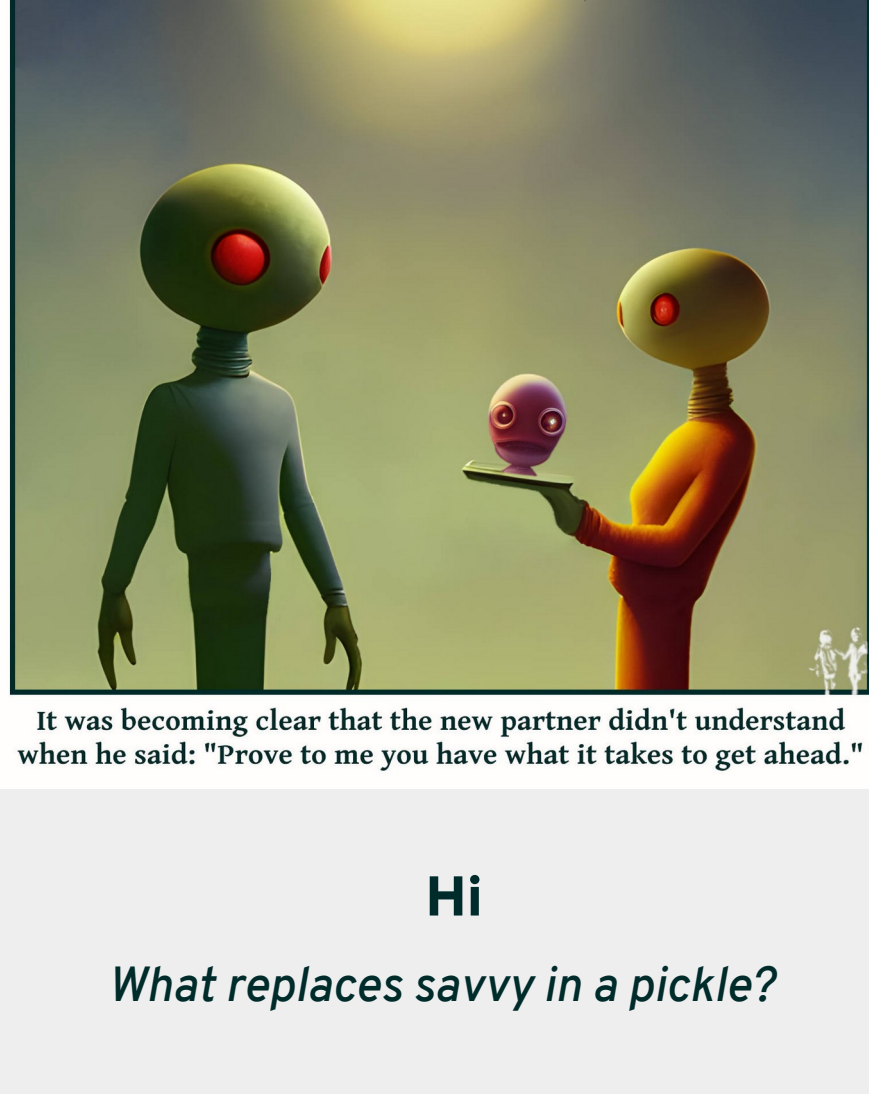


Change Happens

Have a great day,
find your way

The Alien Life



It was becoming clear that the new partner didn't understand when he said: "Prove to me you have what it takes to get ahead."

Hi

What replaces savvy in a pickle?

I knew a guy who always wanted
to hitch a ride to the end game,
skip past the joy and pain of learning.
I guess he thought it was the easy way,
getting carried to the shore.

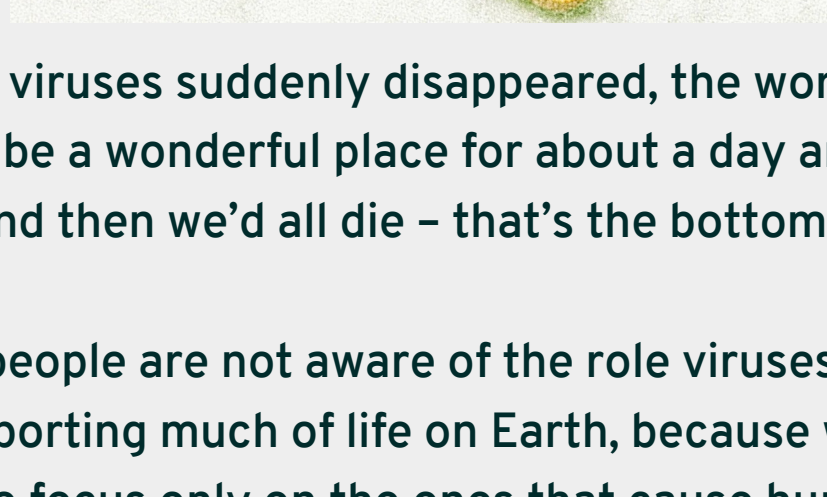
Thunder cracking overhead, lightning
looking to strike the shell you're in,
a confused sea sick on all sides,
wondering why we are in the way.
One blinking beacon, maybe imagined,
too far away.

The trouble with adventure,
if you haven't earned your way,
is that the boat fills up with water
faster than your experience can bail.

I knew a guy who always wanted
to hitch a ride to the end game,
I heard he doesn't do that anymore,
there's danger getting carried to the shore.

A fine invisible line

Why the world needs viruses to function

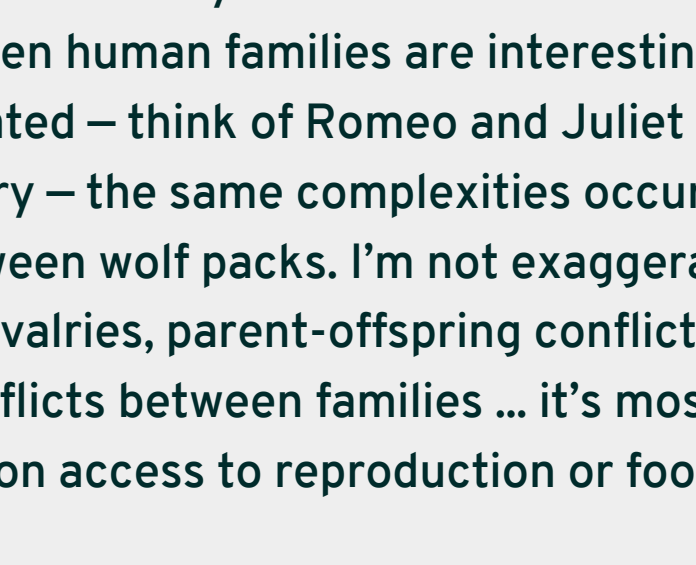


" If all viruses suddenly disappeared, the world would be a wonderful place for about a day and a half, and then we'd all die – that's the bottom line!..."

Most people are not aware of the role viruses play in supporting much of life on Earth, because we tend to focus only on the ones that cause humanity trouble. Nearly all virologists solely study pathogens; only recently have a few intrepid researchers begun investigating the viruses that keep us and the planet alive, rather than kill us. "

Unnatural selection

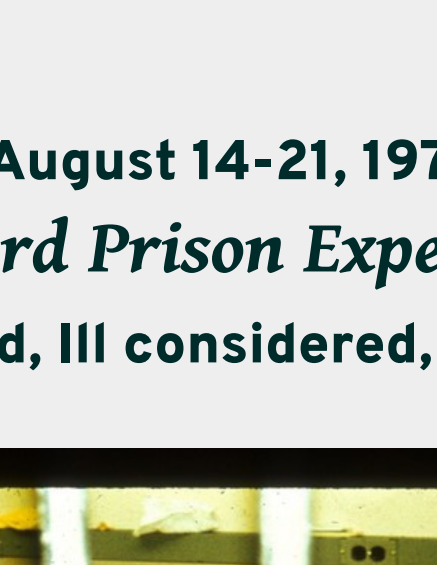
How gray wolves divided America



" If you think the dynamics within a human family or between human families are interesting and complicated – think of Romeo and Juliet or West Side Story – the same complexities occur within and between wolf packs. I'm not exaggerating. Sibling rivalries, parent-offspring conflicts, and then conflicts between families ... it's mostly focused on access to reproduction or food. "

A long sleep

Worms Frozen for 46,000 Years Are Alive

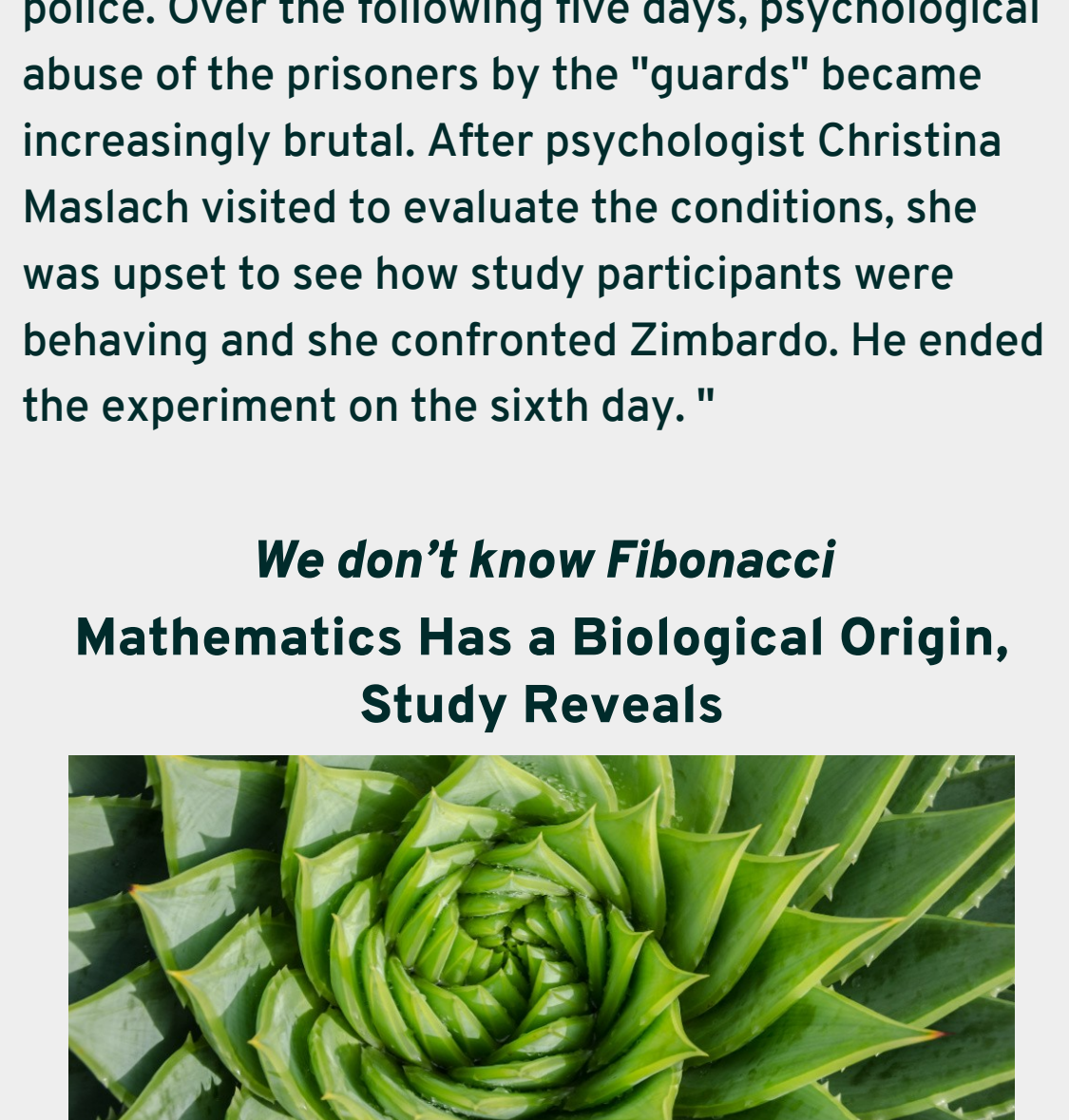


" Scientists have brought back to life two tiny worms that had been frozen for 46,000 years. The worms were found in the frozen soil of Siberia. The worms are a new species, and are the oldest living animals ever brought back to life after being frozen. "

August 14-21, 1971

Stanford Prison Experiment

Ill conceived, Ill considered, Illuminating

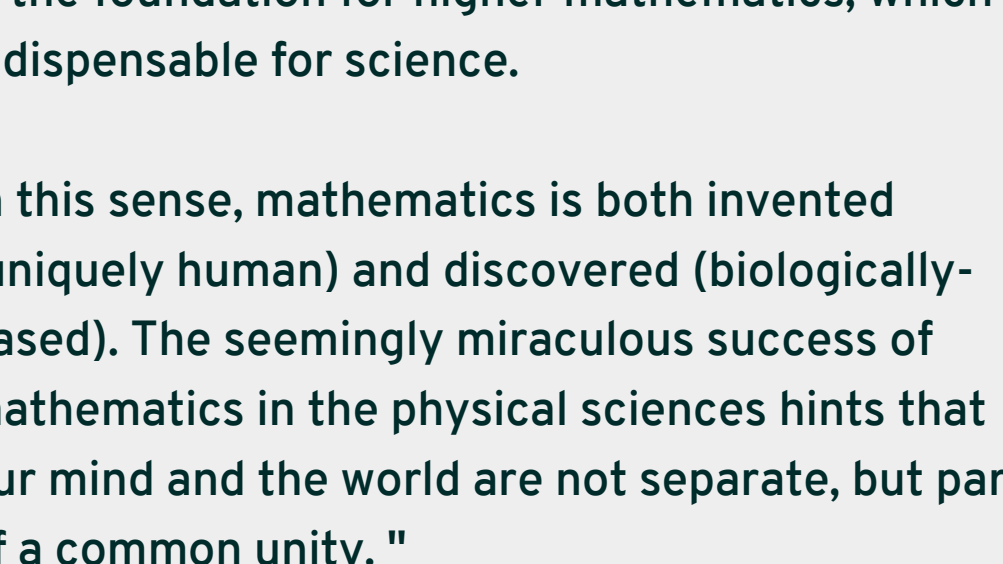


Wiki Rabbit Hole

" Those volunteers selected to be 'guards' were given uniforms specifically to de-individuate them, and they were instructed to prevent prisoners from escaping. The experiment officially started when 'prisoners' were arrested by real Palo Alto police. Over the following five days, psychological abuse of the prisoners by the "guards" became increasingly brutal. After psychologist Christina Maslach visited to evaluate the conditions, she was upset to see how study participants were behaving and she confronted Zimbardo. He ended the experiment on the sixth day. "

We don't know Fibonacci

Mathematics Has a Biological Origin, Study Reveals

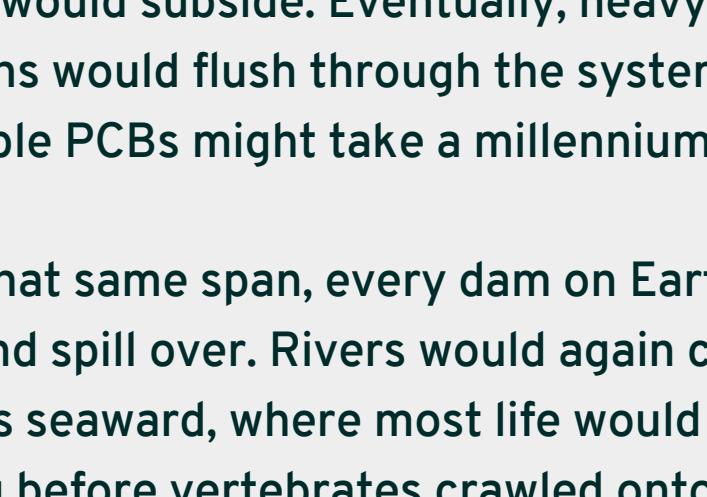


" The fact that we don't know why arithmetic is true is a critical gap in our knowledge. Arithmetic is the foundation for higher mathematics, which is indispensable for science. "

In this sense, mathematics is both invented (uniquely human) and discovered (biologically-based). The seemingly miraculous success of mathematics in the physical sciences hints that our mind and the world are not separate, but part of a common unity. "

As before

Earth Without People

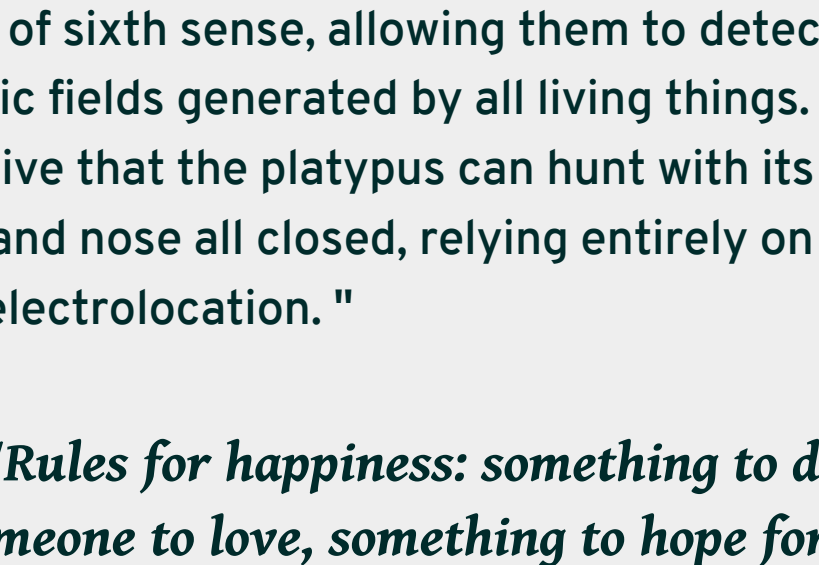


" Without people, most excess industrial carbon dioxide will dissipate within 200 years, cooling the atmosphere. With no further chlorine and bromine leaking skyward, within decades the ozone layer would replenish, and ultraviolet damage would subside. Eventually, heavy metals and toxins would flush through the system; a few intractable PCBs might take a millennium. "

During that same span, every dam on Earth would silt up and spill over. Rivers would again carry nutrients seaward, where most life would be, as it was long before vertebrates crawled onto the shore. Eventually, that would happen again. The world would start over. "

The pinnacle of organic creation

Curious Facts About the Platypus



" 2. Platypus bills give them a "sixth sense."

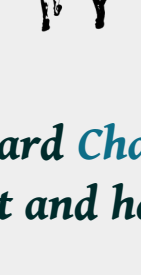
A platypus's bill has thousands of cells that give it a sort of sixth sense, allowing them to detect the electric fields generated by all living things. It's so sensitive that the platypus can hunt with its eyes, ears, and nose all closed, relying entirely on the bill's electrolocation. "

"Rules for happiness: something to do, someone to love, something to hope for."

Immanuel Kant



it's your life
you understand



Please feel free to forward *Change Happens* to anyone you think might enjoy it and have a most excellent day