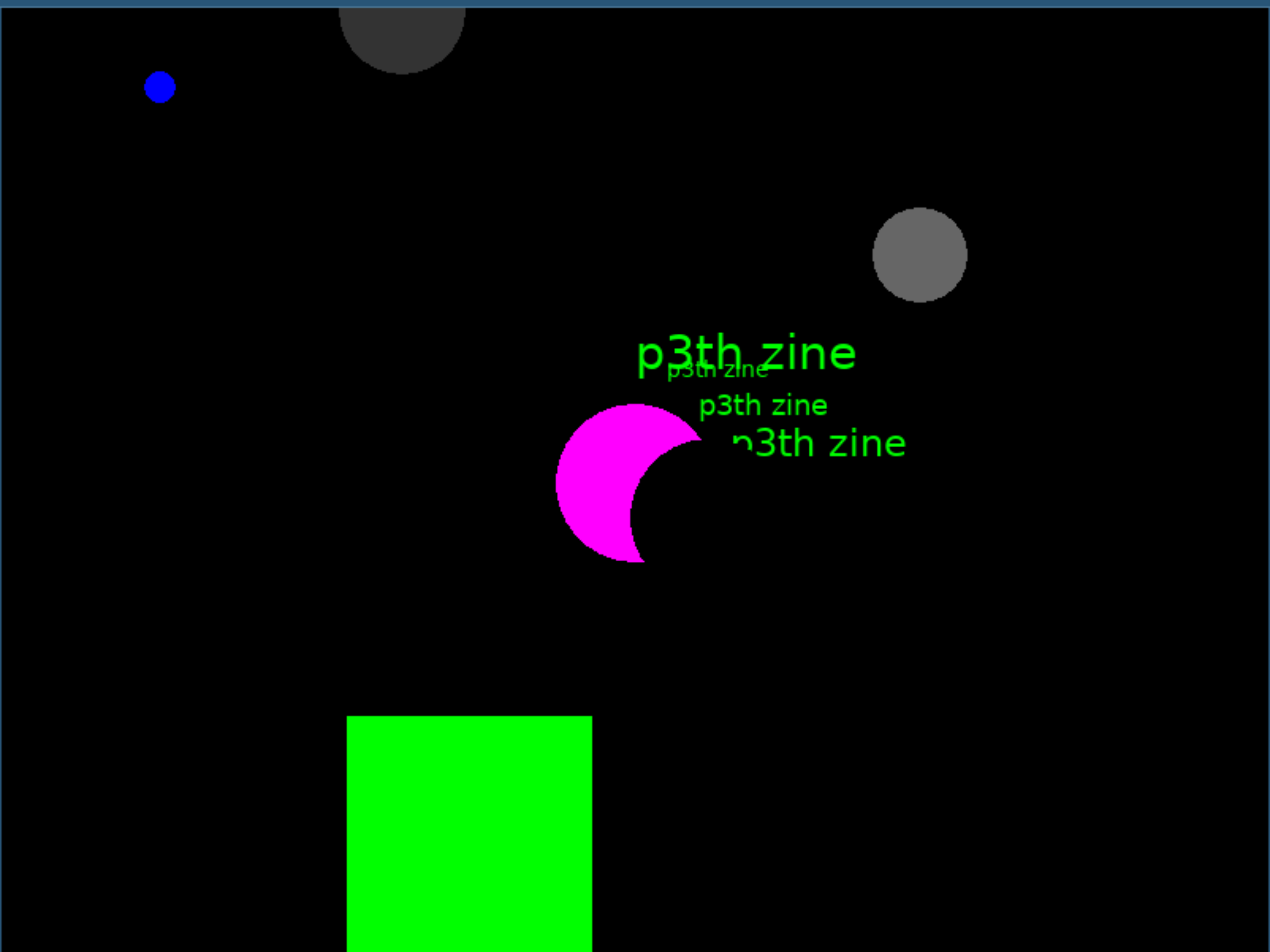
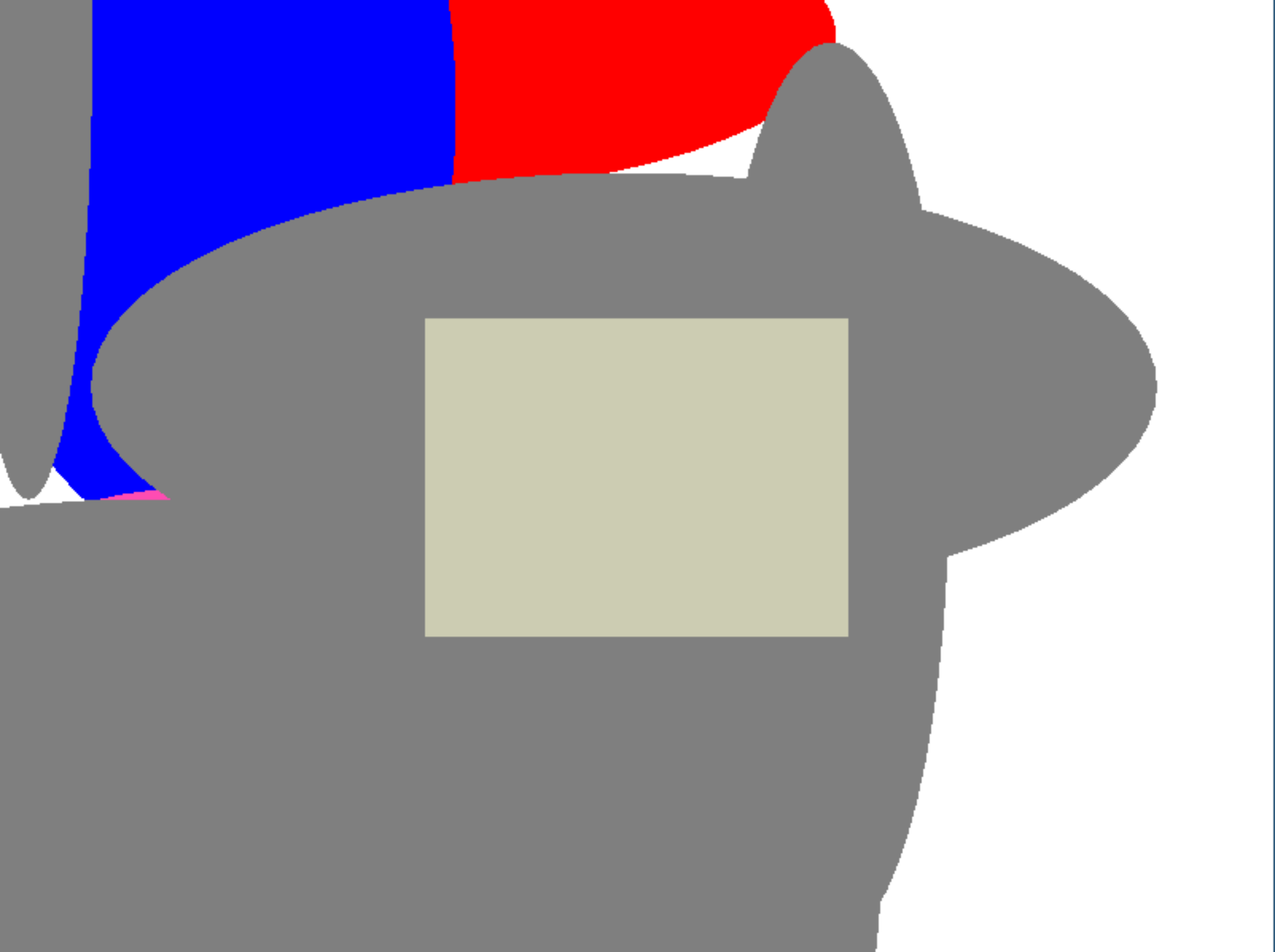

p3th zine
p3th zine
p3th zine
p3th zine

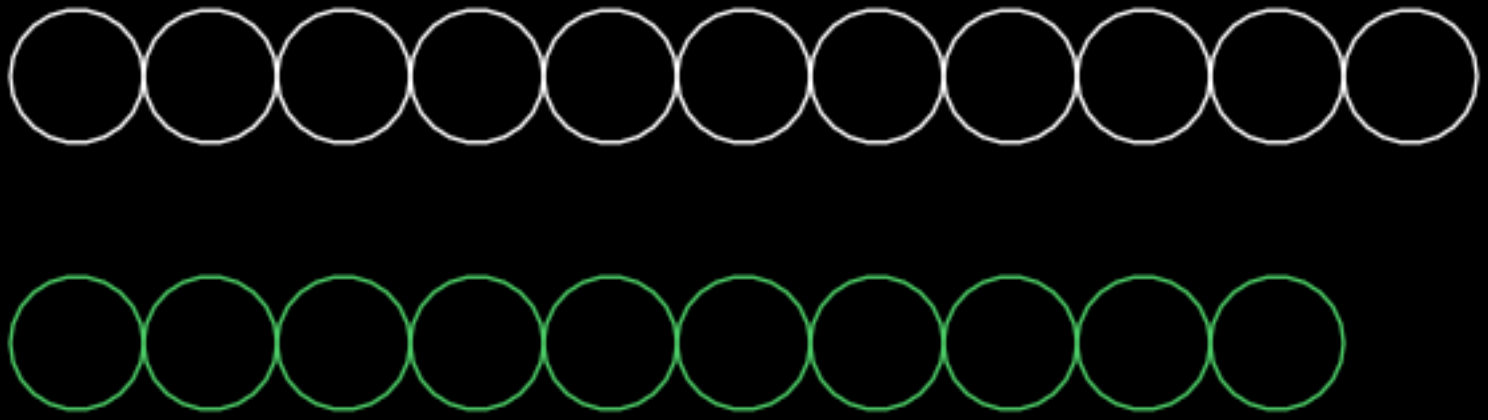
```
3th 0.0.1 2024-07-11. Type bye to exit.
> ( Hello and welcome to p3th zine, created during the 2024
 Old Computer Challenge. 3th is my in-progress Forth-based
stack language. p3th is a name that references p5.js, which
 is a javascript-based library for graphics programming, ba
sed on the Processing library API. I'm calling this p3th cu
rrently in honor of p5.js and because i'm attempting to imp
lement my own minimal graphics library using similar API. t
hough 3th itself compiles to Lua and uses the Love2d graphi
cs library. )

> ( The 3th language is a primitive stack-based language th
at can compile words. Some of the words are written in its
own language. I used the opportunity of the Old Computer Ch
allenge to attempt to transition from building the base lan
guage implementation to working on getting graphics calls w
orking in a first attempt. )
```

min
fontsize
nip
ma
height
(
emit
.
width
color
max

```
> : purple 0.7 0 0.7 color ;

> : randomcirc 50 random 50 + setvar width random height ra
ndom getvar getvar ellipse ;

> purple randomcirc
love.graphics.setColor(0.7,0,0.7,1)love.graphics.ellipse("l
ine",270,498,29.5,29.5)
> ( in the line above you can see a rendering of the two us
er-defined words purple and randomcirc )

>
```



```
❯ ./3th.lua
3th 0.0.1 2024-07-11. Type bye to exit.
> ( note that the language currently doesn't have a way to
take text string input, so i am writing all this text as a
comment, then screenshotting. so it goes )

> words
. + - * / cr dup drop swap rot debug bye words definitions
abs mod over 2swap 2dup 2over 2drop max min .s negate page
pick roll < > ⩽ ⩾ <> = -rot nip tuck emit space spaces if
 : ; ( ) then else rect ellipse color width height print ra
ndom setvar getvar fontsize background printtop ++ --
> ( well that's all the words in the language currently! )

>
```



random

ellipse

space

w

pick

mod

print

roll

abs

random

bye

swap

```
❯ ./3th.lua
3th 0.0.1 2024-07-11. Type bye to exit.
> ( this 'zine' was created in july 2024 during the Old Com
puter Challenge 2024. A challenge originally proposed by So
lene Rapenne (dataswamp.org) with the goal of creating usef
ul constraints for a week of computing using old, ancient h
ardware, or emulated hardware, or other self-chosen constra
ints. lots of people interested in perma-computation, retro
-computing, and minimalism (however self-defined) in progra
mming and technology usage participate. more info on the ch
allenge can be found on the bulletin board: https://occ.dea
dnet.se )
```

2 dup abs

```
Welcome to fish, the friendly interactive shell
Type help for instructions on how to use fish
 I  void@voidxps ~/Software/lua-stuffs/lua-forths (main)
❯ ./3th.lua
3th 0.0.1 2024-07-11. Type bye to exit.
> ( this zine is by LT 2024 CC BY )

> ( current progress on 3th: tildegit.org/exquisitecorp/3th
 )
```