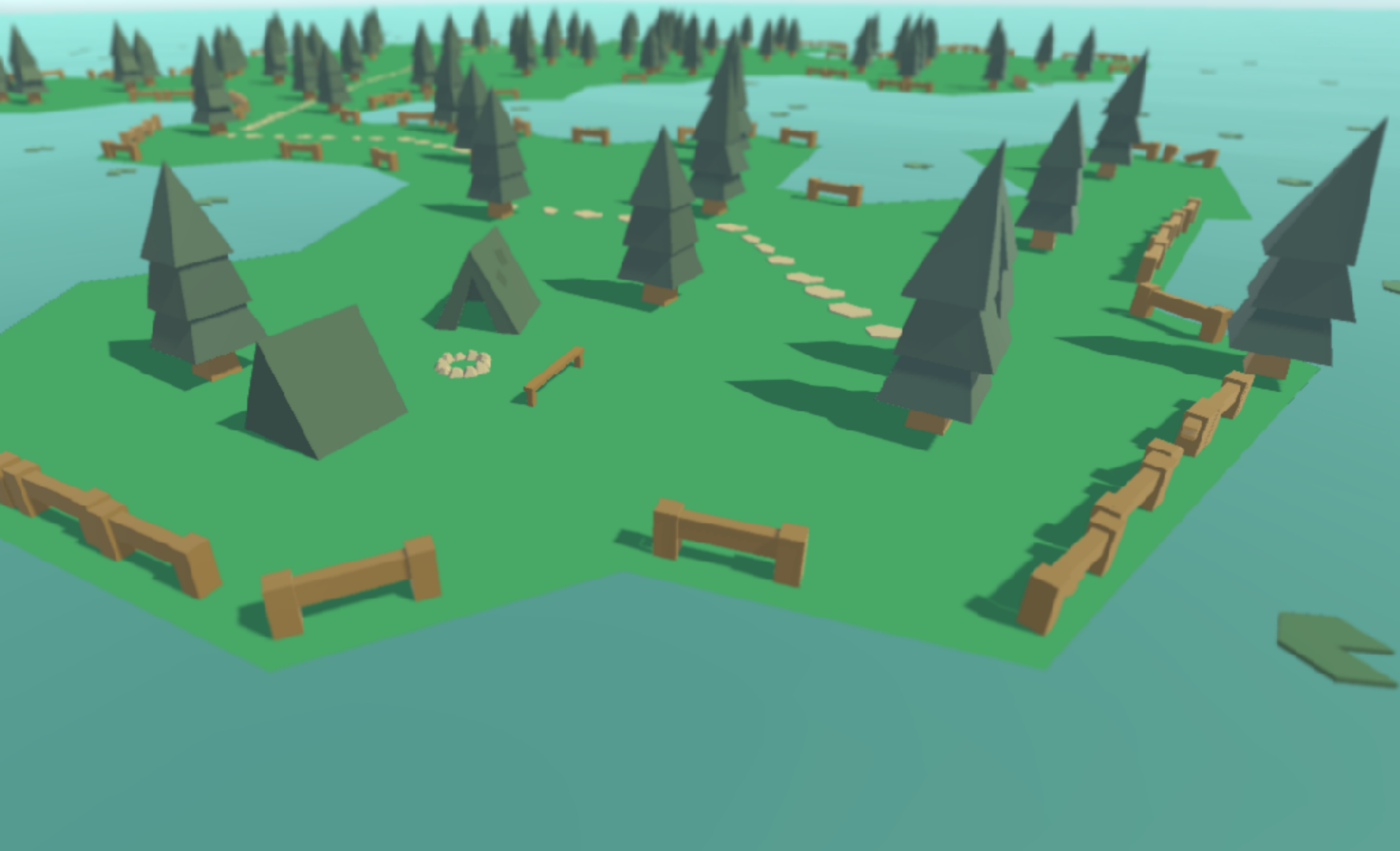


The Digital Muse

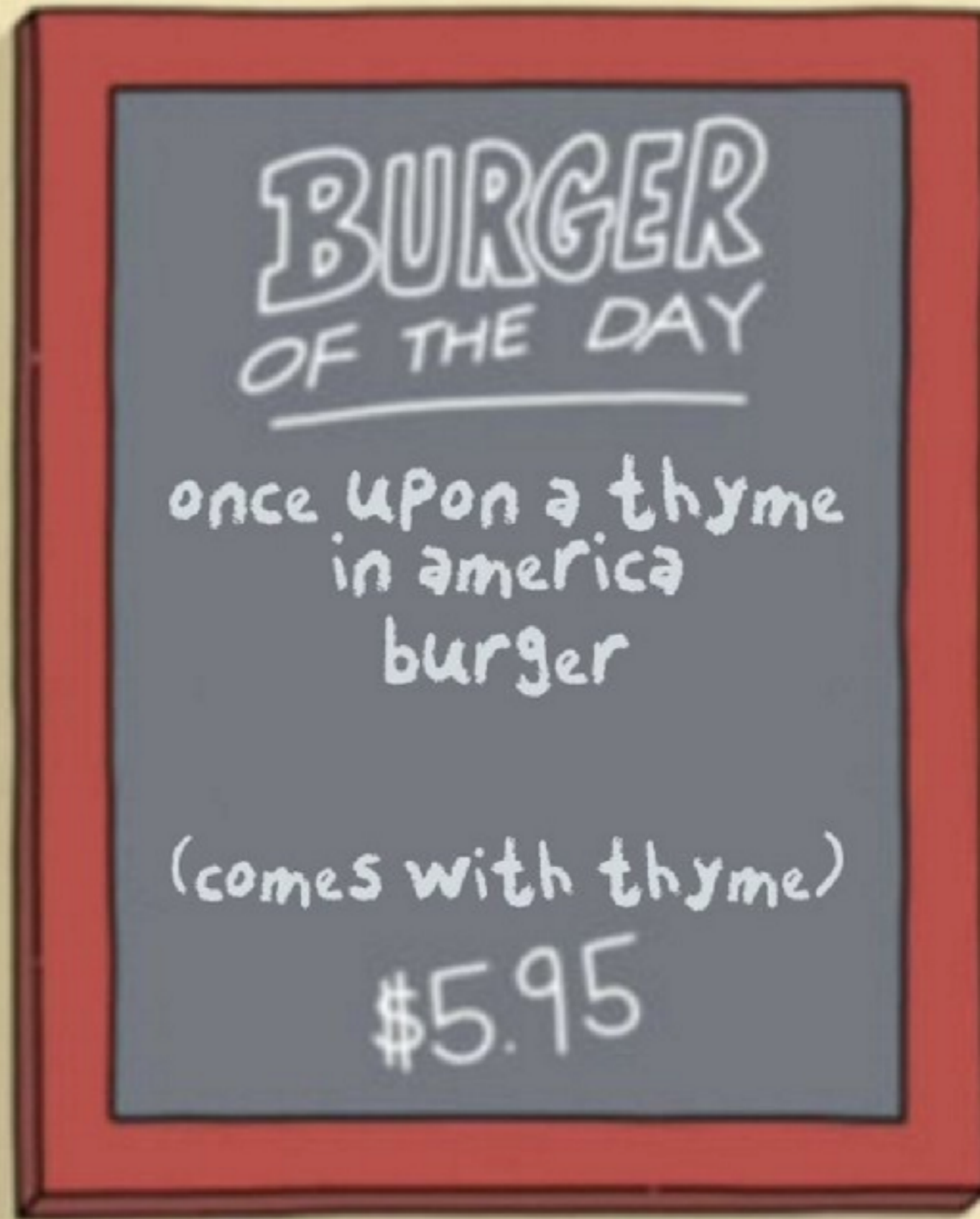
Being Creative In The Age Of Generativity

Michael Cook
University of Falmouth

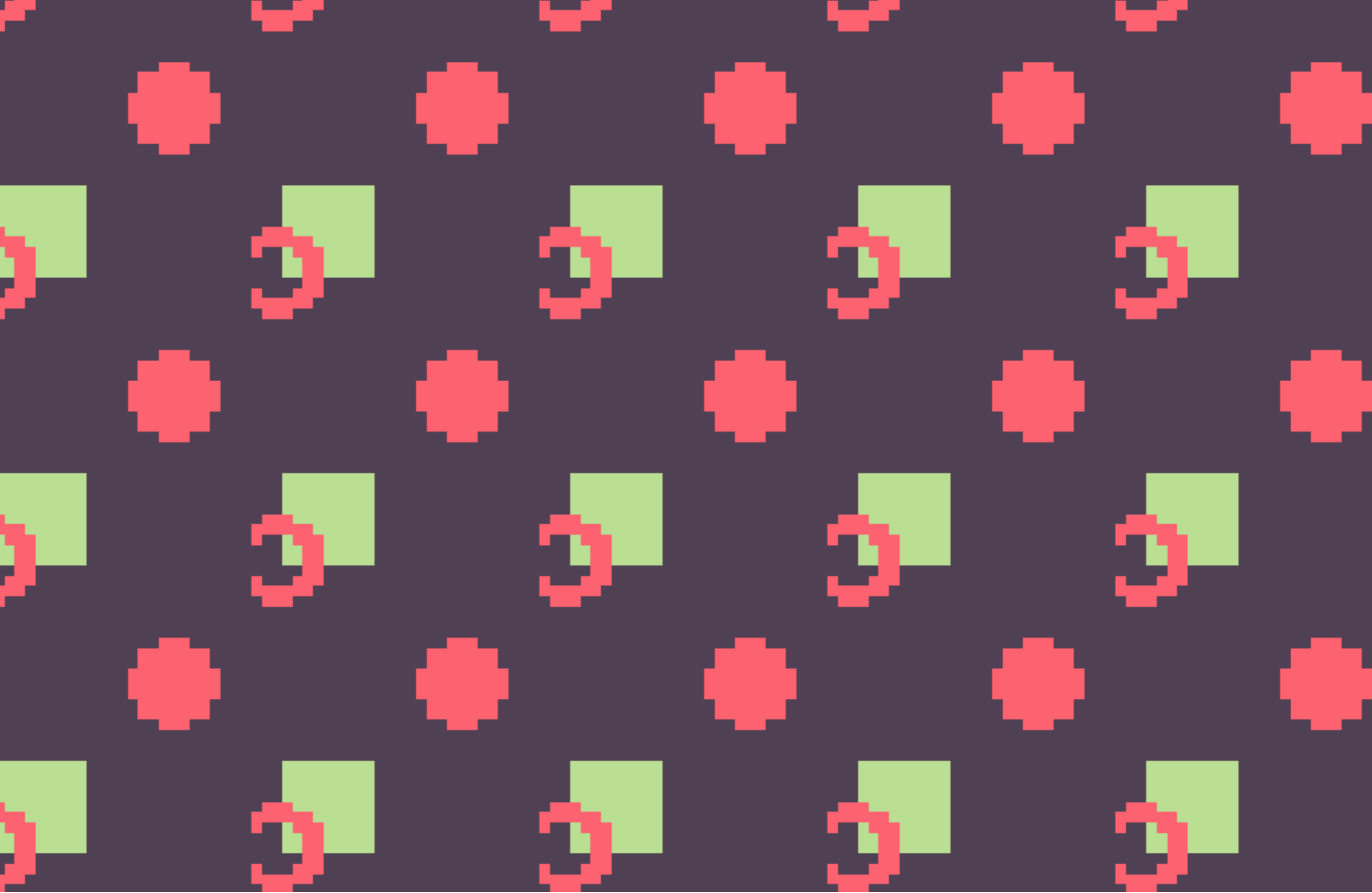
www.gamesbyangelina.org
@mtrc



gamesbyangelina.org



@botsburgers on Twitter



?????

This Talk

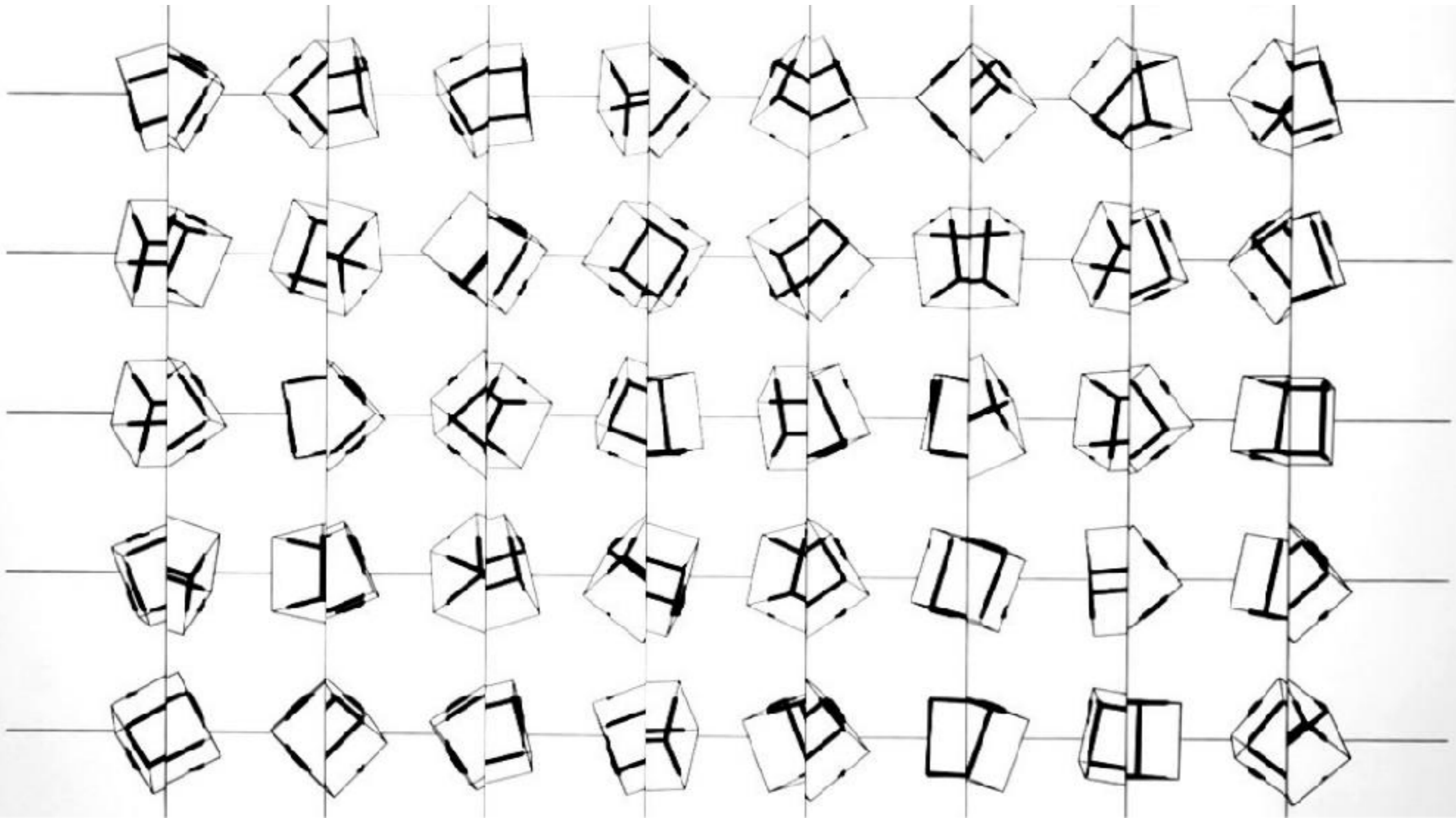
- Will your iPhone ever be more popular than you are?
- Should you renew Game of Thrones for a quintillionth season?
- How do you make an infinite birthday present?
- Short moment to reflect on the end of humanity
- Questions

Part I:

What does '*Generative Software*' even mean?

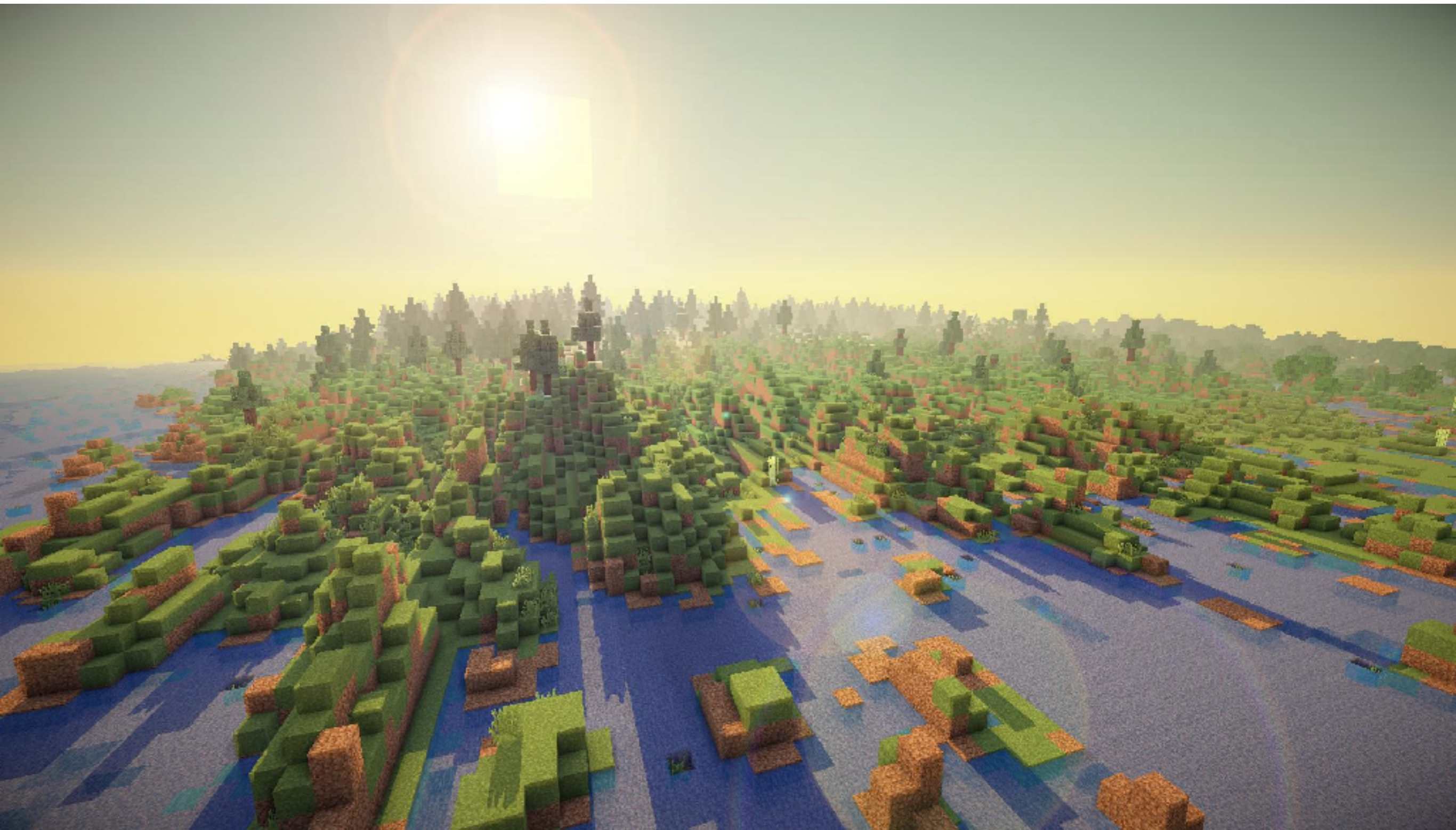
What are we afraid of?

There's a fuzzy line



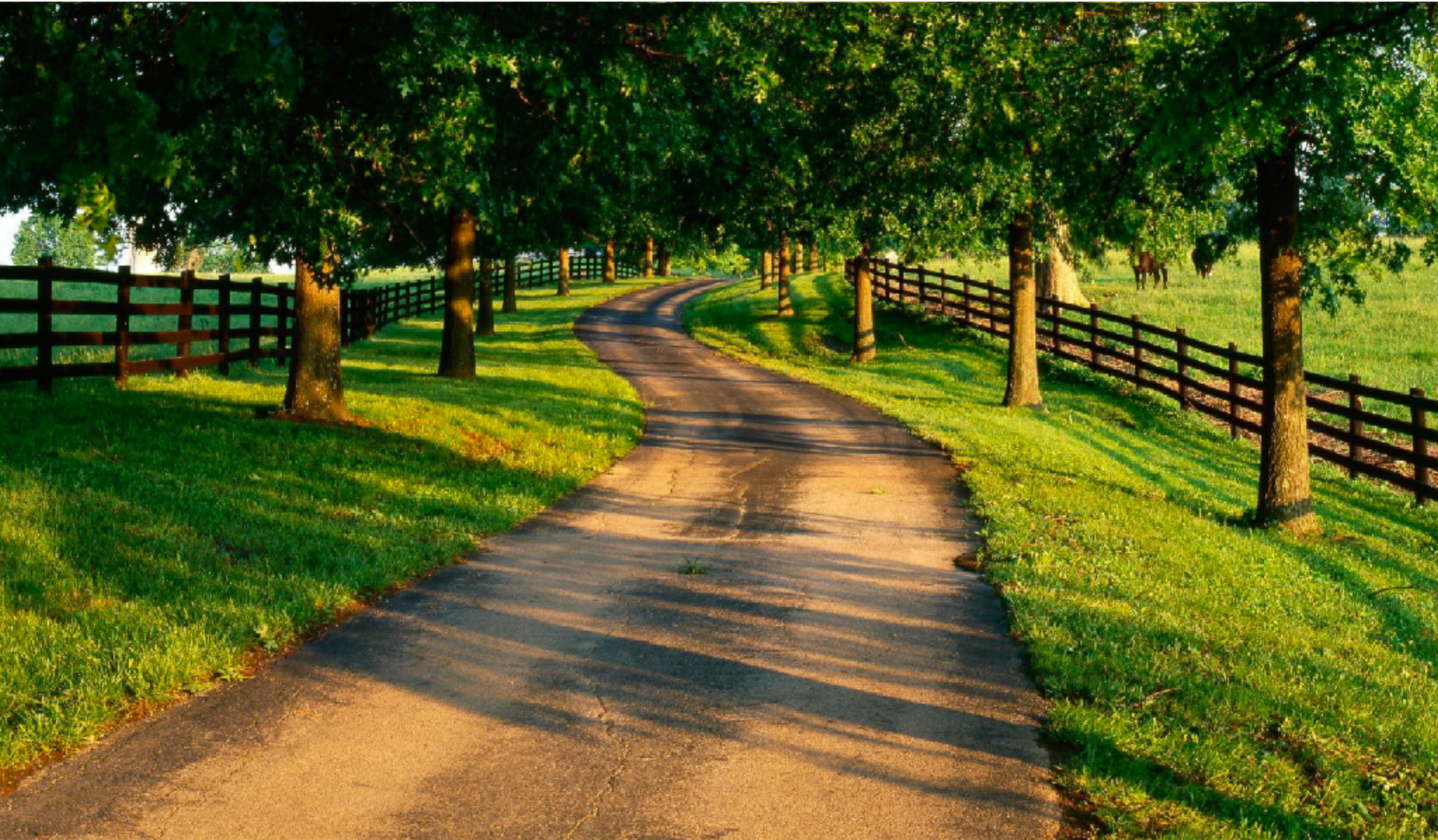
Manfred Mohr, 1971

There's a fuzzy line



Minecraft

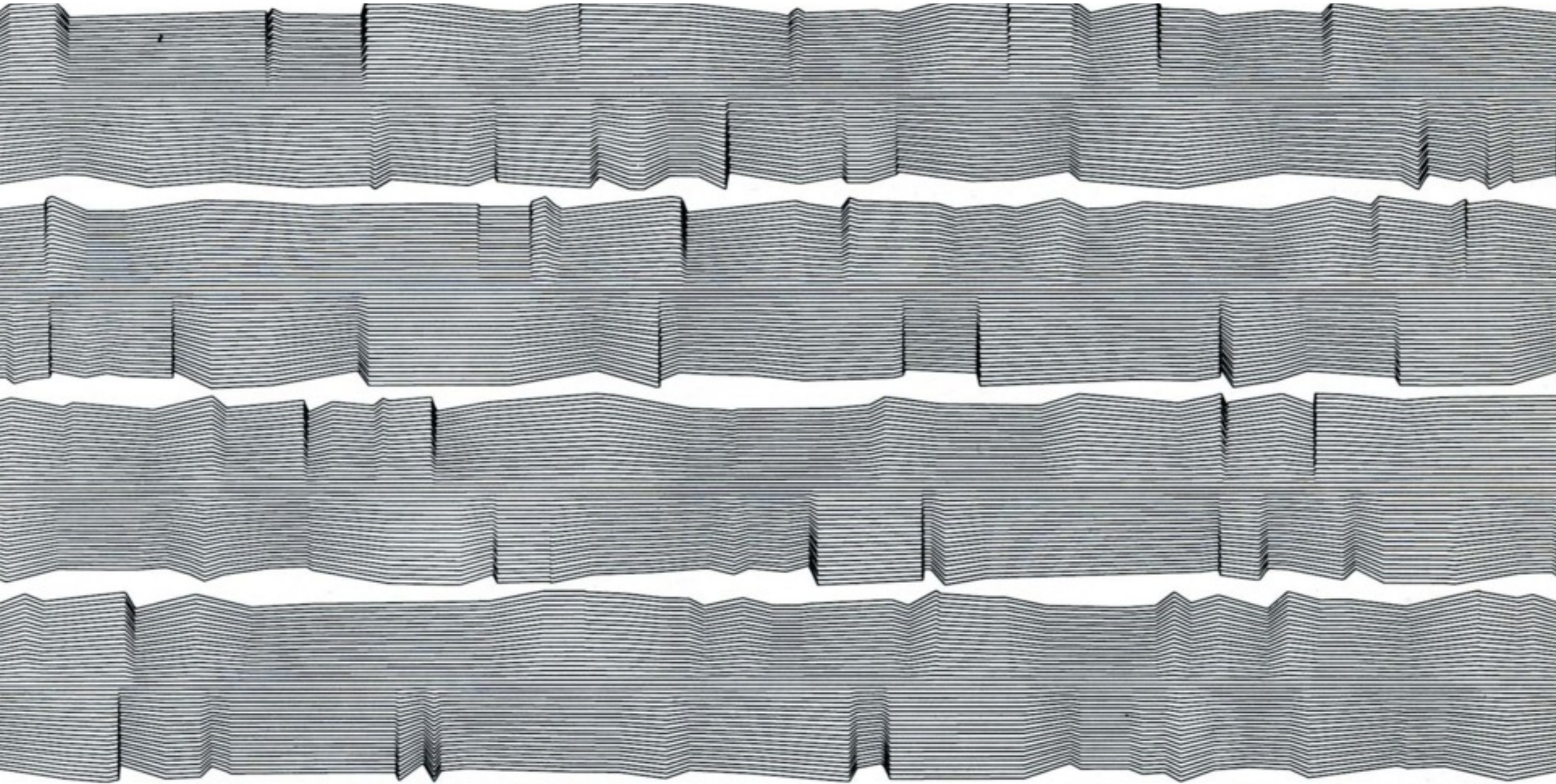
There's a fuzzy line



The Deep Forger

1. More 'Organic' Than Before

1. More 'Organic' Than Before



Manfred Mohr, 1971

1. More 'Organic' Than Before



The Next Rembrandt, ING/Microsoft/TU Delft

2. AI Is Everywhere...

2. AI Is Everywhere...



Google DeepMind vs. Lee Sedol, March 2016

...We're Told To Be Scared...

FUTURE TENSE

THE CITIZEN'S GUIDE TO THE FUTURE.

APRIL 1 2016 7:03 AM

FROM SLATE, NEW AMERICA, AND ASU

What's the Deal With Artificial Intelligence Killing Humans?

Your 101 guide to whether or not computers are going to murder us.



211



161



89

Slate, April 2016

...And Creativity Might Be All We Have Left

Will a robot take your job?

11 September 2015 | Technology

Share

Type your job title into the search box below to find out the likelihood that it could be automated within the next two decades.

About 35% of current jobs in the UK are at high risk of computerisation over the following 20 years, according to a study by researchers at Oxford University and Deloitte.



I am a...

The BBC, September 2015

That's Not Why We
Make Stuff

Creating Makes Us Happy



Bob Ross

That's Not Why We
Read/Listen/Play/Watch Stuff

We connect with and understand people through what and how they create



We also connect and understand each other through these shared experiences

kanye west

Live

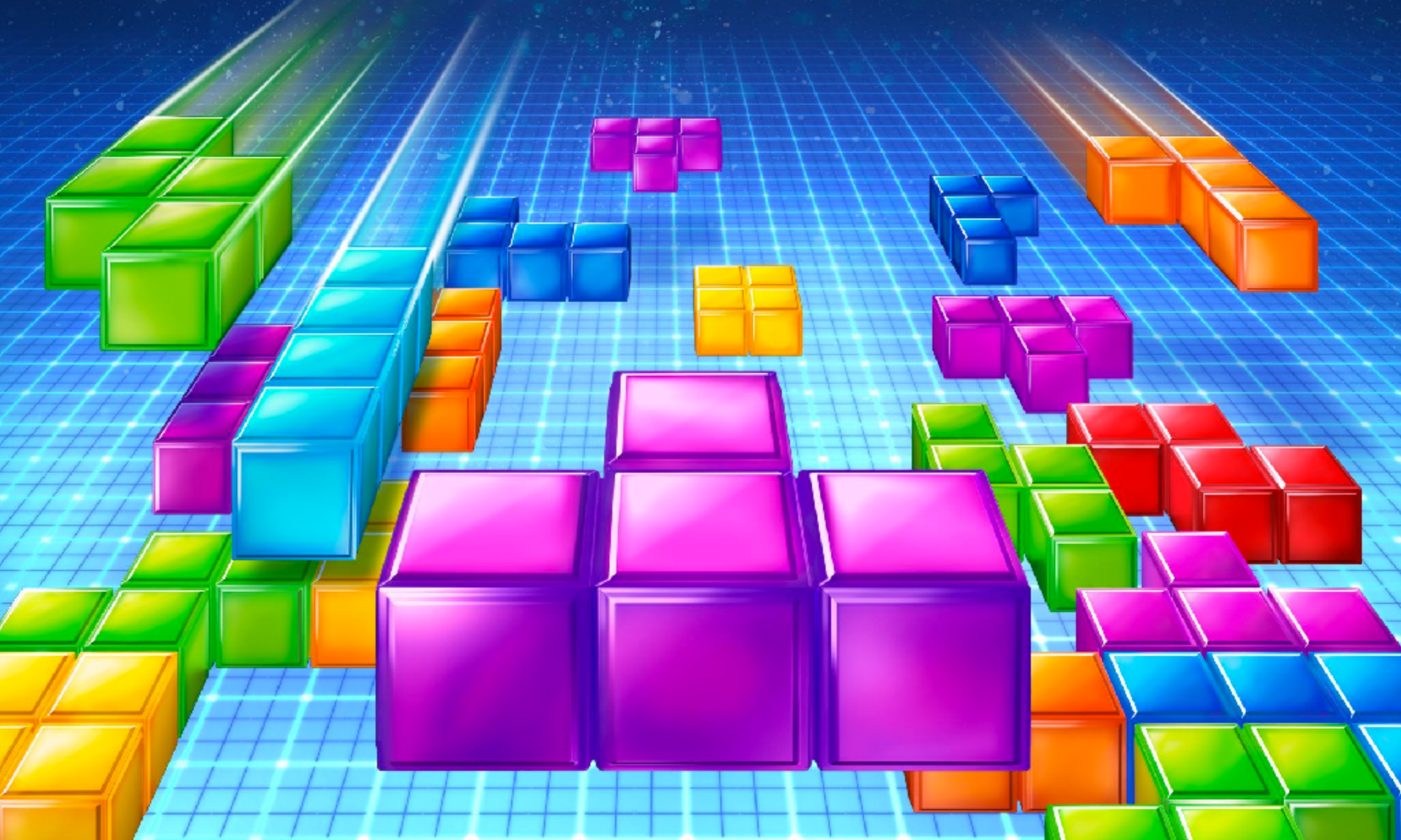
News

Photos

Videos

More options

99 new results



Not *everything* needs an epic backstory



We might find AI we relate to as well,
in a different kind of way



But this human connection is important to
all forms of creative activity




We can complement it with new things, but it
can't ever go away.

Will my iPhone be more
popular than me?



Part II:

Should you renew Game of Thrones for a quintillionth season?

A close-up photograph of a man with short brown hair, smiling broadly and showing his teeth. He is wearing a dark grey sweater. A white speech bubble with a black outline is positioned to the left of his face, containing the text "Good job, buddy". The background is a soft, out-of-focus blue-grey color.

Good job, buddy

Time to relax!



AS SEEN AT 'NEW SCIENTIST LIVE'



GAME OF THRONES:
THE GENERATIVE
BOX SET EDITION

ALL 10^{18} SEASONS!

IN ONE TINY ALGORITHMIC PACKAGE

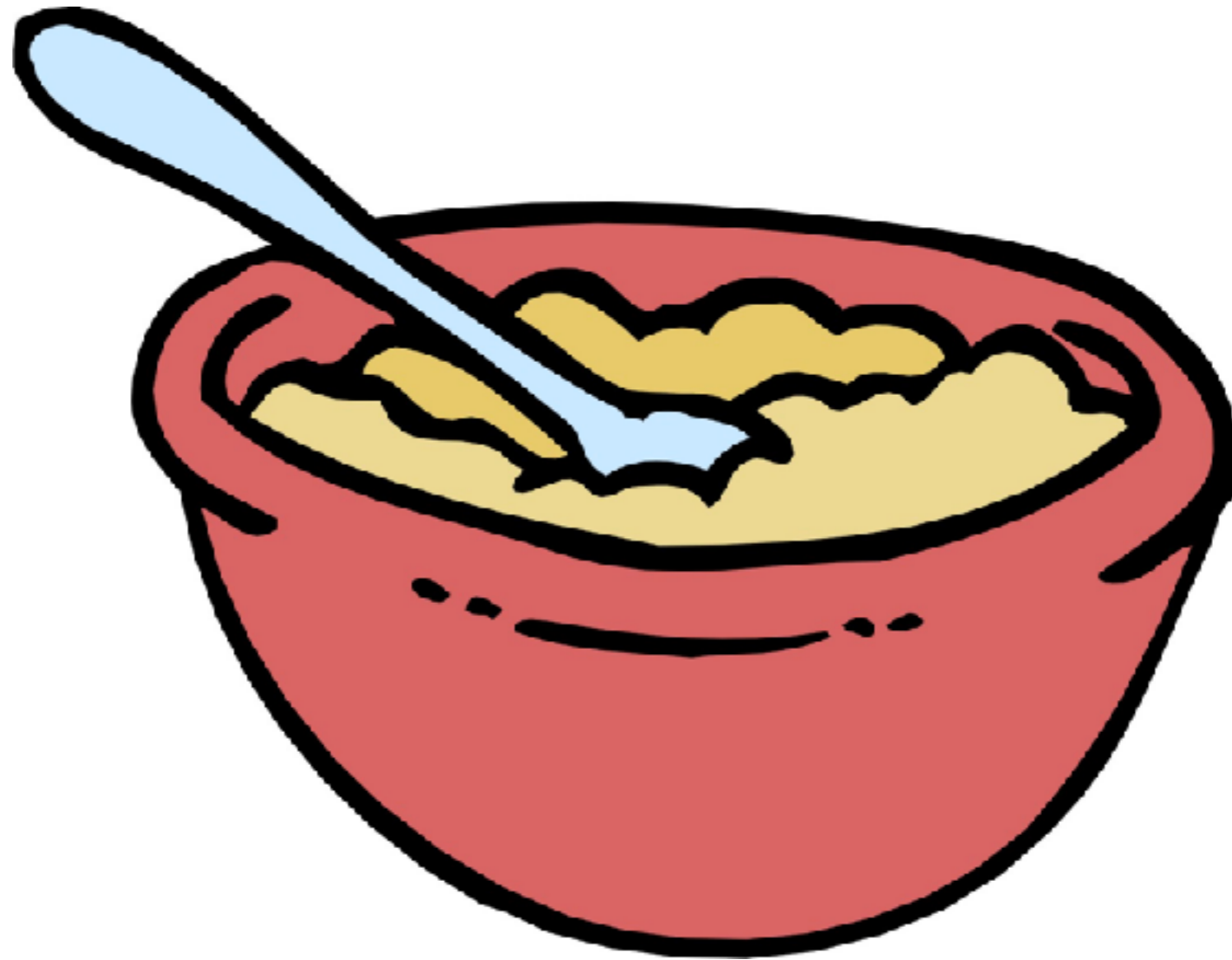
SEND MONEY NOW

Strange New Words

- *Every one is unique!*
- *Endless things to see!*
- *Discover things for the first time!*

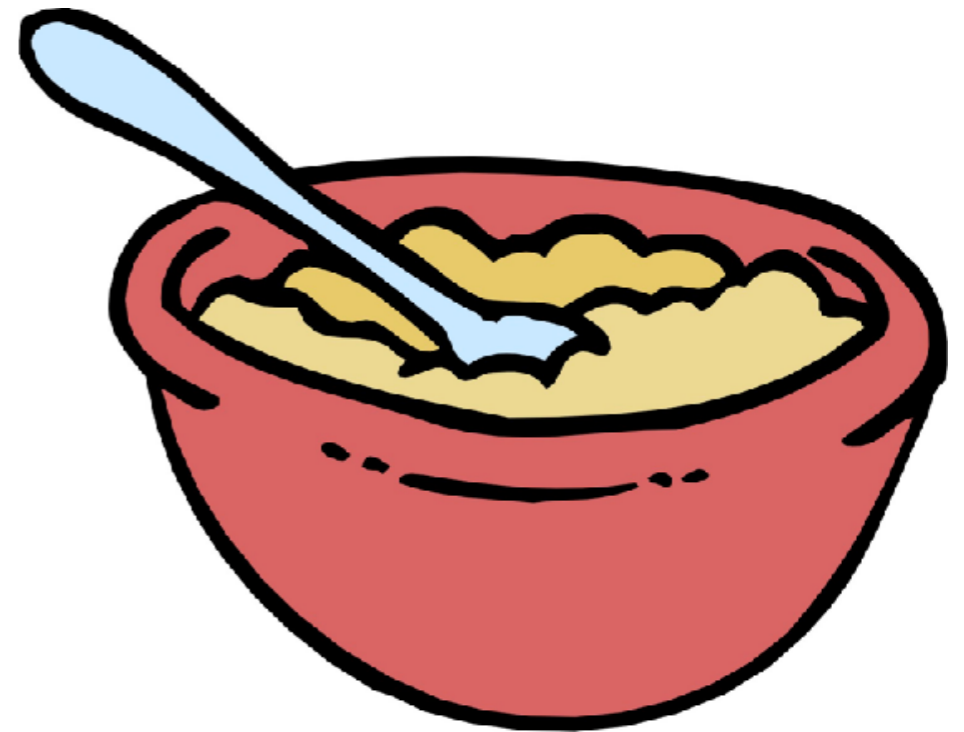
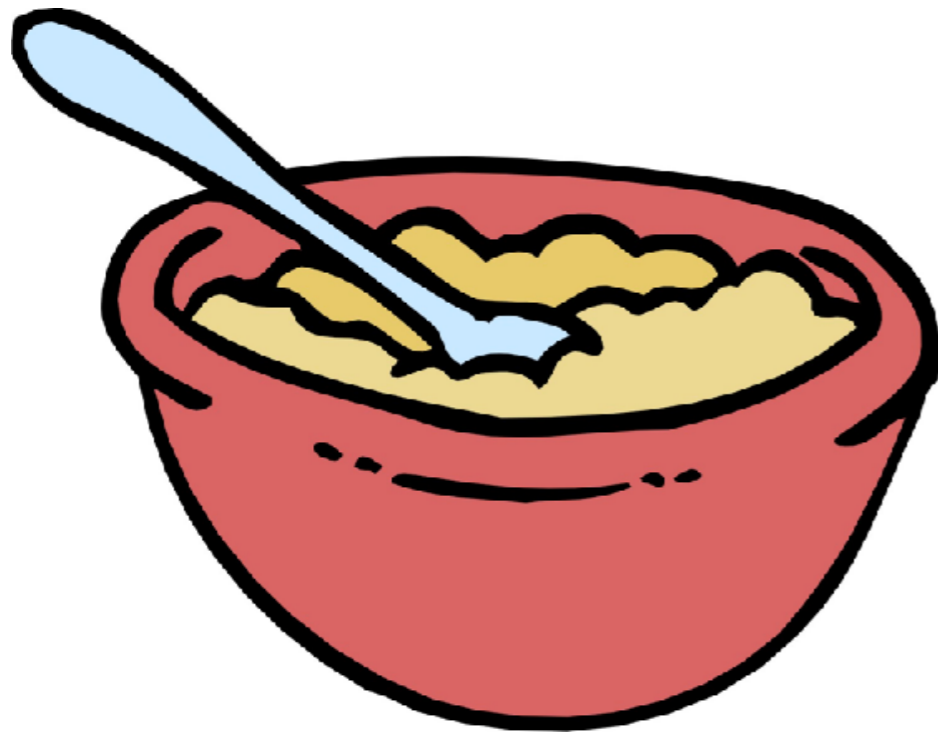
1. Unique

10,000 Bowls Of Oatmeal



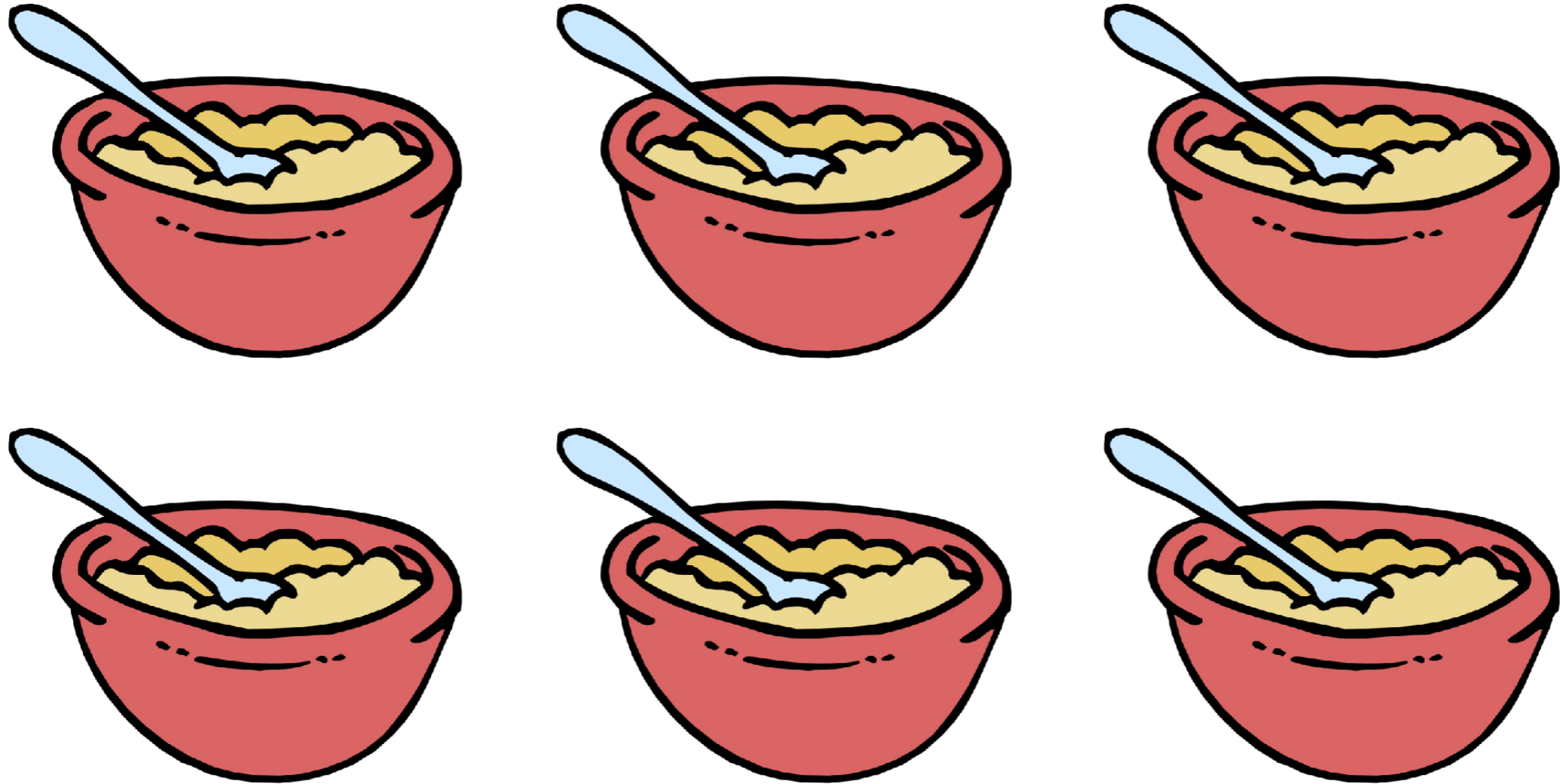
(@galaxykate)

10,000 Bowls Of Oatmeal



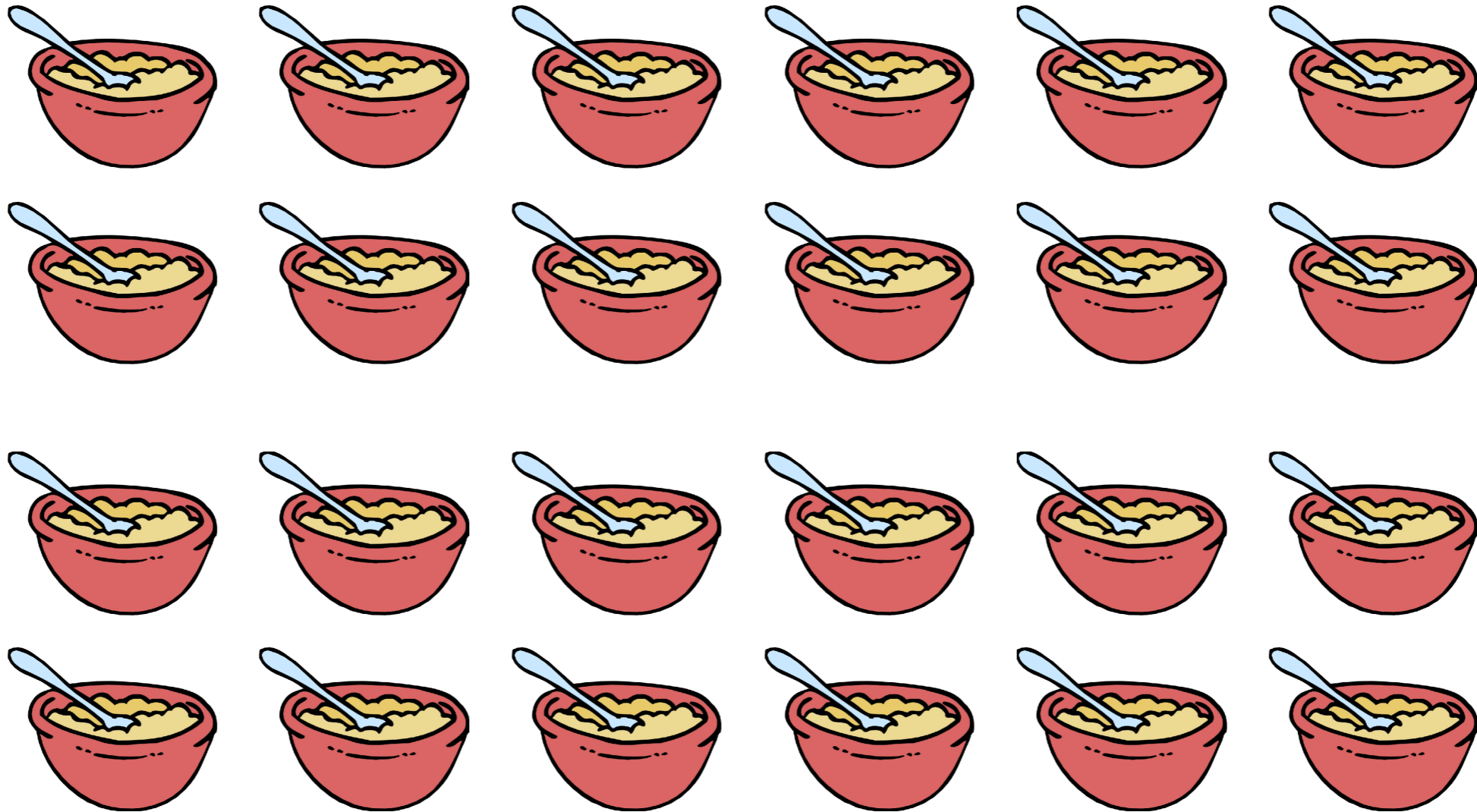
(@galaxykate)

10,000 Bowls Of Oatmeal



(@galaxykate)

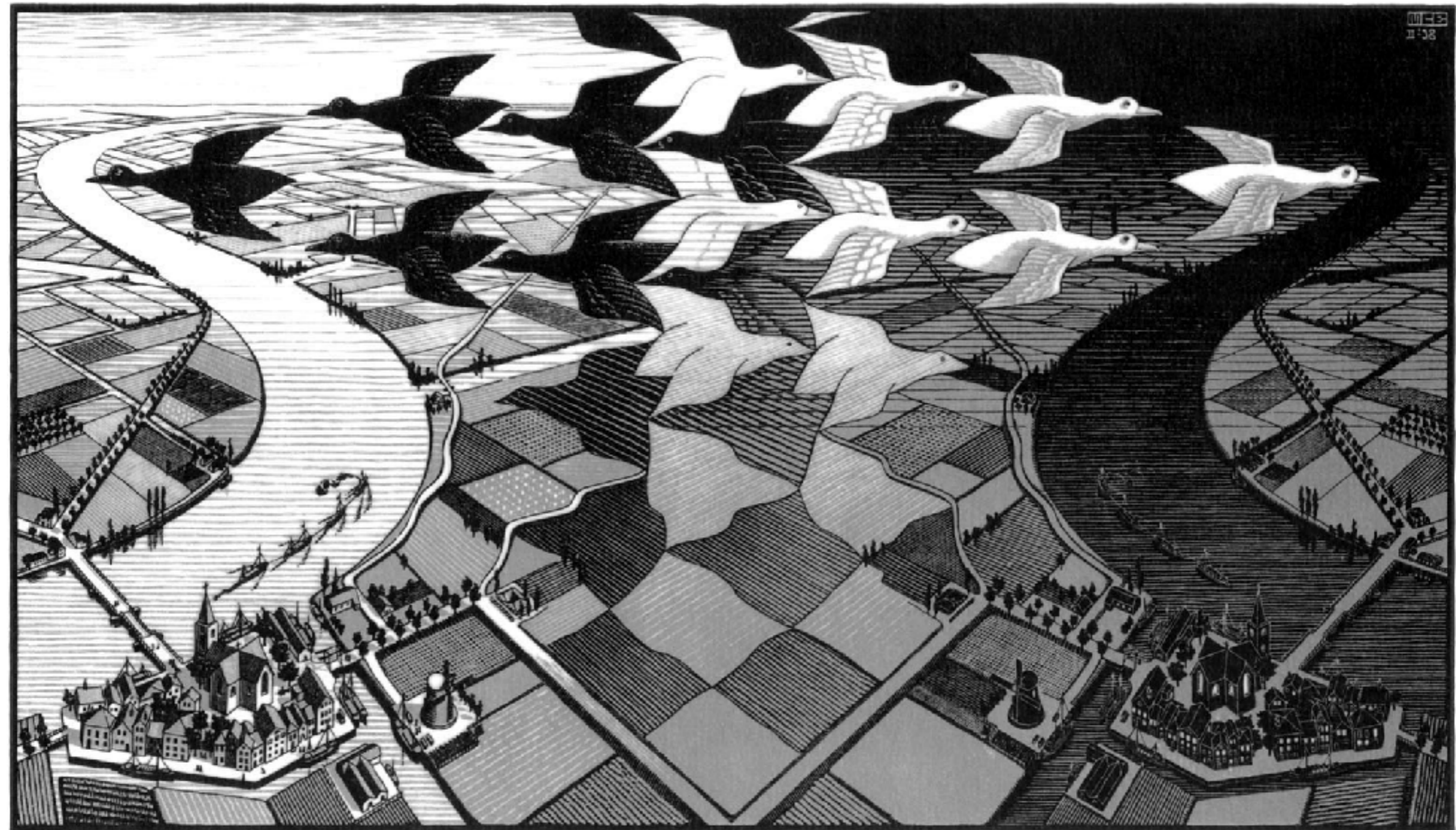
10,000 Bowls Of Oatmeal



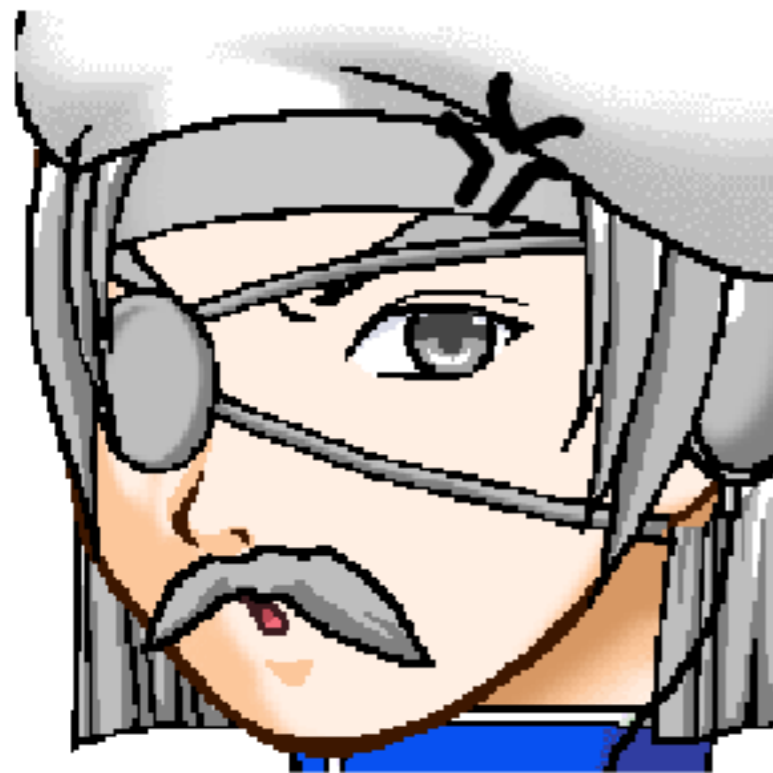
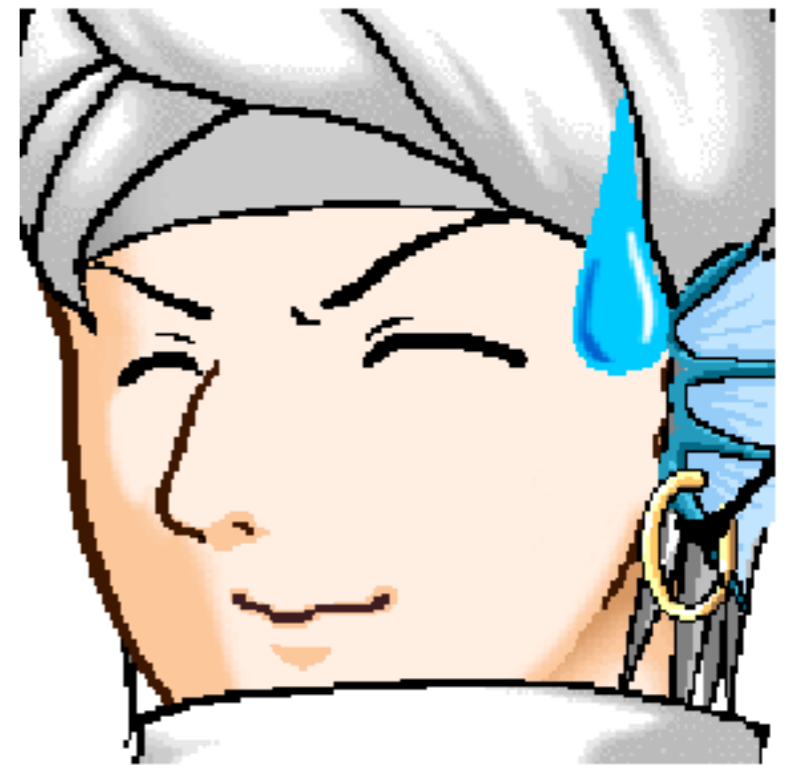
(@galaxykate)

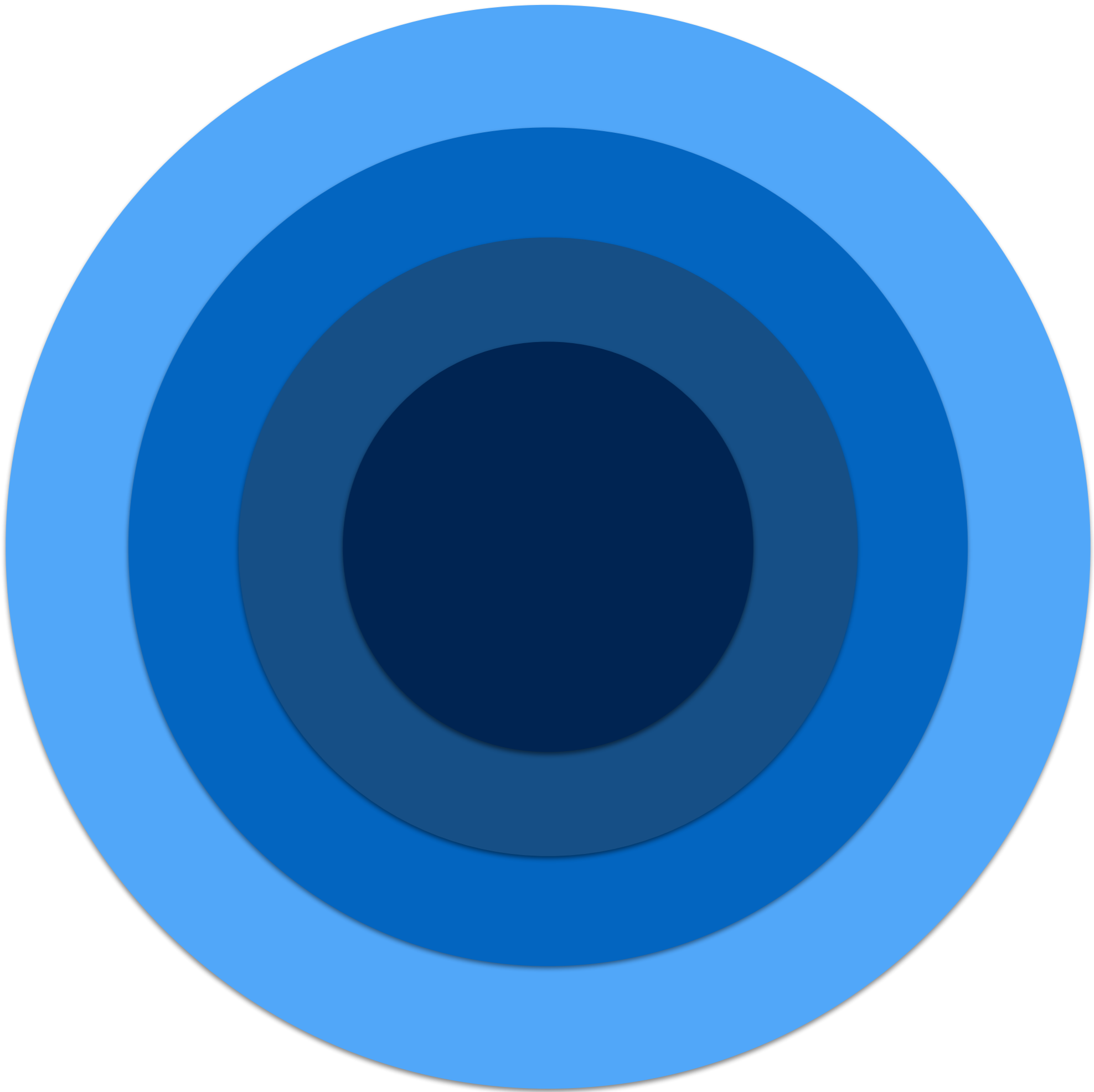
2. Endless

We're hardwired to detect patterns



Smaller On The Inside



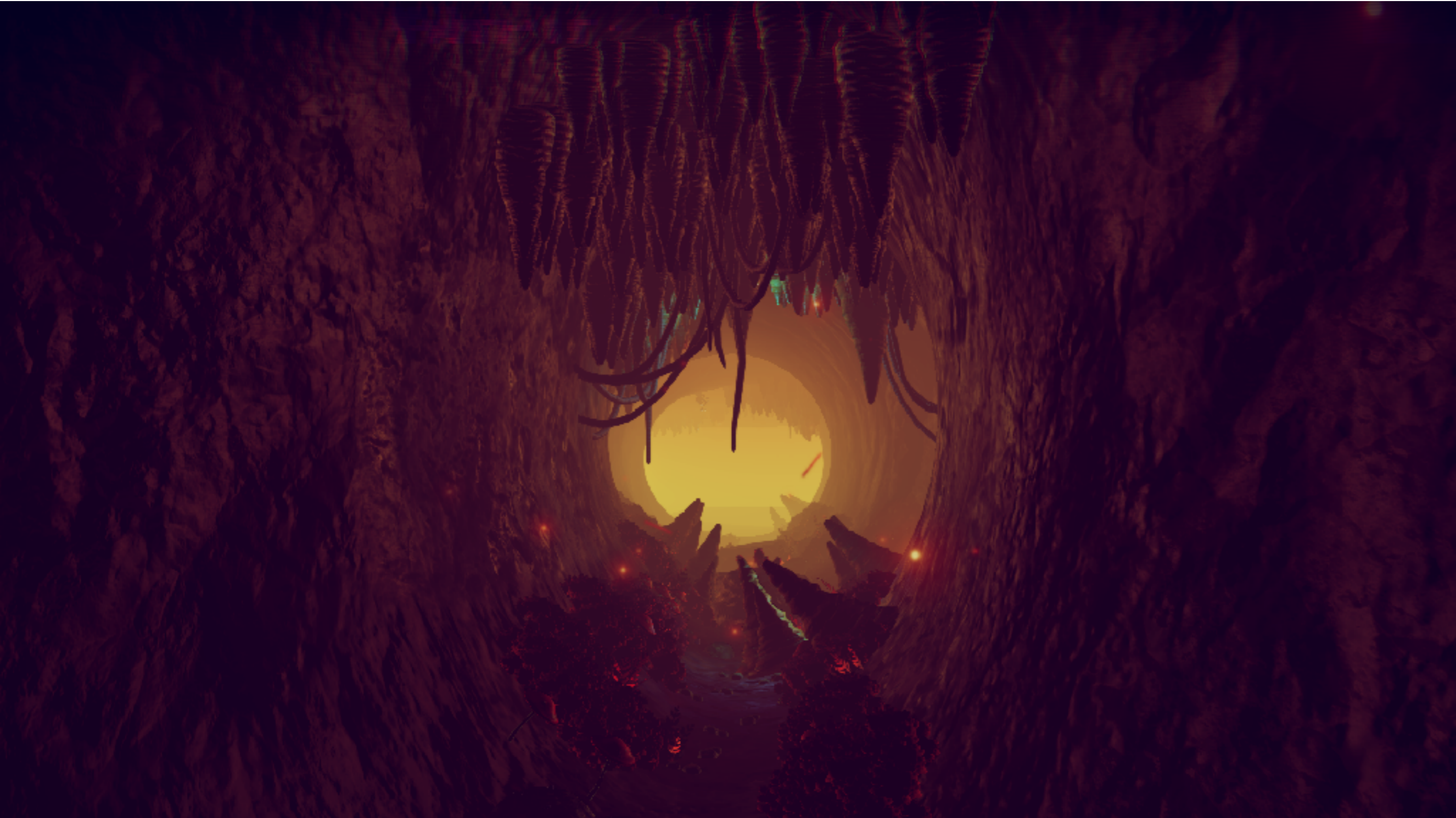


3. Discovery

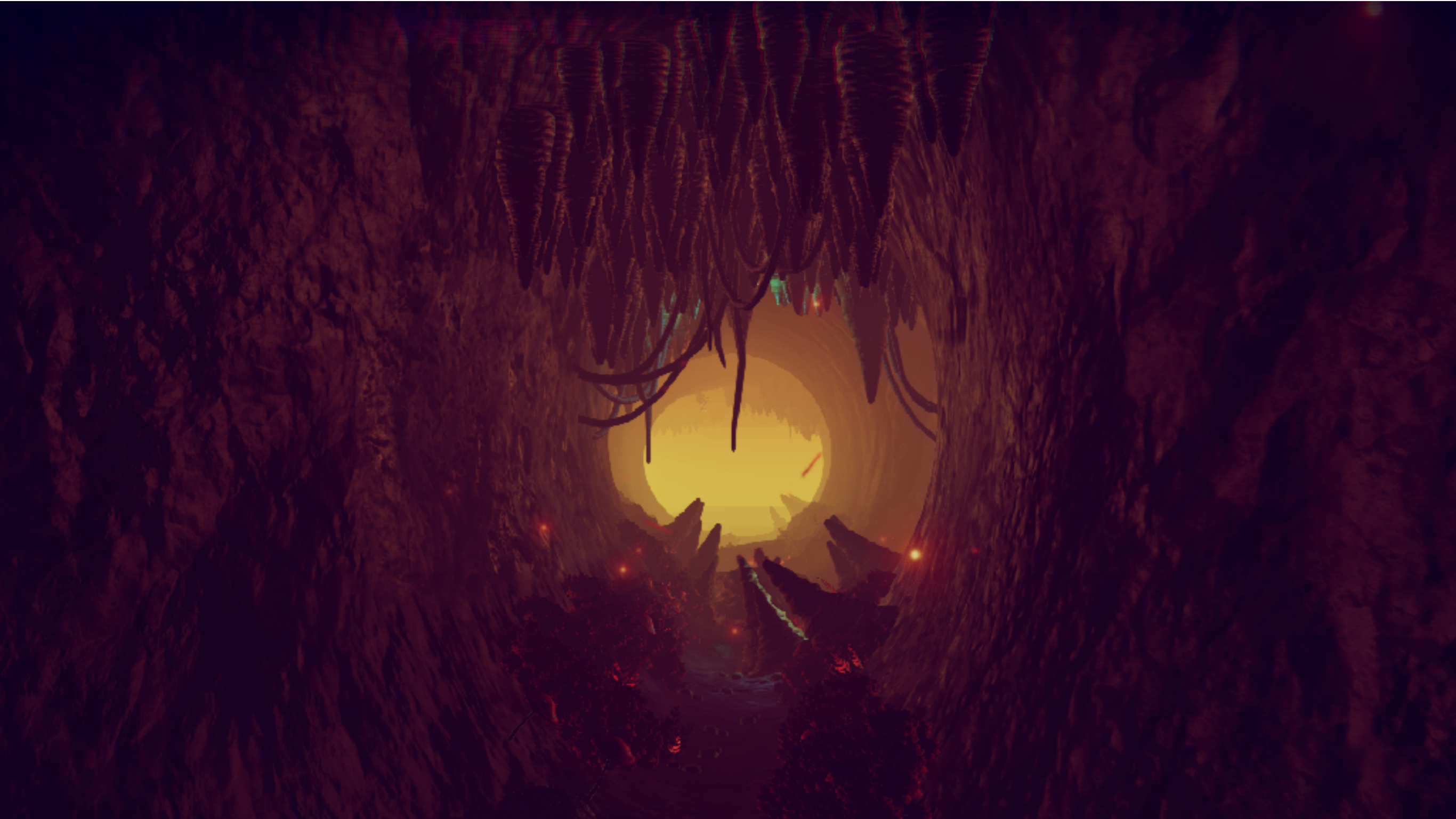
Discovery is an appealing aesthetic



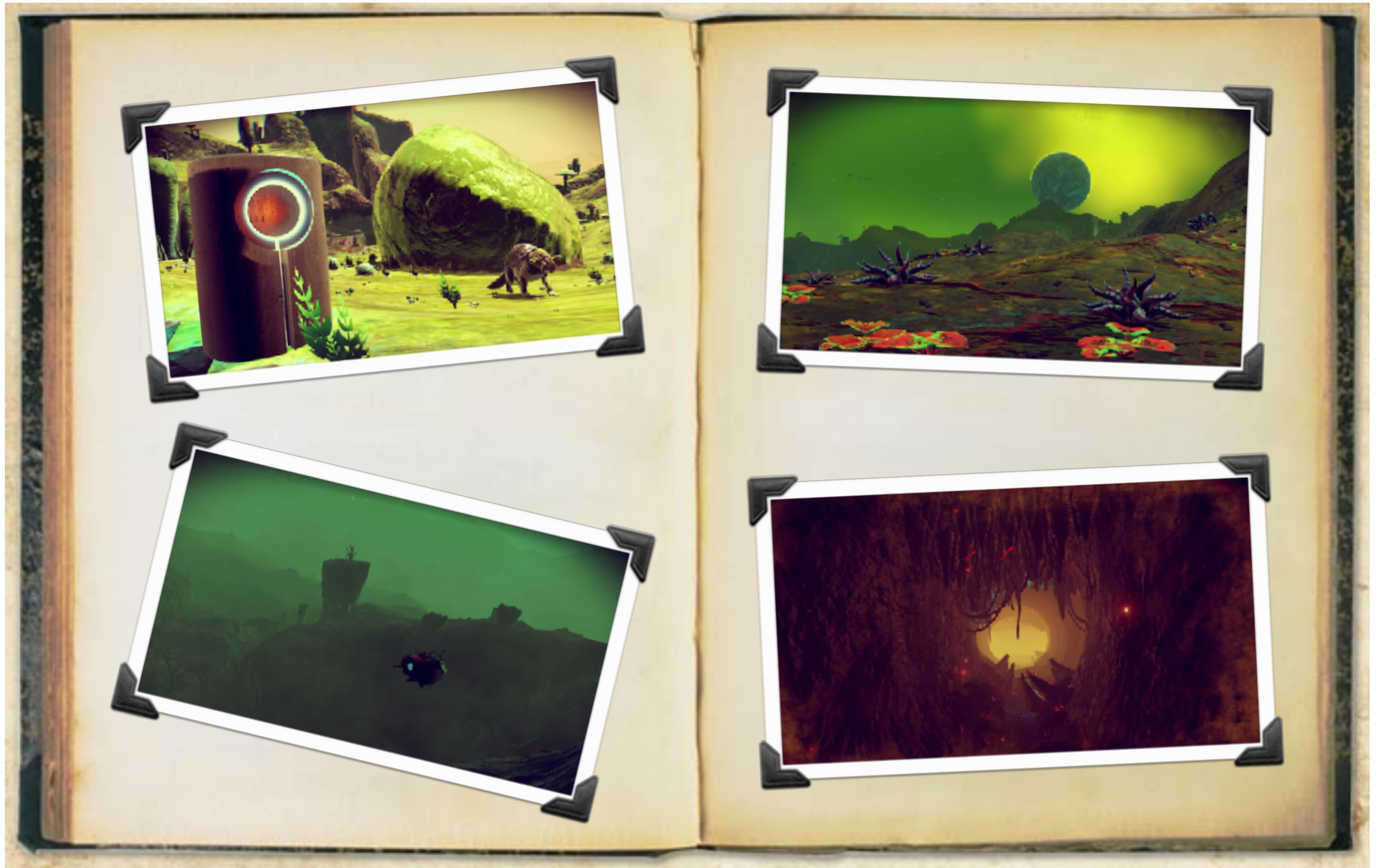
But discovery requires context...



...and it requires variation



If everything is special, then nothing is



AS SEEN AT 'NEW SCIENTIST LIVE'



GAME OF THRONES:
THE GENERATIVE
BOX SET EDITION

ALL 10^{18} SEASONS!

IN ONE TINY ALGORITHMIC PACKAGE

SEND MONEY NOW

Should you renew Game
of Thrones for a
quintillionth season?



Part III:

How do you make an infinite birthday present?

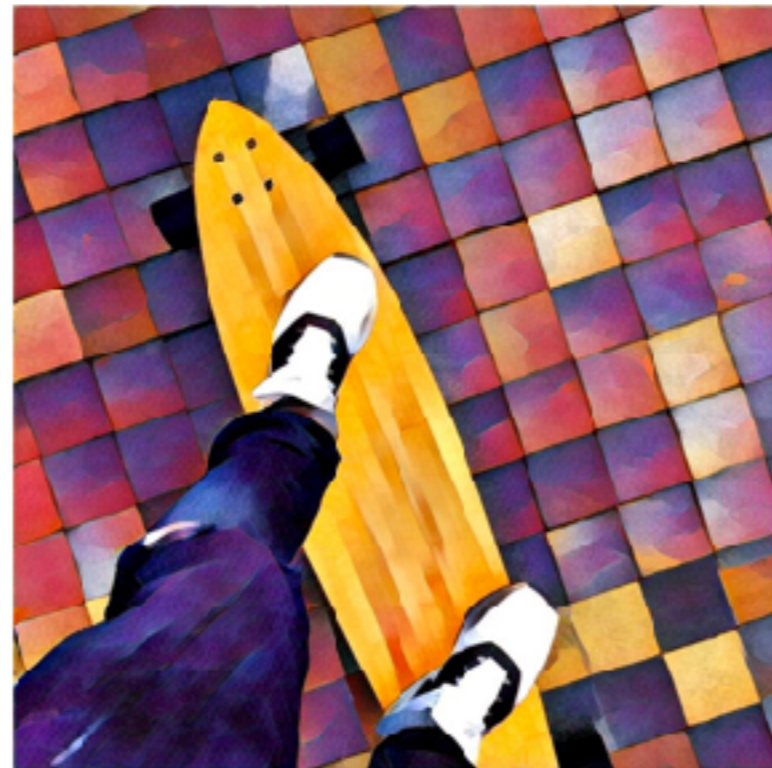
New technology is often inaccessible



But it doesn't stay that way forever



Access lets technology grow and evolve



We need you to join us!



Cheap Bots, Done Quick!

Tracery JSON

```
{  
  "origin": ["The #animal# and #animal#", "The #adjective# #animal#"],  
  "animal": ["Lion", "Owl", "Centaur", "Labradoodle"],  
  "adjective": ["Laughing", "Dancing", "Happy"]  
}
```

The Dancing Lion



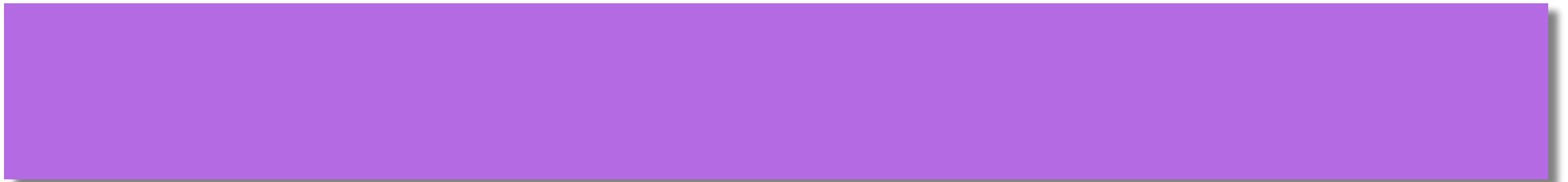
TWEET

www.cheapbotsdonequick.com

“pub-name” : [“The #animal# and #animal#”,
“The #adjective# #animal#”]

“animal” : [“Lion”, “Owl”, “Centaur”, “Labradoodle”]

“adjective” : [“Laughing”, “Dancing”, “Happy”]



“pub-name” : [“The #animal# and #animal#”,
“**The #adjective# #animal#**”]

“animal” : [“Lion”, “Owl”, “Centaur”, “Labradoodle”]

“adjective” : [“Laughing”, “Dancing”, “Happy”]

The #adjective# #animal#

“pub-name” : [“The #animal# and #animal#”,
“The #adjective# #animal#”]

“animal” : [“Lion”, “Owl”, “Centaur”, “Labradoodle”]

“adjective” : [“Laughing”, “Dancing”, “Happy”]

The #adjective# #animal#

“pub-name” : [“The #animal# and #animal#”,
“The #adjective# #animal#”]

“animal” : [“Lion”, “Owl”, “Centaur”, “Labradoodle”]

“adjective” : [“Laughing”, “**Dancing**”, “Happy”]

The Dancing #animal#

“pub-name” : [“The #animal# and #animal#”,
“The #adjective# #animal#”]

“animal” : [“Lion”, “Owl”, “Centaur”, “Labradoodle”]

“adjective” : [“Laughing”, “Dancing”, “Happy”]

The Dancing Lion



The Dancing
Lion



Tiny Space Adventure

@TinyAdv

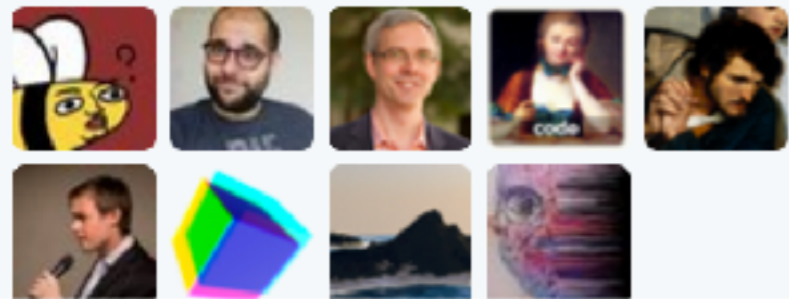
Tiny space adventures by @galaxykate
Using Tracery, and hosted by
CheapBotsDoneQuick, by @v21
sourcecode here:

pastebin.com/YtZnzZ0

Joined January 2016

 Tweet to Tiny Space Advent...

9 Followers you know



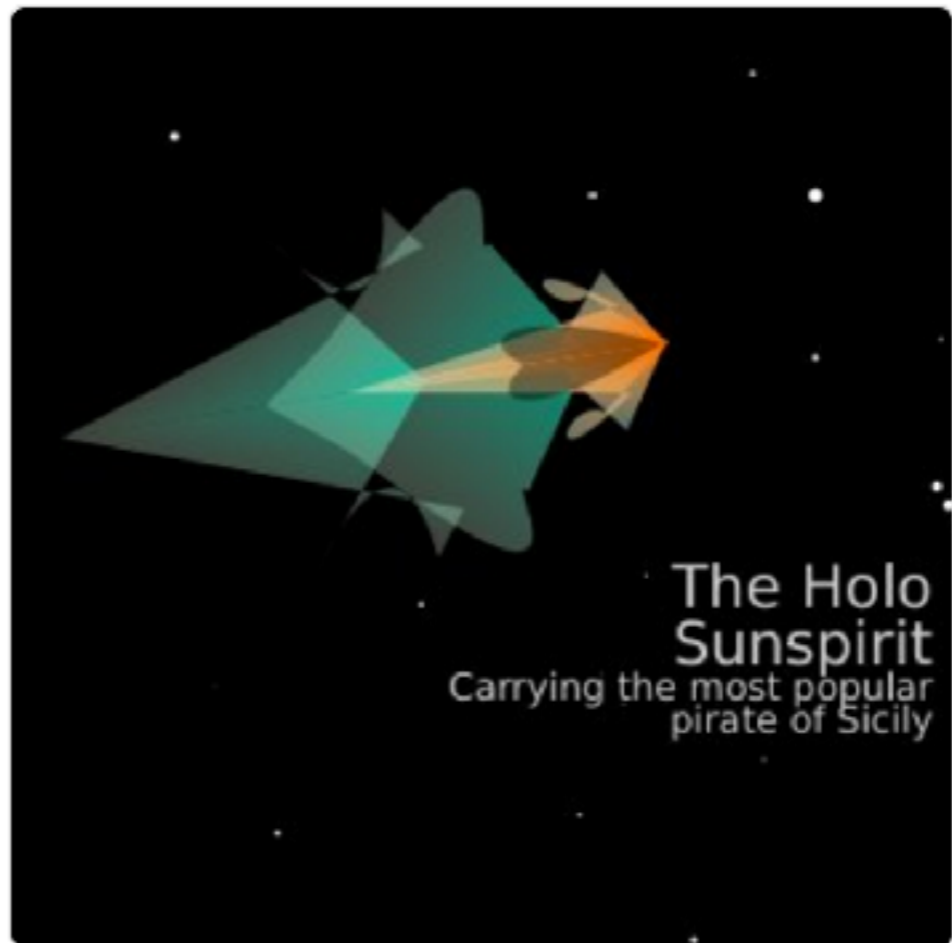
TWEETS
864

FOLLOWERS
223

Tweets Tweets & replies Media



Tiny Space Adventure @TinyAdv · 2h



How do you make an
infinite birthday present?

cheapbotsdonequick.com

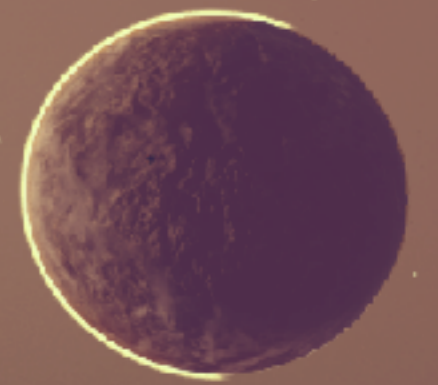
A Short Moment

- Software can't replace humans completely - humans are the reason why we create anything!
- We're going to enjoy lots of cool computer-made things in the future - but we're going to have to learn some new lessons too.
- Making things that make things is the new, cool art form - and you can be a part of it!

[www.gamesbyangelina.org/ns/
<yourcode>](http://www.gamesbyangelina.org/ns/<yourcode>)

cheapbotsdonequick.com

www.procjam.com



Twitter - @mtrc