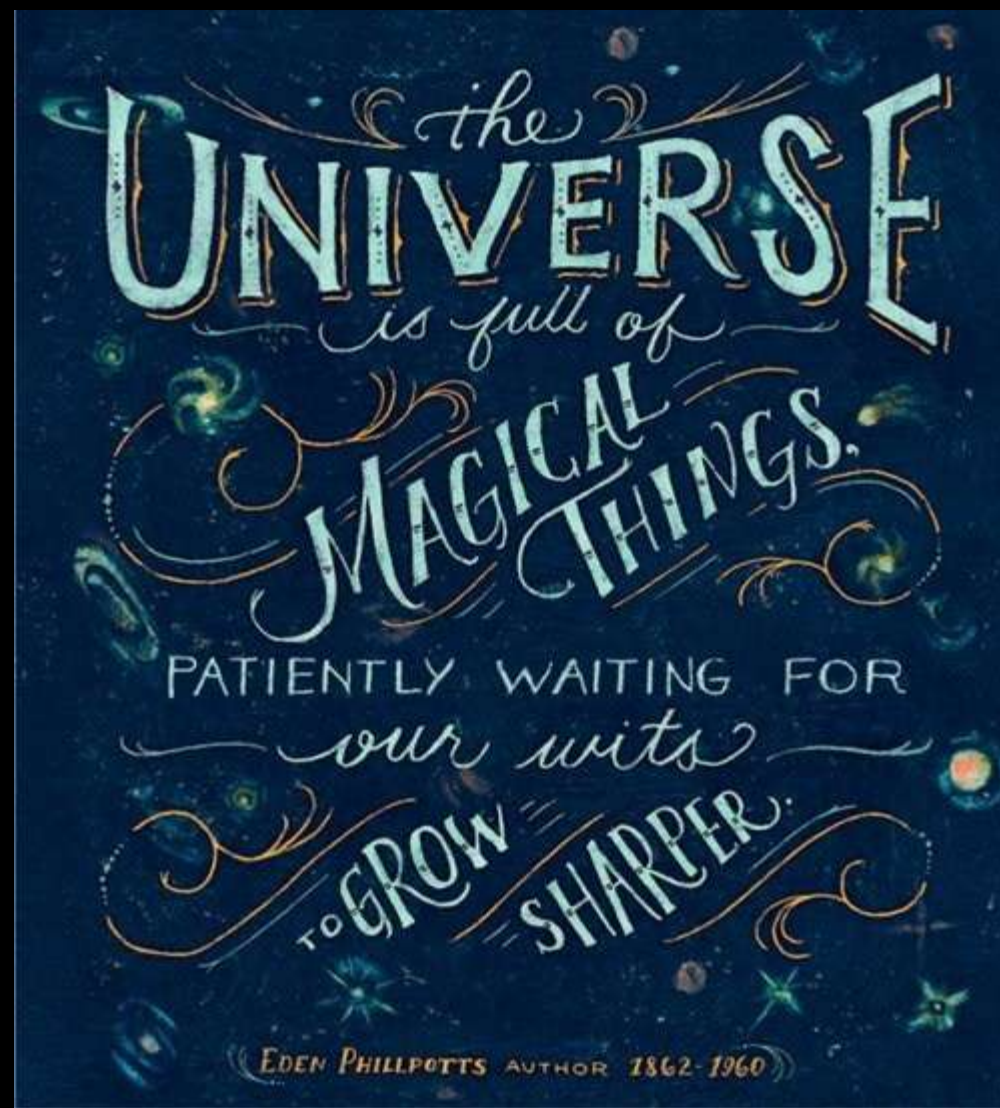


WELCOME TO LIFE

**A GUIDE FOR NEW MEMBERS
OF THE HUMAN RACE**

by ryan somma



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SO HERE YOU ARE, LIVING ON A PLANET WE CALL...



EVERYTHING AROUND YOU ALL THE WAY UP TO THE TOP OF THE CLOUDS IS PART OF EARTH.

THAT BIG BRIGHT HOT BALL IN THE SKY DURING THE DAY IS

THE

SUN

OUR EARTH GOES AROUND THE SUN.

EVERY TIME YOU HAVE A BIRTHDAY, THE
EARTH HAS GONE ALL THE WAY AROUND
THE SUN SINCE YOUR LAST BIRTHDAY!

THE SUN IS A **STAR**. SO ARE THE OTHER TWINKLING DOTS OF LIGHT IN THE SKY AT
NIGHT.

THE BIG GLOWING CIRCLE IN THE SKY AT NIGHT? THAT IS
THE

MOON



THE MOON IS LIKE A PLANET,
BUT IT GOES AROUND THE EARTH.
THE SUN SHINES ON IT TO MAKE IT BRIGHT.

SOME OF US HAVE WALKED ON THE MOON!

SOME OF THE BRIGHT SPOTS IN THE NIGHT SKY ARE PLANETS TOO.
THEY DON'T TWINKLE, BUT THEY DO GO AROUND THE SUN



THE SUN AND OTHER STARS GO AROUND THE MILKY WAY.
THE MILKY WAY IS A GALAXY.

GALAXIES HAVE HUNDREDS OF BILLIONS OF STARS IN THEM.

THE SKY IS FILLED WITH GALAXIES. THERE ARE OVER 10,000 GALAXIES ON THIS PAGE AND IT WOULD TAKE 23,700,000 PAGES TO COVER THE NIGHT SKY. ALL OF THESE GALAXIES FILLED WITH STARS CIRCLED BY PLANETS CIRCLED BY MOONS ARE PART OF THE...

UNIVERSE

THE UNIVERSE IS EVERYTHING THERE IS.

SO HOW DID YOU GET HERE?



ON A PLANET...



GOING AROUND A STAR...



GOING AROUND A GALAXY...

...IN A UNIVERSE FULL OF GALAXIES?

YOU CAME FROM INSIDE YOUR MOMMY.
YOUR MOMMY CAME FROM INSIDE YOUR GRANDMOMMY.
YOUR GRANDMOMMY CAME FROM INSIDE YOUR GREAT GRANDMOMMY.
ON AND ON, BACK THROUGH TIME...



100 BA*



200 BA



1700 BA



2200 BA



3300 BA

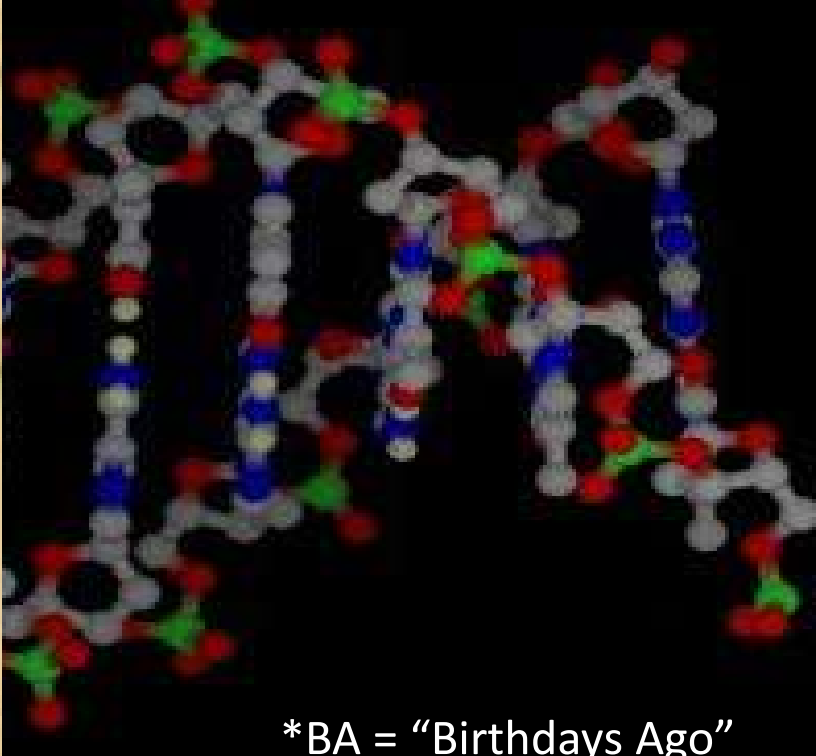
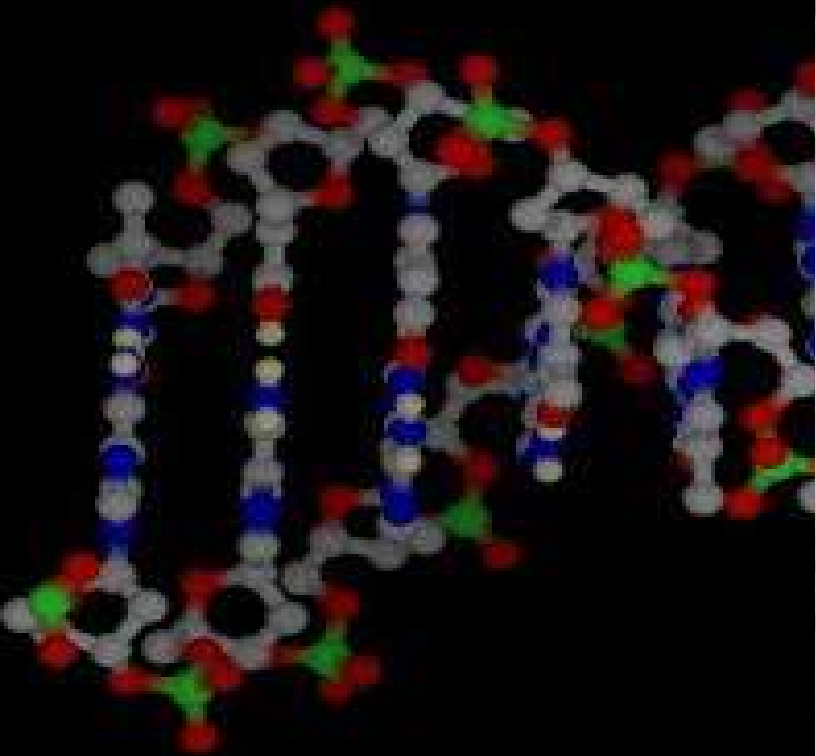


25,000 BA

...GREAT GREAT GREAT GREAT GREAT GREAT GREAT GREAT GREAT GREAT GREAT GREAT GREAT GREAT GREAT...
OVER 100,000 GREAT-GRANDMOMMIES AGO
TO A MOMMY WHO LOOKED SOMETHING LIKE THIS:



3,000,000 BA



*BA = "Birthdays Ago"

BUT IT DOESN'T STOP THERE!

SHE CAME FROM INSIDE HER MOMMY,
WHO CAME FROM INSIDE HER GRANDMOMMY,
WHO CAME FROM INSIDE HER GREAT-GRANDMOMMY...

ONE MOMMY LOOKED LIKE THIS...

...ANOTHER MOMMY LIKE THIS...

...AND ANOTHER LIKE THIS



20,000,000 BA



60,000,000 BA



210,000,000 BA

ON AND ON...

...BACK THROUGH TIME...

...CHANGING AND CHANGING



295,000,000 BA



375,000,000 BA



480,000,000 BA

GETTING MORE AND MORE SIMPLE OVER HUNDREDS OF MILLIONS OF YEARS



530,000,000 BA



550,000,00 BA



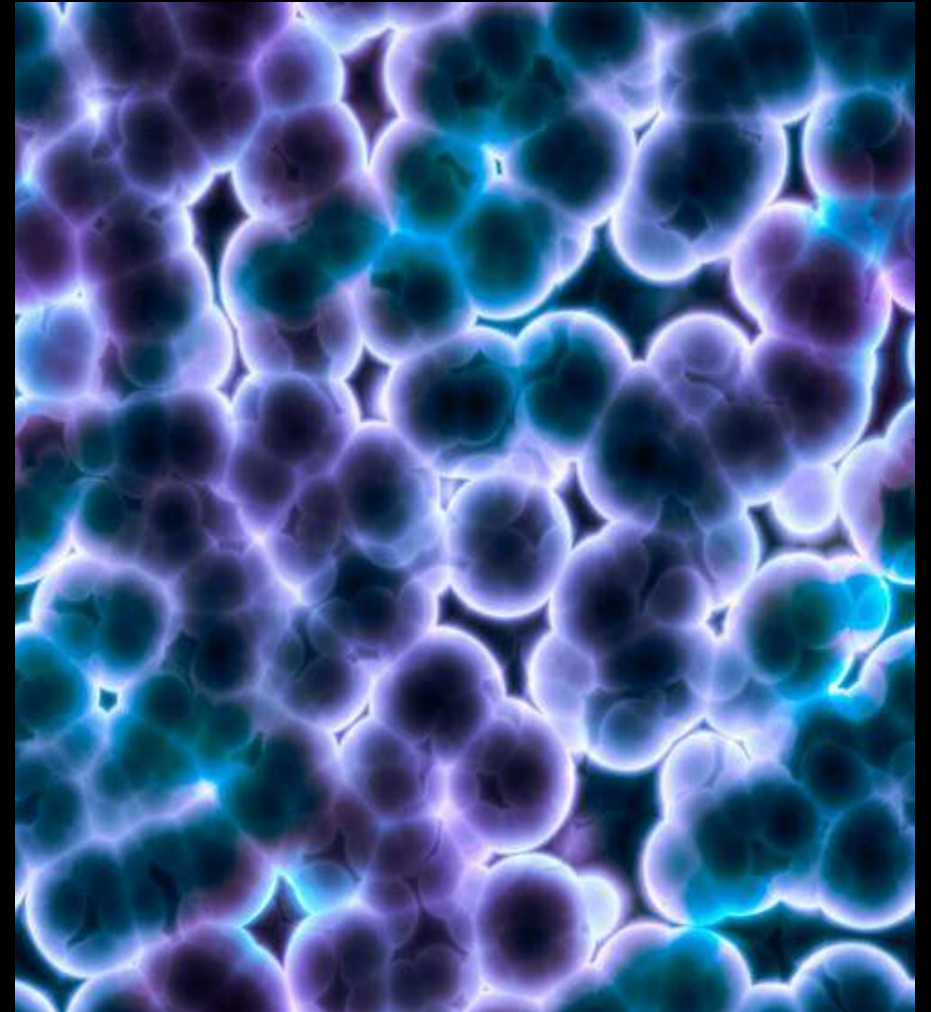
1,500,000,000 BA

ALL THE WAY BACK TO THIS

A SINGLE CELL
3,500,000,000 BA

HOW DID A SINGLE CELL BECOME HOMO SAPIENS?

FOR 2,000,000,000 BIRTHDAYS ON EARTH, ALL LIVING THINGS WERE SINGLE CELLS.



THEN SOME CELLS STARTED WORKING TOGETHER. THIS MADE THEM STRONGER THAN THE SINGLE CELLS, SO THEY MULTIPLIED

SOME TEAMS OF CELLS FORMED PLANTS
THAT EAT SUNLIGHT



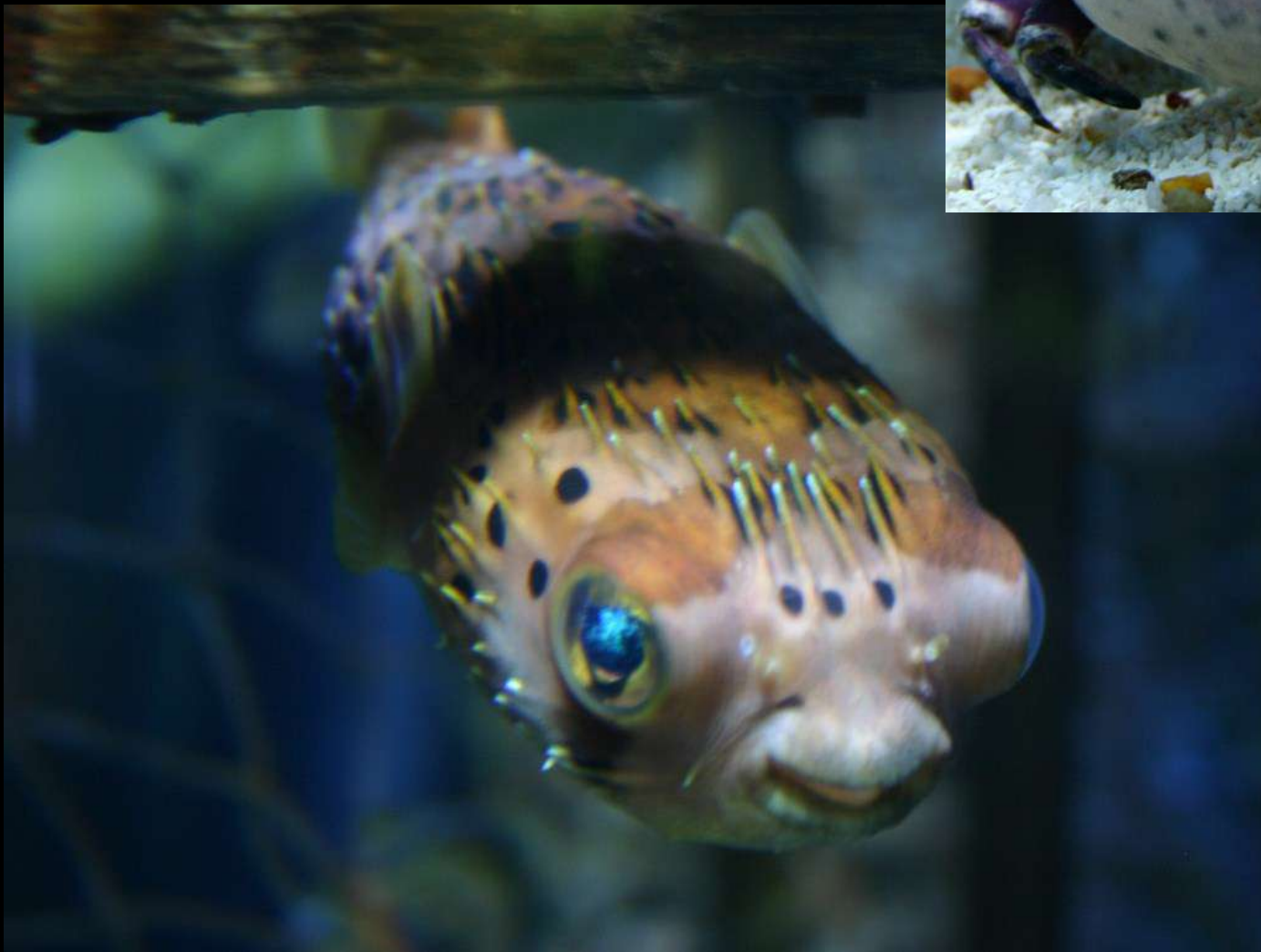
OTHERS FORMED ANIMALS,
THAT EAT PLANTS.



DIFFERENT THINGS WORKED FOR
DIFFERENT KINDS OF LIFE.

ANIMALS AND PLANTS KEPT ON CHANGING, TRYING OUT DIFFERENT THINGS.

SOME ANIMALS, LIKE CRABS,
WORE THEIR SKELETONS
ON THE OUTSIDE.



OTHER ANIMALS, LIKE FISH,
WORE THEIR SKELETONS
ON THE INSIDE.

DIFFERENT THINGS WORKED FOR DIFFERENT KINDS OF LIFE.

ALL OF THIS WAS HAPPENING IN THE EARTH'S OCEANS,
WHICH WERE GETTING PRETTY CROWDED...

SO SOME PLANTS AND ANIMALS GREW TO LIVE ON THE LAND.



CRABS AND OTHER ANIMALS
WITH OUTSIDE SKELETONS
BECAME BUGS AND INSECTS.



FISH AND OTHER ANIMALS
WITH INSIDE SKELETONS
BECAME AMPHIBIANS AND REPTILES



SOME LIZARDS BECAME DINOSAURS AND BIRDS AND TINY MAMMALS.



SOME TINY MAMMALS BECAME ELEPHANTS, DOGS, CATS, WHALES, AND MONKEYS.



SOME MONKEYS EVENTUALLY BECAME *HOMO SAPIENS*!

THIS WAS YOU YOUR
NUMBER
OF BIRTHDAYS AGO
(PLUS NINE MONTHS INSIDE
YOUR MOMMY.)



A FEW HOURS LATER YOU
GREW UP TO BE THIS



YOU HAD A TAIL LIKE
A LIZARD ONCE!

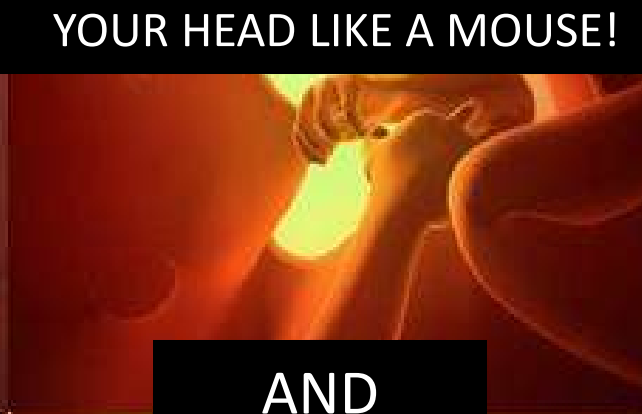
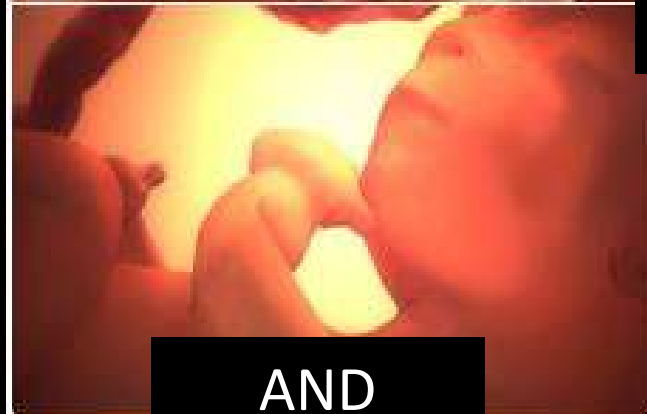


YOU HAD GILLS
LIKE A FISH
ONCE TOO!



AND EYES ON THE SIDE OF
YOUR HEAD LIKE A MOUSE!

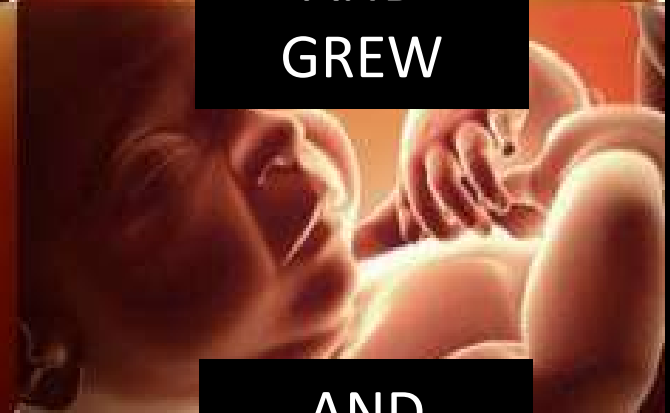
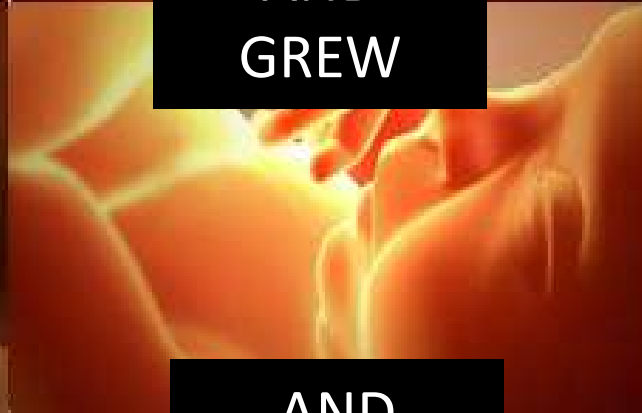
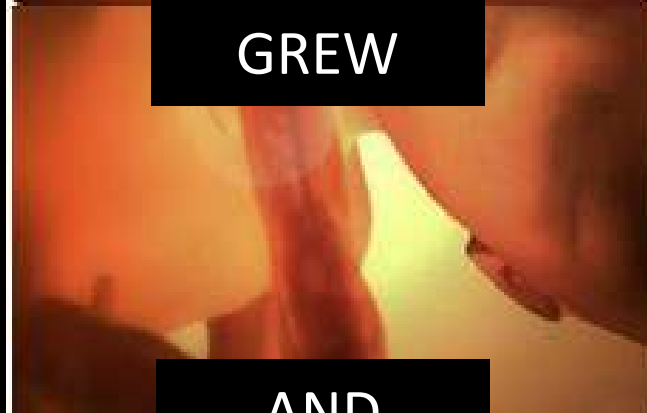
YOU
GREW



AND
GREW

AND
GREW

AND
GREW

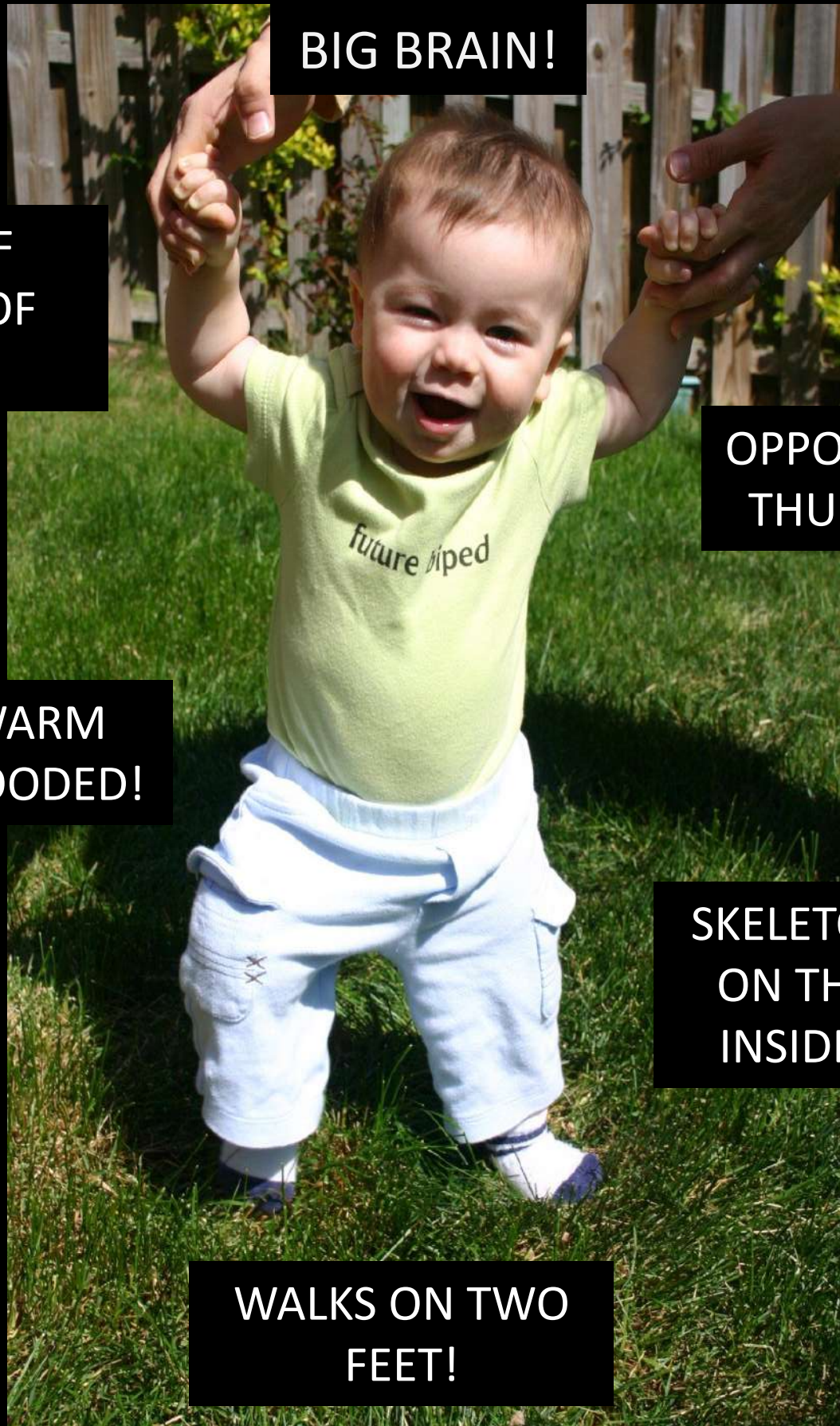


AND
GREW

AND
GREW

AND
GREW

YOU ARE *HOMO SAPIENS*!



BIG BRAIN!

LOTS OF
TEAMS OF
CELLS!

OPPOSABLE
THUMBS!

WARM
BLOODED!

SKELETON
ON THE
INSIDE!

WALKS ON TWO
FEET!

THERE ARE OVER 7,000,000,000 *HOMO SAPIENS*
ON PLANET EARTH



(PLUS A FEW OUT IN SPACE)
AND ANOTHER FOUR ARE BORN EVERY SECOND!

EVERY *HOMO SAPIENS* IS UNIQUE.



BUT WE ARE ALL PART OF A TEAM CALLED

CIVILIZATION



NEW YORK



DUBAI



RIO DE JANEIRO



HONG KONG

OUR CIVILIZATION ISN'T PERFECT

BUT WE ARE ALWAYS WORKING TO MAKE IT BETTER



MEDICINE



TECHNOLOGY



SCHOOLS



EXPLORATION



EVERY BIRTHDAY WE ARE SMARTER THAN WE WERE ON THE LAST BIRTHDAY,
JUST LIKE YOU GET SMARTER TOO

AS YOUR GUARDIAN
MY PURPOSE IS TO HELP YOU GROW UP
TO BE AS GOOD AS ME AT LIFE AND CONTRIBUTING TO CIVILIZATION.

YOUR PURPOSE IS TO GROW UP TO BE
EVEN BETTER THAN ME!

HOPEFULLY THIS BOOK HAS FILLED YOU WITH QUESTIONS

HERE'S SOME OF MY FAVORITE QUESTIONS

- WHERE DID THE DINOSAURS GO? (HINT: LOOK UP IN THE SKY AND TREES)
- WHY DOESN'T THE MOON ALWAYS LOOK ROUND?
- CAN YOU FIND YOUR HOUSE ON GOOGLE EARTH?
- IS THERE LIFE ON OTHER PLANETS? (HINT: SETI, EXOPLANETS)
- DOES THE EARTH HAVE A BIRTHDAY? (HINT: EQUINOXES, SOLSTICES)
- WHAT DOES IT MEAN THAT FOUR HOMO SAPIENS ARE BORN EVERY SECOND? (TRY COUNTING IN MULTIPLES OF FOUR)
- CAN YOU FIND THE PLANETS ON GOOGLE SKY?
- CAN YOU FIND AND NAME THE ANIMALS AND PLANTS IN THIS BOOK?
- EVERYTHING ON EARTH IS POWERED BY THE SUN, EVEN YOU. CAN YOU FIGURE OUT HOW YOU ARE POWERED BY THE SUN? CAN YOU FIGURE OUT HOW A CAR, LIGHT BULB, OR RIVER RUNS ON THE SUN?
- WHAT MAKES IT COLD IN THE WINTER AND WARM IN THE SUMMER?
- ANIMALS AND PLANTS CHANGING OVER BILLIONS OF YEARS IS CALLED "EVOLUTION," IS LIFE STILL EVOLVING TODAY? ARE PEOPLE EVOLVING STILL?
- WHERE DID THE FIRST CELL COME FROM?

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