

# THE FRACTAL HYPOTHESIS

MATT HOPE  
PART ONE

# WELCOME

THE COUNTRY KID AND CITY FOLK

AN ILLEGAL COUNTRY

THE INTERNET IS AS GOOD AS SCHOOL

ETHICAL COMPLACENCY

THE SCIENCE OF TOGETHERNESS FOR THE WIN

**I'M SO EXCITED!!!!  
I MIGHT PASS OUT**

# TEACH A PARADOX

WHAT IS REALITY?  
YOU ALREADY KNOW  
ADVENTURE ART PRESENTATION  
ADVENTURE STATION



**9 PARTS**

**ONE**

# THE PARADOX

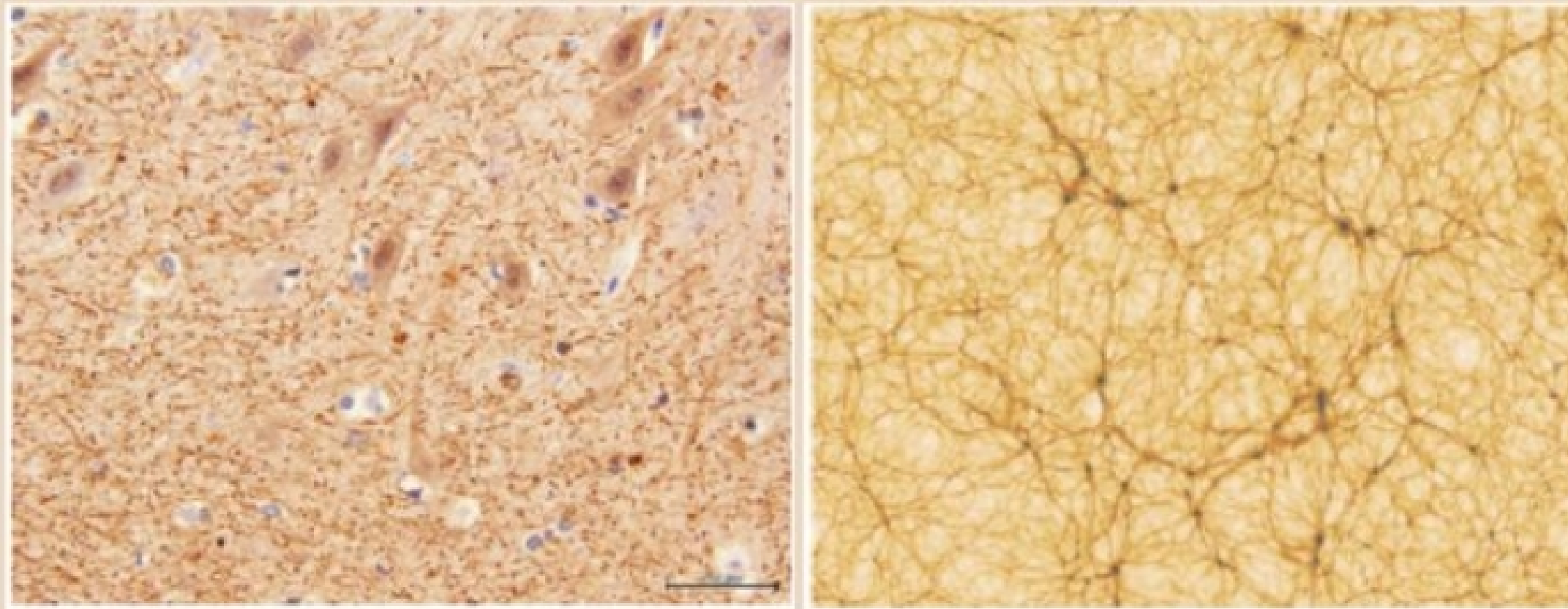
OUR MATE KURT  
TRUTH AND THE RAINBOW  
THE COLONISATION OF TRUTH  
THE NULL HYPOTHESIS

**TWO**

# REALITY IS A PATTERN

WHAT TYPE OF PATTERN

FRACTAL VIDEO

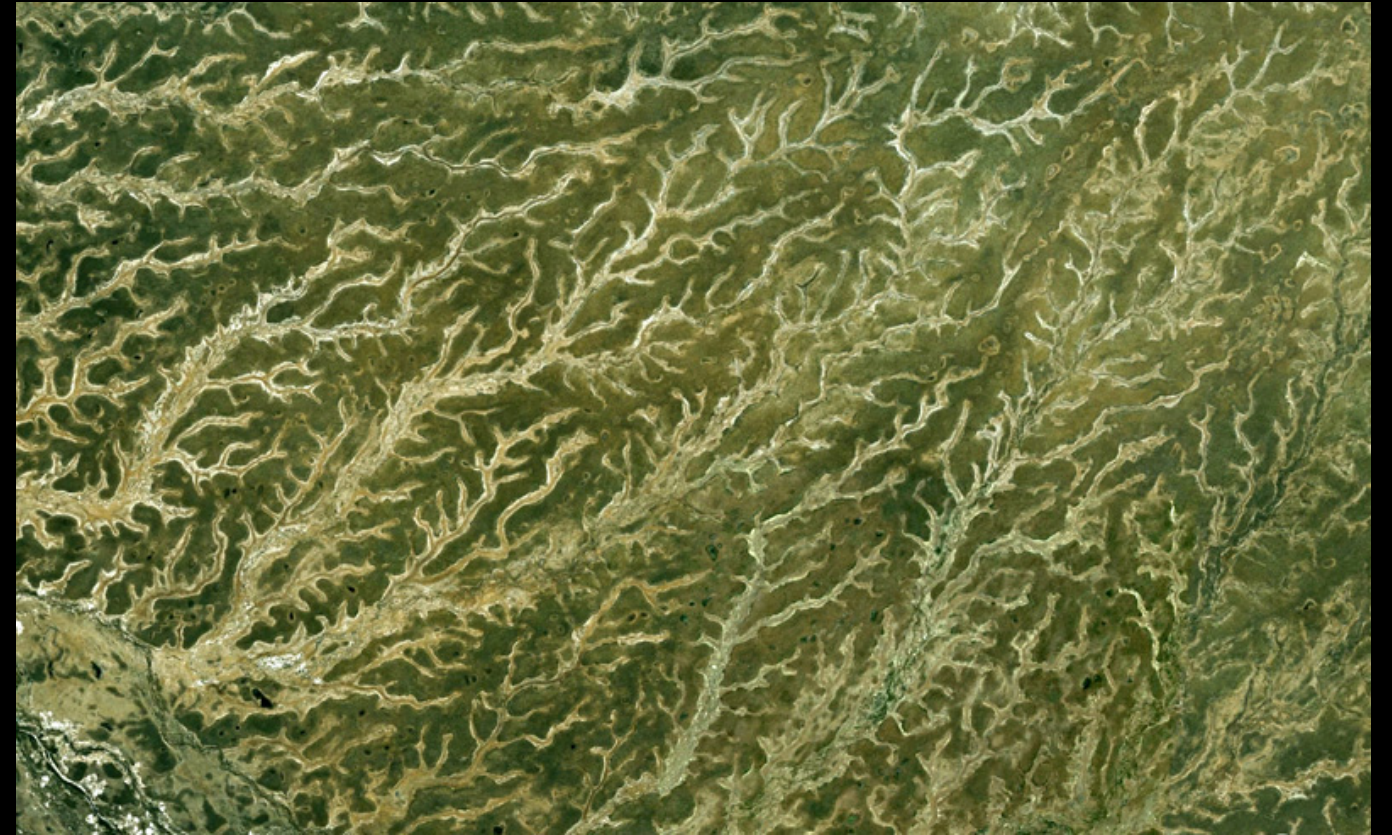






PEBBLE OR MOUNTAIN?





RIVER OR STONE?





PUDDLE OR RIVER?

**YOU CONTAIN FRACTALS**



[Front Physiol.](#) 2010, 1: 15. Published online 2010 Jun 6. Prepublished online 2010 May 26.

doi: [10.3389/fphys.2010.00015](https://doi.org/10.3389/fphys.2010.00015)

PMCID: PMC3059969 | PMID: [21423358](https://pubmed.ncbi.nlm.nih.gov/21423358/)

# Fractals in the Nervous System: Conceptual Implications for Theoretical Neuroscience

[Gerhard Werner](#)<sup>1,\*</sup>

► [Author information](#) ► [Article notes](#) ► [Copyright and License information](#) [PMC Disclaimer](#)

## Abstract

[Go to: ►](#)

This essay is presented with two principal objectives in mind: first, to

**THREE**

# WHY A FRACTAL?

IF A FRACTAL CAME AFTER THE BIG BANG, WHAT WAS BEFORE?

0

ZERO AND REALITY

ZERO IS UNSTABLE AND MIGHT BE CREATING INFINITE COPIES OF ITSELF

ZERO = FRACTAL CREATOR

FRACTAL = PARADOX OF PATTERNS

MULTIVERSE

# 0

## ZERO ENERGY UNIVERSE HYPOTHESIS

The laws of physics demand the existence of something called 'negative energy'.

To help you get your head around this weird but crucial concept, let me draw on a simple analogy. Imagine a man wants to build a hill on a flat piece of land. The hill will represent the universe. To make this hill he digs a hole in the ground and uses that soil to dig his hill. But of course he's not just making a hill—he's also making a hole, in effect a negative version of the hill. The stuff that was in the hole has now become the hill, so it all perfectly balances out. This is the principle behind what happened at the beginning of the universe. When the Big Bang produced a massive amount of positive energy, it simultaneously produced the same amount of negative energy. In this way, the positive and the negative add up to zero, always. It's another law of nature. So where is all this negative energy today? It's in the third ingredient in our cosmic cookbook: it's in space. This may sound odd, but according to the laws of nature concerning gravity and motion—laws that are among the oldest in science—space itself is a vast store of negative energy. Enough to ensure that everything adds up to zero

0

ZERO AND REALITY

ZERO IS UNSTABLE AND MIGHT BE CREATING INFINITE COPIES OF ITSELF

ZERO = FRACTAL CREATOR

FRACTAL = PARADOX OF PATTERNS

MULTIVERSE



**FOUR**

# PROVING BOTH

PROVING THINGS THAT CAN'T BE PROVEN TRUE

FINDING THE EVIDENCE

THE NULL HYPOTHESIS

0.000001% IT'S RANDOM CHANCE

BRIEF MSET

**MANDLEBROT SET VIDEO**

**MARTH**

# MARTH

$$2+2=4$$

$$4=2+2$$

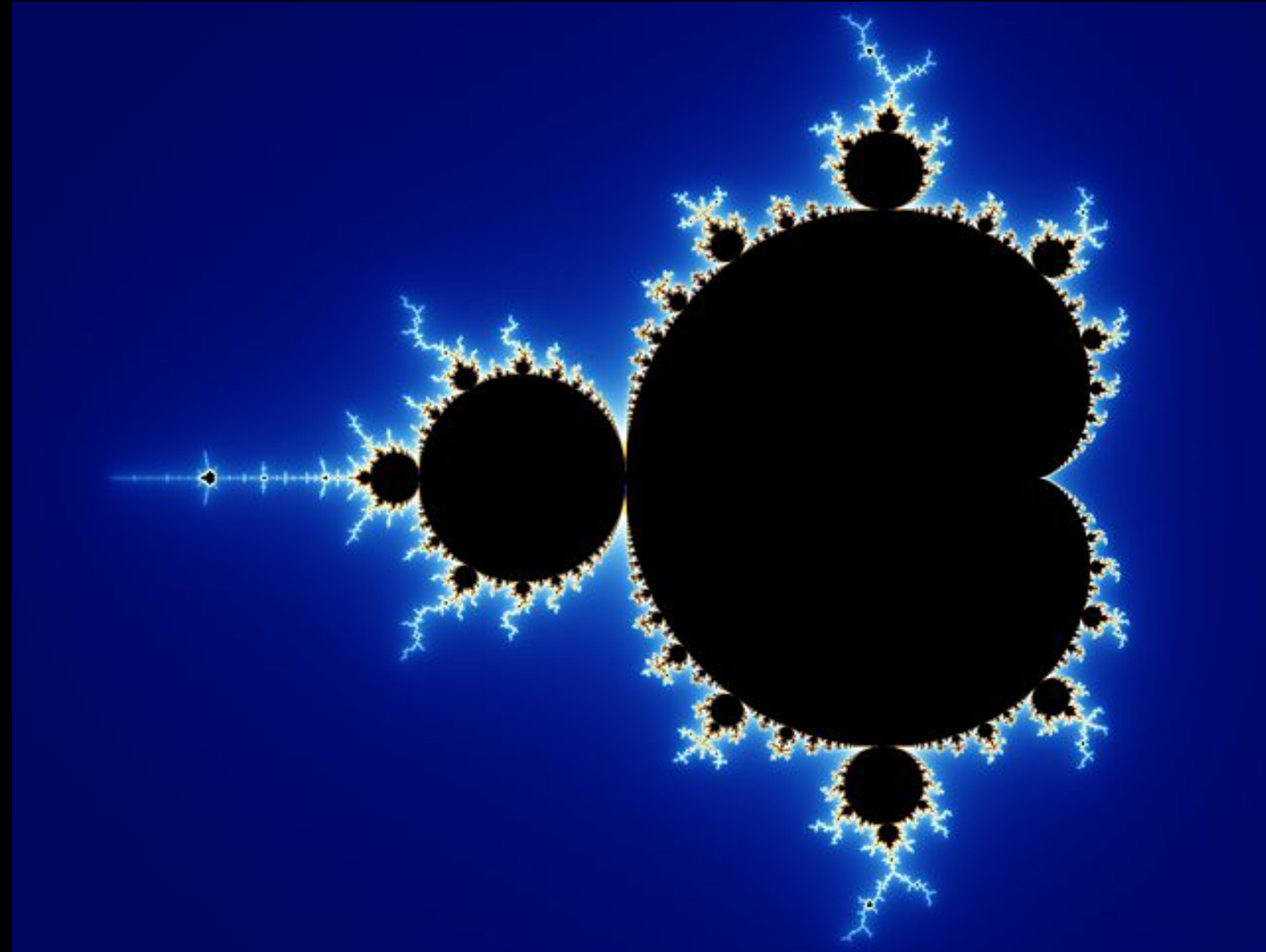
# MARTH

$$2+2=4$$
$$4=2+2$$

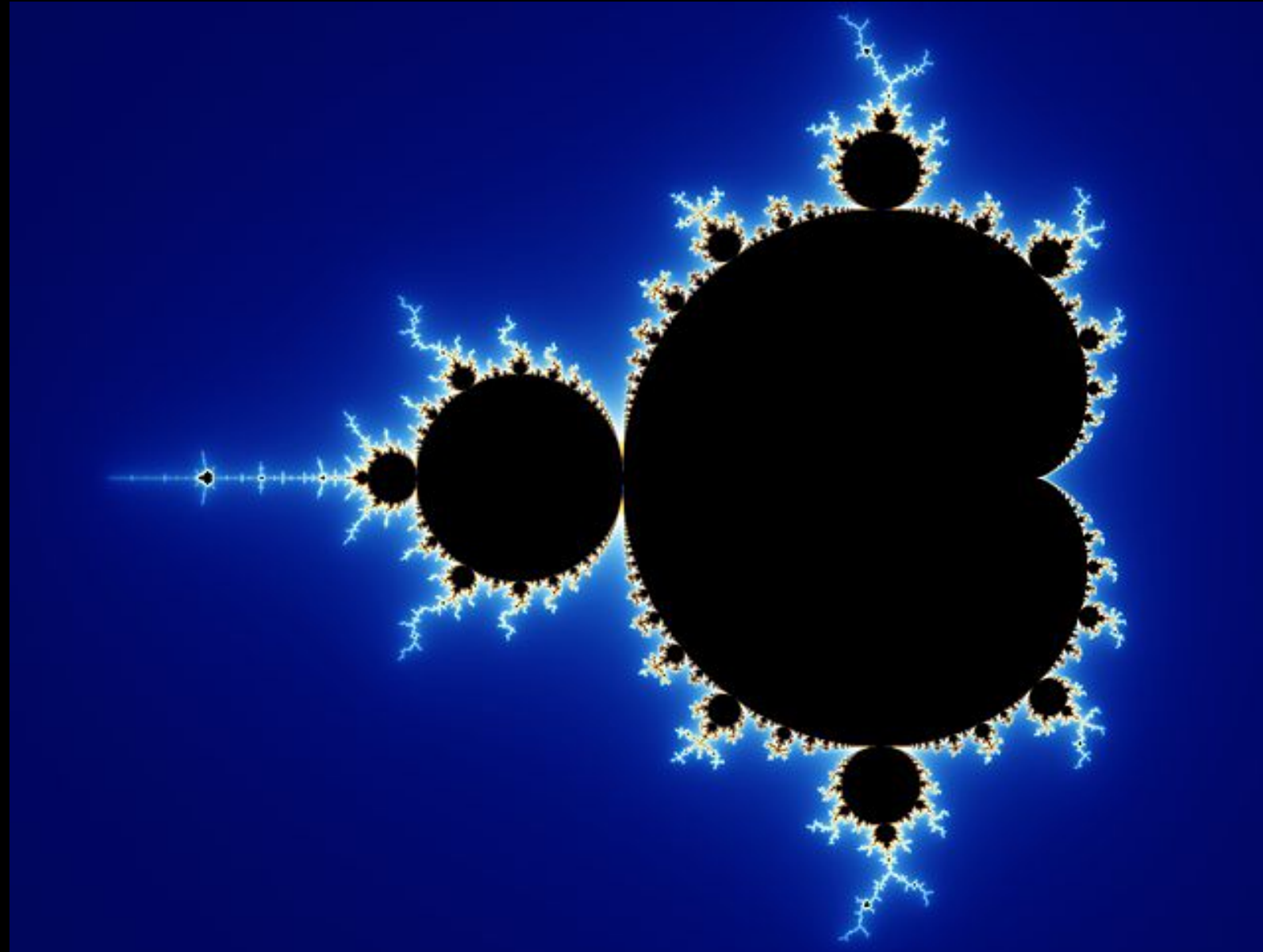
$$e^{i\pi} + 1 = 0$$

$$z_{n+1} = z_n^2 + c$$

**MARTH**







$$z_{n+1} = z_n^2 + c$$

# BUILD A SUPER EQUATION

BASICALLY THE 'MEW' EQUATION

ALL LEVEL 99 NUMBERS

EMPTY SPACE, NOT SO EMPTY (VIDEO)

BRANCHES OF PHYSICS NOT ATOMS (VIDEO)

ZERO = TREE/CYCLE

FRACTAL = BRANCH

US = LEAF

**FIVE**

# PROOF WITH BEAUTY

DEADPOOL AND BARBIE  
FINDING THE SCRIPT

IMAGINE SEEING THE BARCODE

# EPIC ART OR SPIRITUAL EXPERIENCE

BEAUTY

# PROOF WITH BEAUTY

IT NEEDS TO BE DONE THROUGH SCIENCE  
CAN'T JUST BE US BECAUSE WE DON'T UNDERSTAND MATH  
LOTS OF EQUATIONS - SOME SORT OF OBJECTIVE MEASURE  
IN A BRAIN SCANNER - MRI - AND VIA RESEARCH  
SEE THE PART OF US WHICH LOVES ART

# PROOF WITH BEAUTY

MOST BEAUTIFUL EQUATION VIDEO

[Published: 05 March 2014](#)

# Equations are art inside a mathematician’s brain

[Clara Moskowitz](#)

[Nature](#) (2014) | [Cite this article](#)

285 Accesses | 154 Altmetric | [Metrics](#)

**A brain area associated with emotional reactions to beauty activates when mathematicians view especially pleasing formulas.**

*An article by Scientific American*



Euler’s formula, linking the numbers  $i$ ,  $\pi$  and  $e$ , is so revered that some mathematicians, such as Xander Henderson of the University of Nevada in Reno, have had it tattooed on their bodies. Credit: Xander Henderson / yozh.org

Download PDF 

**Sections**

[Additional information](#)

[Related links](#)

[Rights and permissions](#)

[About this article](#)



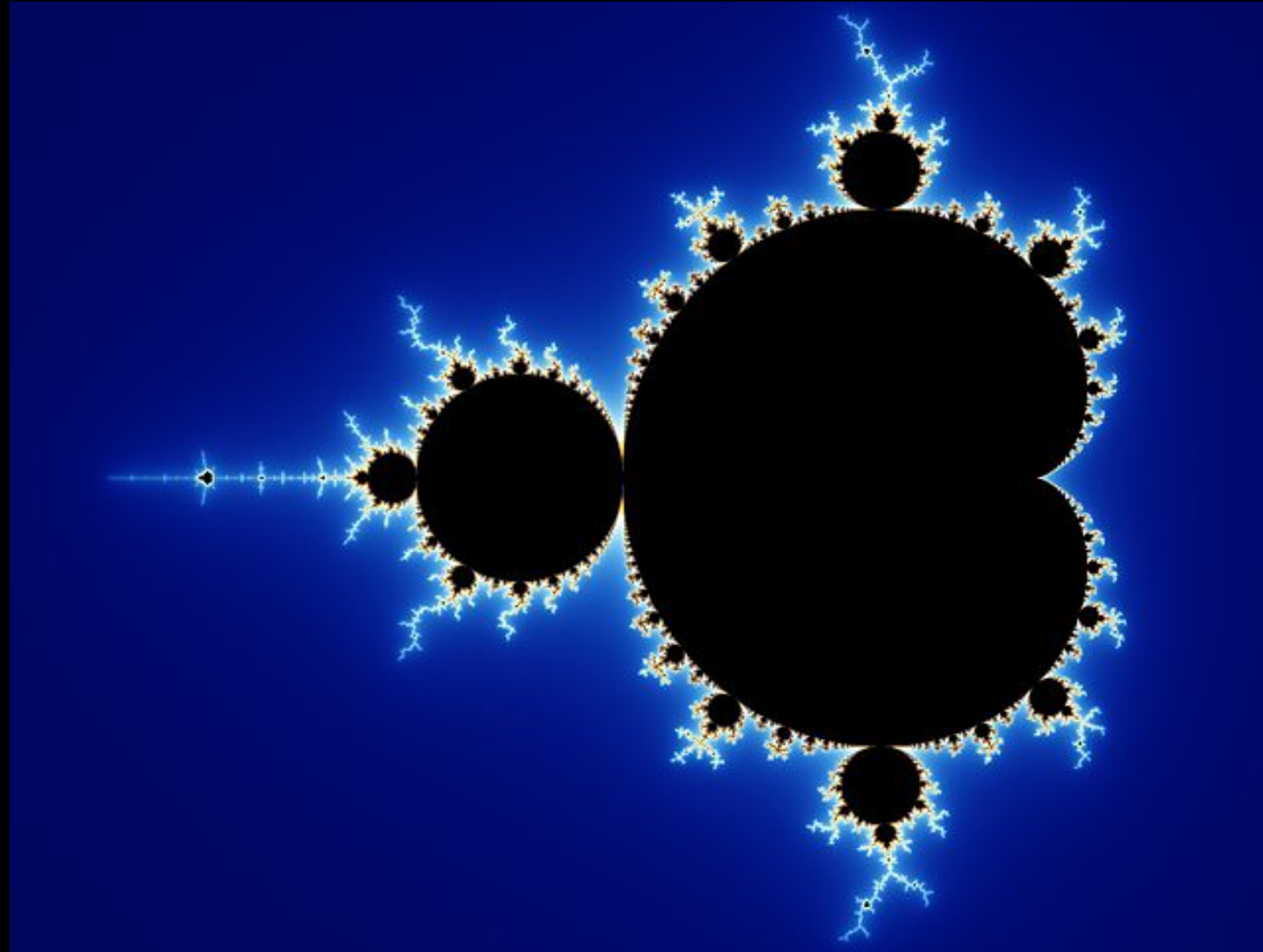
# MARTH

$$2+2=4$$

$$4=2+2$$

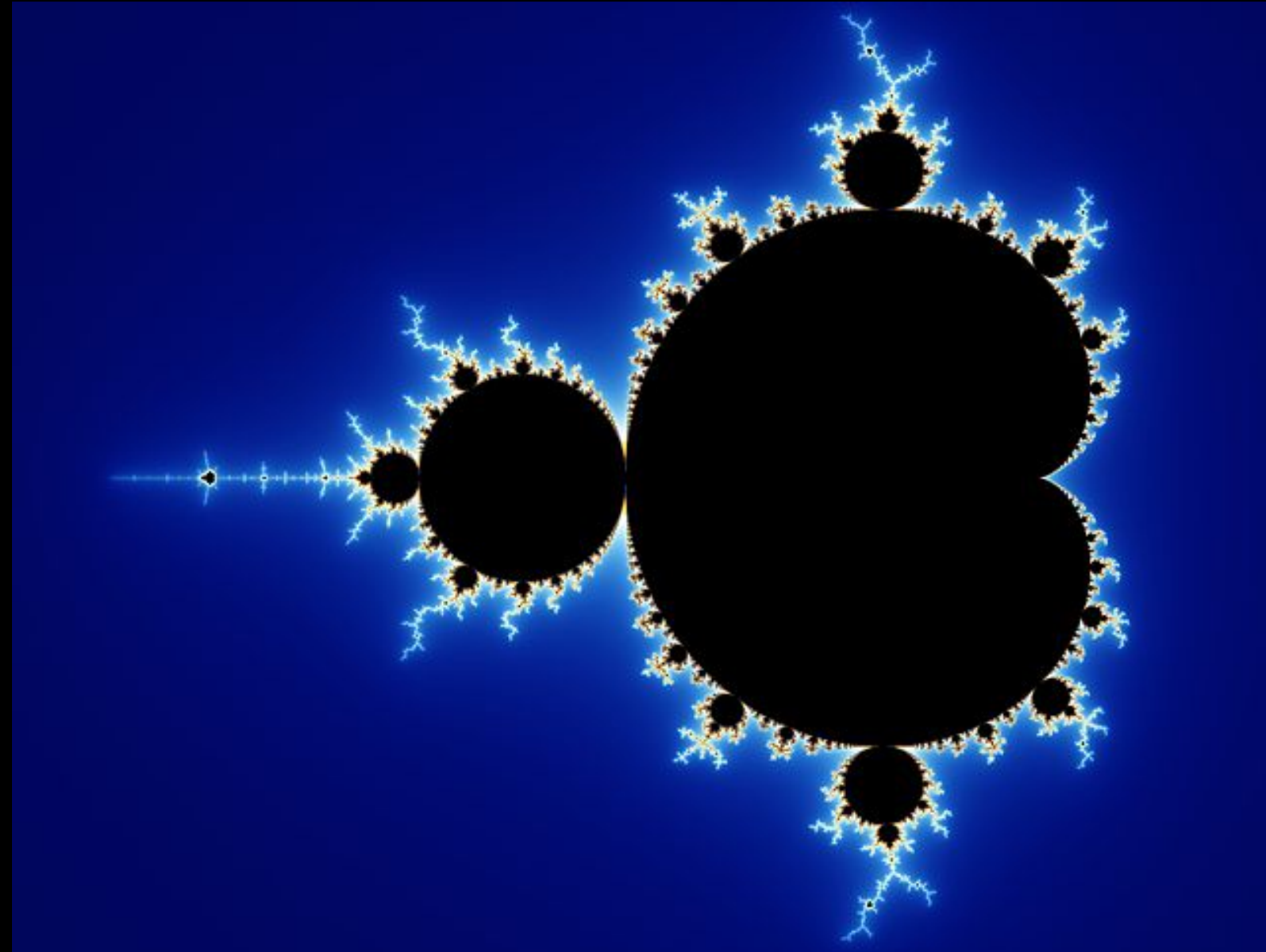
**0 CREATES ITSELF AS A  
FRACTAL AND CAN  
LEARN FOREVER**

PLAY MSET AGAIN



$$z_{n+1} = z_n^2 + c$$

# MARTH STARTS AT 0



$$Z_{n+1} = Z_n^2 + c$$

**0 STARTS EVERYTHING  
TALL AND SHORT  
THE FRACTAL IS PARADOX OF PARADOXES  
NO BEGINNING, MIDDLE OR END**

**0 = TREE  
FRACTAL = BRANCHES  
OBSERVABLE UNIVERSE = LEAF**

**ZERO ENERGY UNIVERSE  
FRACTAL HYPOTHESIS  
ANTHROPIC PRINCIPLE**

**EXPLAINS THE MOST BEAUTIFUL EQUATION IN ALL OF MATH**

It seems that if one is working from the point of view of getting beauty in one's equations, and if one has really a sound insight, one is on a sure line of progress. If there is not complete agreement between the results of one's work and experiment, one should not allow oneself to be too discouraged, because the discrepancy may well be due to minor features that are not properly taken into account and that will get cleared up with further development of the theory.

It seems to be one of the fundamental features of nature that fundamental physical laws are described in terms of a mathematical theory of great beauty and power, needing quite a high standard of mathematics for one to understand it. You may wonder: Why is nature constructed along these lines? One can only answer that our present knowledge seems to show that nature is so constructed.

We simply have to accept it

**BREAK**



**SCIENCE OF TOGETHERNESS  
STATE VIEW NOT STREET VIEW  
RAINBOW OF TRUTH**

**ZERO ENERGY UNIVERSE = CYCLE/TREE**  
**FRACTAL HYPOTHESIS = PATTERN/BRANCH**  
**ANTHROPIC PRINCIPLE = US/LEAF**

**EXPLAINS THE MOST BEAUTIFUL EQUATION IN ALL OF MATH**



**SO EXCITED !**


**SIX**

# YOUR MIND IS A FRACTAL


THIS IS HOW WE CAN TEST IT  
MAYBE THIS IS WHY 'THE MIND' HAS BEEN HARD TO FIND  
BEING AWAKE/AWARE = CITY FOLK SENTIENCE  
FRACTAL CREATING WHAT IT NEEDS TO CANCEL ITSELF OUT  
COMMUNICATION WITH SELF

# Preserved fractal character of structural brain networks is associated with covert consciousness after severe brain injury

Andrea I. Luppi<sup>a b</sup>  , Michael M. Craig<sup>a b</sup>, Peter Coppola<sup>a b</sup>, Alexander R.D. Peattie<sup>a b</sup>,  
Paola Finoia<sup>a c</sup>, Guy B. Williams<sup>b d</sup>, Judith Allanson<sup>b e</sup>, John D. Pickard<sup>b c d</sup>, David K. Menon<sup>a d</sup>,  
Emmanuel A. Stamatakis<sup>a b</sup>


Show more 

 Add to Mendeley  Share  Cite

<https://doi.org/10.1016/j.nicl.2021.102682> 

[Get rights and content](#) 

Under a Creative Commons [license](#) 

 open access

**THE MORE 'AWARE' WE ARE**  
**THE MORE FRACTALESQUE**  
**OUR BRAIN BECOMES**

**THE FRACTAL IS AWARE**



[Front Physiol.](#) 2010, 1: 15. Published online 2010 Jun 6. Prepublished online 2010 May 26.

doi: [10.3389/fphys.2010.00015](https://doi.org/10.3389/fphys.2010.00015)

PMCID: PMC3059969 | PMID: [21423358](https://pubmed.ncbi.nlm.nih.gov/21423358/)

# Fractals in the Nervous System: Conceptual Implications for Theoretical Neuroscience

[Gerhard Werner](#)<sup>1,\*</sup>

► [Author information](#) ► [Article notes](#) ► [Copyright and License information](#) [PMC Disclaimer](#)

## Abstract

[Go to: ►](#)

This essay is presented with two principal objectives in mind: first, to



**HARDWARE IS FRACTAL  
SOFTWARE IS A FRACTAL  
WHAT ABOUT DIRECT?**

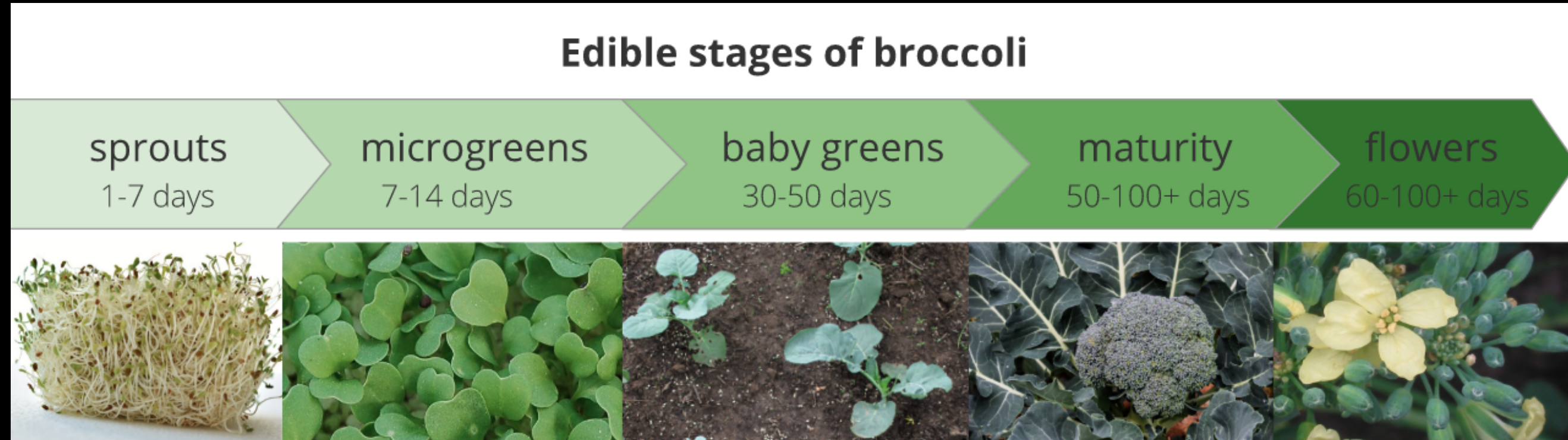
# TEEN/LITTLE PERSON

EMPTINESS AND FULLNESS  
GUIDING ITSELF BACK HOME  
INTUITION WITHIN

THE WOMB

LIFE DOESN'T REPEAT, BUT IT RHYMES

# THE BROCCOLI TIME



**SEVEN**

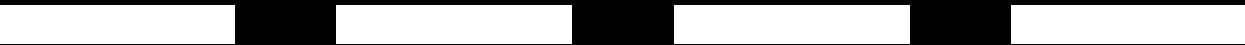
# SO WHAT?

ISN'T IT ALL MEANINGLESS?

# SPEEDING UP THE FIRE

SCIENCE OF TOGETHERNESS  
IMAGINATION EXISTS, SO DOES INFINITE  
CREATIVE ENERGY FROM ZERO

BUT WHAT IS THE POINT?



YOU CAN USE YOUR FREE CHOICE TO TEST AND  
SEE IF YOU LOVE YOUR OWN IMAGINATION  
**AS A FRACTAL** AND FOLLOW THE GUIDANCE OF  
A FRACTAL HYPOTHESIS, WHICH SHOWS US THAT  
THE FRACTAL IS DESIGNED FOR YOU TO  
LOVE YOURSELF.



# SPEEDING UP THE FIRE

SCIENCE OF TOGETHERNESS

THE WHOLE POINT IS A HIGHLY IMPROBABLE SERIES OF  
CONCIDENCES THAT ARE FRACTAL IN NATURE THAT IS  
LEARNING ITS TRUE NATURE WHICH IS LOVE, BEFORE IT

CANCELS ITSELF BACK OUT

IF THAT'S TRUE CAN'T I SPEED IT UP?

# COINCIDENCES

SCIENCE OF TOGETHERNESS

THE WHOLE POINT IS AN IMPROBABLE SERIES OF  
COINCIDENCES THAT ARE FRACTALESQUE IN NATURE  
THAT IS LEARNING ITS TRUE NATURE WHICH IS LOVE  
BEFORE IT CANCELS ITSELF BACK OUT

IF THAT'S TRUE, CAN I SPEED IT UP?

# PREDICTION

SCIENCE OF TOGETHERNESS

WORLD PEACE WITHOUT THE 'WOO WOO'

**EIGHT**

# THE FRACTAL HYPOTHESIS

SCIENCE OF TOGETHERNESS  
ISN'T THIS JUST MORE QUANTUM HEALING?

# THE FRACTAL HYPOTHESIS

SCIENCE OF TOGETHERNESS

MEGA FRACTAL ULTRA IN THE TEXTBOOKS

SELF LOVE

# THE FRACTAL HYPOTHESIS

SCIENCE OF TOGETHERNESS

PHYSICS SHOULD BE FILLED WITH EXAMPLES  
MASSIVE COINCIDENCES CANCEL EACH OTHER  
OUT TO CREATE WHAT WE NEED FOR LIFE THAT  
CAN'T BE EXPLAINED AWAY

# THE FRACTAL HYPOTHESIS

THE HIGGS PROBLEM (VIDEO)

COSMOLOGICAL CONSTANT PROBLEM

WHY ZERO DIVIDED BY ZERO

WHY NO MAGNETIC MONOPOLES?

WHAT IS MATH?

WHAT ABOUT THESE THREE?



$$e^{i\pi} + 1 = 0$$

$$(\partial + m) \psi = 0$$

$$\frac{\partial f}{\partial y} - \frac{d}{dx} \frac{\partial f}{\partial y'} = 0$$

# ZERO-QM-CLASSICAL?

$$e^{i\pi} + 1 = (\partial + m) \psi = \frac{\partial f}{\partial y} - \frac{d}{dx} \frac{\partial f}{\partial y'} = 0$$

# REALITY IN 9 STEPS

PARADOX

REALITY IS A PATTERN

PATTERN AS A FRACTAL

ZERO AS THE 'WHY' OF THE FRACTAL 'WHAT'

WE ARE THE 'WHO' TO SOLVE THE TALL SHORT

# REALITY IN 9 STEPS

THE FRACTAL HYPOTHESIS

THE ZERO ENERGY AND ANTHROPIC PROBLEM  
PROVE WITH EQUATION OF BEAUTY AND BARCODE

IMAGINATION IS A FRACTAL

YOU CAN LOVE YOUR IMAGINATION AS A FRACTAL  
PREDICTION

**NINE**

# NINE - IMPLICATIONS

WHERE DOES IT STOP?

IF NOT THIS THEN WHAT?

IF NOT NOW THEN WHEN?

IF NOT US THEN WHO?

IF NOT FOR ART AND THE EARTH THEN WHY?

# IMAGINAL AGE

MATH - WHAT MARTH IS...

LANGUAGE OF FRACTAL - STRUCTURE OF OUR IMAGINATION

PHYSICS - ZERO ENERGY PROOF

SCIENCE - FRACTAL HYPOTHESIS

PHILOSOPHY - SELF LOVE AND LOVING THE EARTH

MEDICINE - WHY PSYCHEDELICS WORK

➤ [Neuroimage](#). 2020 Oct 15;220:117049. doi: 10.1016/j.neuroimage.2020.117049. Epub 2020 Jun 30.

# Serotonergic psychedelics LSD & psilocybin increase the fractal dimension of cortical brain activity in spatial and temporal domains

Thomas F Varley<sup>1</sup>, Robin Carhart-Harris<sup>2</sup>, Leor Roseman<sup>3</sup>, David K Menon<sup>4</sup>,  
Emmanuel A Stamatakis<sup>5</sup>

Affiliations + expand

PMID: 32619708 DOI: [10.1016/j.neuroimage.2020.117049](#)

[Free article](#)

**Abstract**



# IMAGINAL AGE

MATH - WHAT MARTH IS...

LANGUAGE OF FRACTAL - STRUCTURE OF OUR IMAGINATION

PHYSICS - ZERO ENERGY PROOF

SCIENCE - FRACTAL HYPOTHESIS

PHILOSOPHY - SELF LOVE AND LOVING THE EARTH

MEDICINE - WHY PSYCHEDELICS WORK

# SELF LOVE

WORLD PEACE OR BUST

SELF-LOVE OR BUST

RAINBOW OR BUST

TWO TRUTHS WHICH MUST BE FACED

# RECAP

THE CALL FOR PEACE

# FRACTALNAUGHTS

THERE IS MORE  
COMMENTARY AND SO MUCH MORE  
ANOTHER VIDEO  
OZ GOV

**THE MOST COSMICALLY  
IMPORTANT THING TO DO  
IS LOVE YOURSELF AS A  
FRACTAL FOREVER**

**THAT IS THE WORLD  
PEACE N=?**

**BIG LOVE**