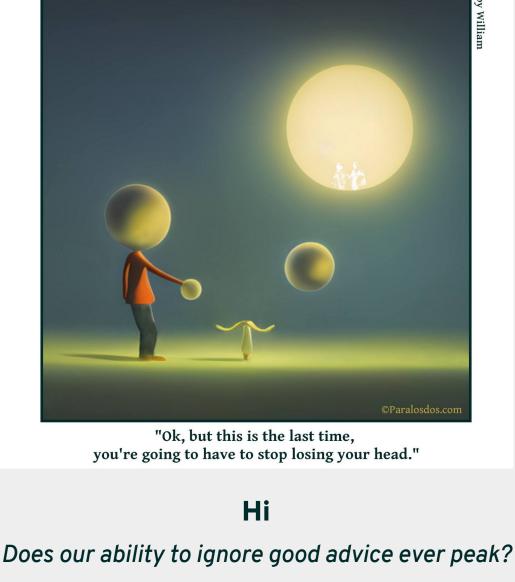
## Change Happens

The Alien Life



"Be kind to yourself," she said. I know I heard her clearly;

I had broken some part

or another, and needed repairs.

Should you find yourself, on a small island in the middle of nowhere, or, even in a vast city

in the middle of everywhere, and the briefly visiting fixer upper of parts speaks, you must listen.

I don't know if she was as beautiful then as her words have made her now. I believe she was. That is how I came to receive the best advice I ever ignored.

Trying to regenerate Stem cells: What they are and what they do "Stem cells are a special type of cells that have two

important properties. They are able to make more cells like themselves. That is, they self-renew. And they can become other cells that do different things in a process known as differentiation. Stem cells are found in almost all tissues of

the body. And they are needed for the maintenance of tissue

as well as for repair after injury.

There are various types of stem cells. Embryonic stem cells are the most versatile since they can develop into all the cells of the developing fetus. The majority of stem cells in the body have fewer abilities to give rise to cells and may only help

maintain and repair the tissues and organs in which they

reside." • A nicely presented primer on stem cells. If you don't have any understanding of them, this is a good place to start. Modern stem cell research and use has roots back to 1956 and the first bone marrow transplants. Stem cells play a critical role in our internal physical existence. It also serves as a good reminder of the basics if you wish to re-engage the topic. I feel like

the use of stem cells has a bit of a mysterious

Frankenstein element to it that is misleading. The

most effective stem cells are embryonic, usually

derived from early stage embryos taken from in vitro

fertilization. This is where it gets controversial, the

idea that embryos may be grown for, essentially,

parts.

moved to. "

Flying in empty How Voyager 1 is still bringing us surprises from the very edge of our solar system " The problem related to one single chip in the FDS, which contained some of its computer's software code. The chip had broken, and therefore so had the data. But with Voyager sitting more than 24 billion kilometres from Earth, further away than Pluto and the most distant humanmade object ever made. A trip to the repair shop would be impossible. Instead, Nasa engineers divided up the important bits of code and moved them elsewhere in the FDS, making other parts of the computer pick up the extra work that would have been

done by the broken chip. That was a complicated process

that it knew where the altered parts of the code had been

• Voyager 1, and 2. Anyone who has ever closed their

blue dot picture and the furthest we have, by

eyes and imagined travelling through space has to be

interested in this. Voyager 1, famous taker of the pale

ingenuity and extension, ventured beyond our rock.

been moving at 61000 kilometers per hour (38000

For me, the most mind bending thing is that it has

because it also meant updating all of the spacecraft's code so

mph) since 1977 and still won't leave the Oort Cloud, our solar neighbourhood, for another 30000 years. We are an unimaginably long way from going anywhere that might be truly inhabitable. Mars bubble aside. Calmly breathing

What is box breathing?

"The unconscious body, or the autonomic nervous system,

refers to the functions that take place without any thought,

such as the heart beating or the stomach digesting food. This

system can be in a "fight, flight, or freeze" or "rest and digest"

state. In fight, flight, or freeze, the body feels threatened and reacts to help the person escape or avoid danger. Among other things, the body releases the hormones adrenaline and noradrenaline. These set off a cascade of reactions, which include making the heart beat faster, speeding up breathing, and boosting blood sugar levels. Being in this state of stress for too long or too often has adverse health consequences. The physical impact of this state can cause wear and tear on every system in the body. " • A year or so ago, I put in an article on box breathing. I'm including a similar article because it's a fantastically useful tool for alleviating stress in a

moment. Simple and really effective in controlling

inner tension and centering yourself, in reclaiming

an effective method of using focussed breathing to

feel better.

some calm. Nothing fancy, no voodoo about it. It's just

**January 6, 1907** 

Maria Montessori

Casa dei Bambini

Wiki Rabbit Hole

"In this first classroom, Montessori observed behaviors in

these young children which formed the foundation of her

educational method. She noted episodes of deep attention

sensitivity to order in the environment. Given a free choice of

activities and Montessori's materials than in toys provided for

them and were surprisingly unmotivated by sweets and other

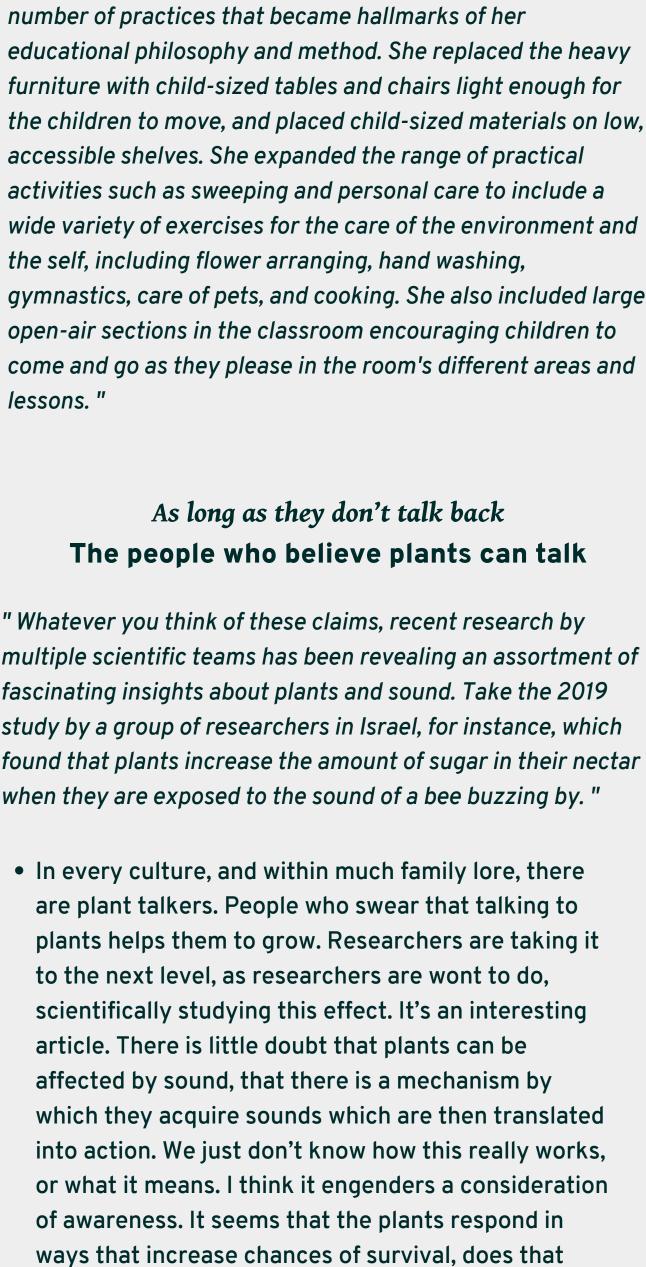
rewards. Over time, she saw a spontaneous self-discipline

Based on her observations, Montessori implemented a

emerge.

and concentration, multiple repetitions of activity, and a

activity, the children showed more interest in practical



Nature smiling Comedy wildlife photography awards 2024 - in pictures " Mantis flamenca On my way back in the car from a photo walk around a marsh near my town (Onda in Spain), I braked suddenly. This was

when I first saw my friend, the Flemish mantis. You can

imagine the faces inside the passing vehicles, seeing a car

with its indicators on, the door open, and a madman lying on

• The title's a little misleading. Some of the pictures are

allowed themselves to be captured in weird poses, but

definitely funny, the creatures having graciously

mainly they are just photographs of animals being

awesome. Personally, I never get tired of looking at

flying machine is horrifying. The loud talkers sharing

their stupendous insights and the vast importance of

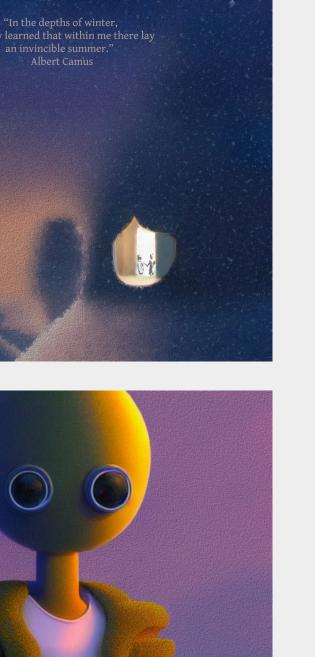
with the odd baby crying, some random coughing and

their interaction at 35000 feet. Nope. I am content

the thrum of the engines.

the ground with his camera "

good pictures of nature. "In the depths of winter, I finally learned that within me there lay an invincible summer." **Albert Camus** 



it's your life you understand



constitute an intelligent response? At the very least,

you probably need more evidence now than 'talks to

his fern' to label your buddy a nutter.

- I finally learned that within me there lay

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

from the walls of the digital cave January 12, 2025 Have a great day, find your way