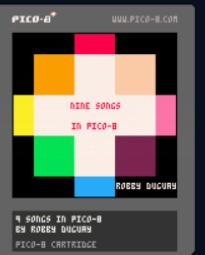




Now playing Age of Ants
by @eeooty



[Download v0.2.5g](#)



PICO-8

FAQ

Resources

Schools

Submit

Forum

Carts



Welcome to PICO-8!

www.lexaloffle.com/pico-8.php

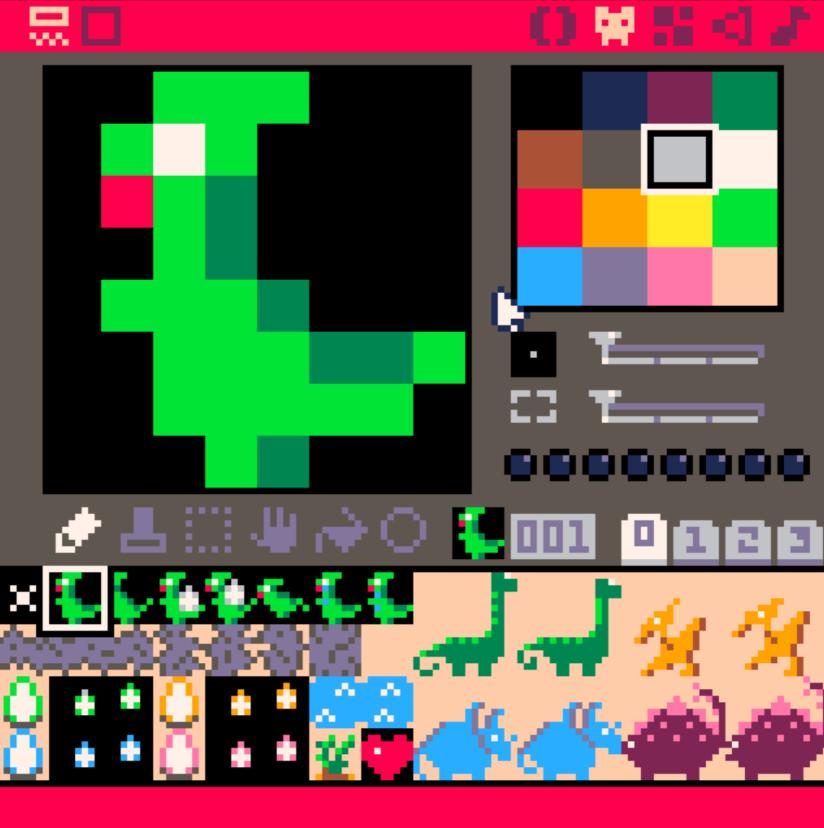
PICO-8 is a fantasy console for making, sharing and playing tiny games and other computer programs. It *feels* like a real console, but it runs on Windows, Mac, Linux, Web, and mobile devices.

012345 + 0

```
FUNCTION TRY_DELIVER_EGG
LOCAL IS_DELIVERED=FALSE
FOR _D=1, NDINOS DO
  IS_DELIVERED=TRY_DELIV
  IF IS_DELIVERED THEN
    SCORE+=1
    RETURN TRUE
  END
END
RETURN FALSE
END
```

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

LINE 63/110 1519/8192 E

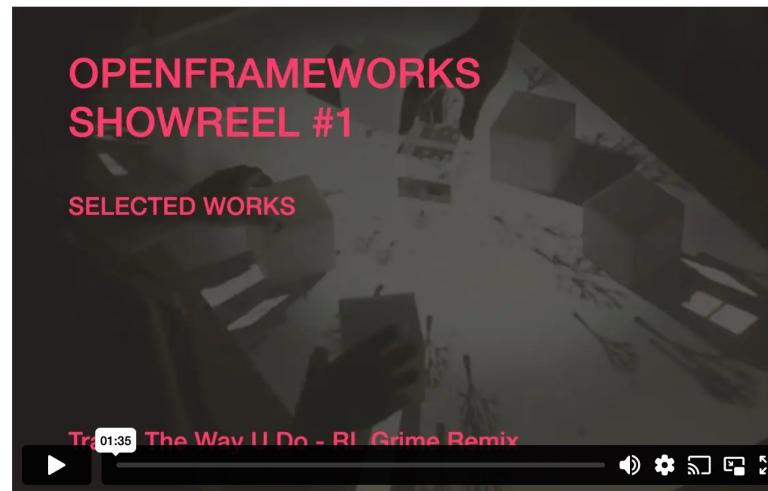




about download documentation learning gallery community development

> forum > github > addons > slack > blog > donations

日本語 영어 简体中文



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

TOUCHDESIGNER BY DERIVATIVE

TOUCHDESIGNER LEARN

FEATURES SHOWCASE COMMUNITY JOB BOARD ABOUT DERIVATIVE

MY ACCOUNT GET IT NOW

The Way I Do - RI Grime Remix

NEXT

01

LATEST NEWS

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

← →

openframeworks.cc

TouchDesigner / derivative.ca

Books

Frameworks

github.com/terkelg/awesome-creative-coding

Courses

Events





The Coding Train

@TheCodingTrain 1.62M subscribers 1.2K videos

All aboard! The Coding Train is on its way with creative coding video tutor... >

go.nebula.tv/codingtrain and 5 more links

Subscribe

Join

CODE! PROGRAMMING WITH P5.JS

Course · 36 lessons

Start learning here!

NOC NATURE OF CODE

Course · 44 lessons

The Nature of Code 2

THE SNAKE GAME

10 food = createVector(ran
11
12
13 function pickLocation()
14 var v = new Vector();
15 v.x = floor(width / 20);
16 v.y = floor(height / 20);
17 v.set(scl);
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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)

