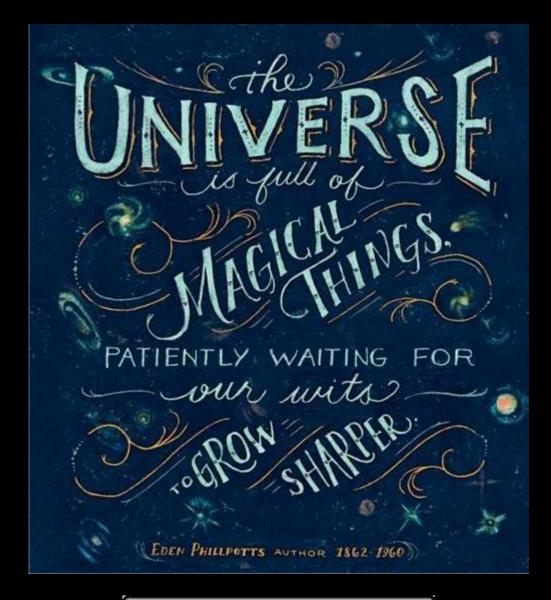
# WELCOME TO LIFE

## 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

> 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 MILKY WAY IS A <u>GALAXY</u>.

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...

THE UNIVERSE IS EVERYTHING THERE IS.

# SO HOW DID YOU GET HERE?

ON A PLANET...

#### GOING AROUND A STAR...

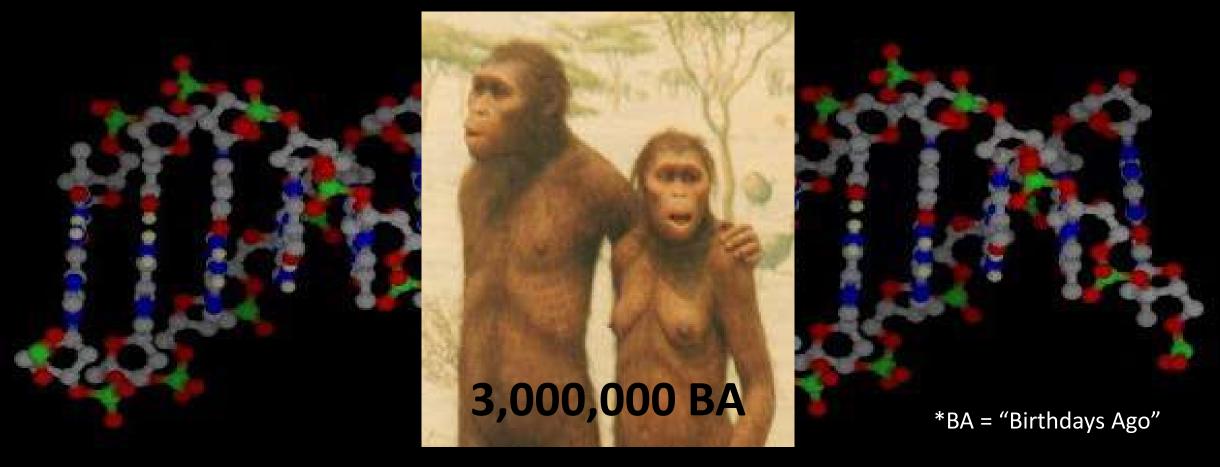


# ...IN A UNIVERSE FULL OF GALAXIES?

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 GR



#### **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

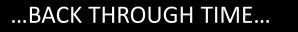


60,000,000 BA



210,000,000 BA

ON AND ON...







295,000,000 BA



375,000,000 BA



480,000,000 BA

#### GETTING MORE AND MORE SIMPLE OVER HUNDREDS OF MILLIONS OF YEARS







1,500,000,000 BA

530,000,000 BA

550,000,00 BA

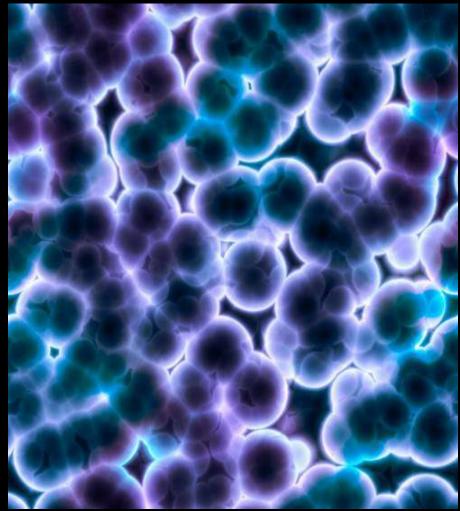
# ALL THE WAY BACK TO THIS

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.

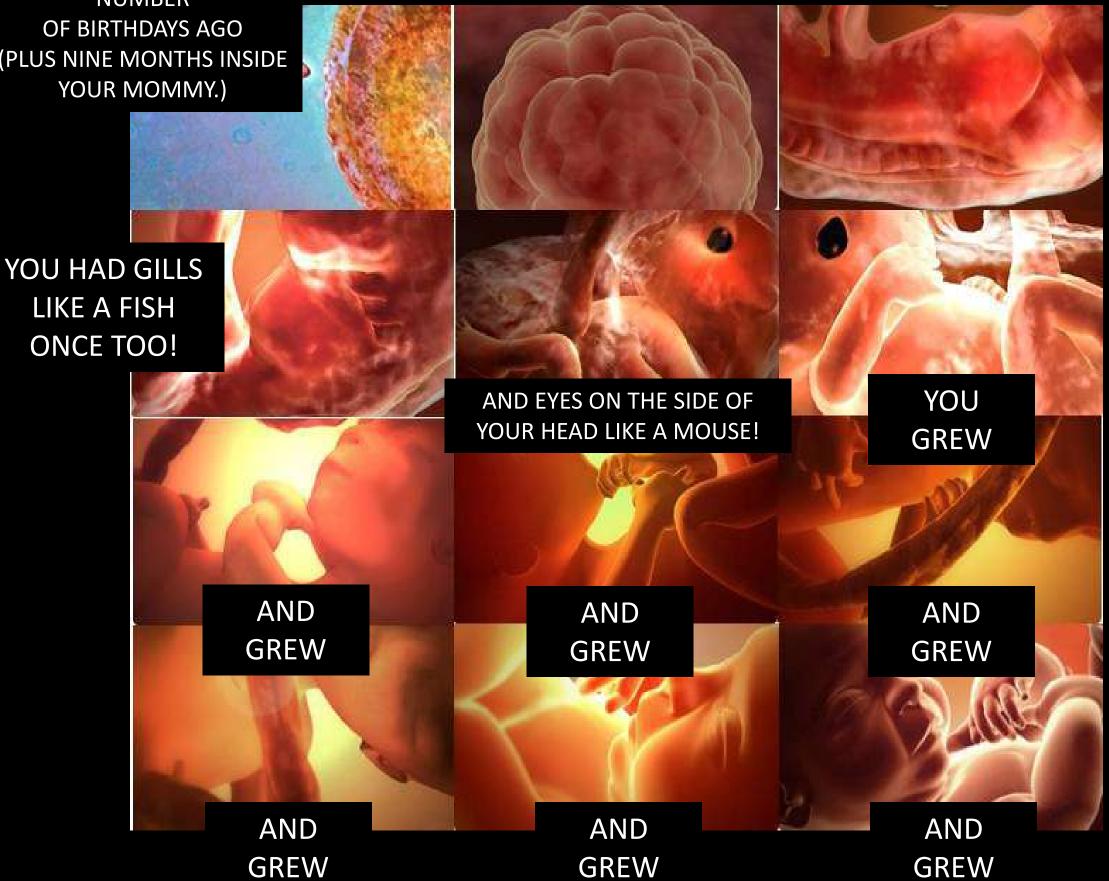


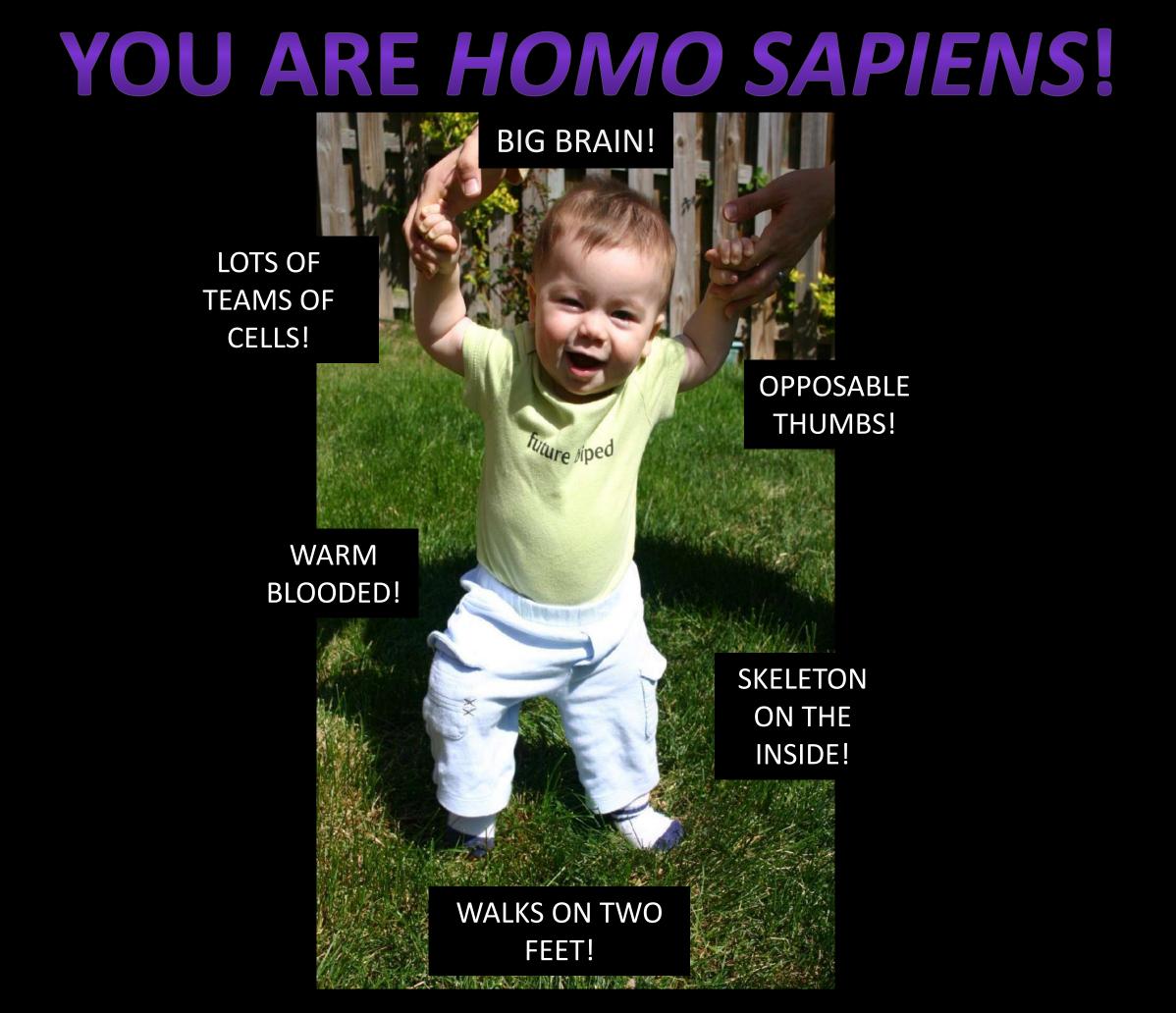
SOME MONKEYS EVENTUALLY BECAME HOMO SAPIENS!

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

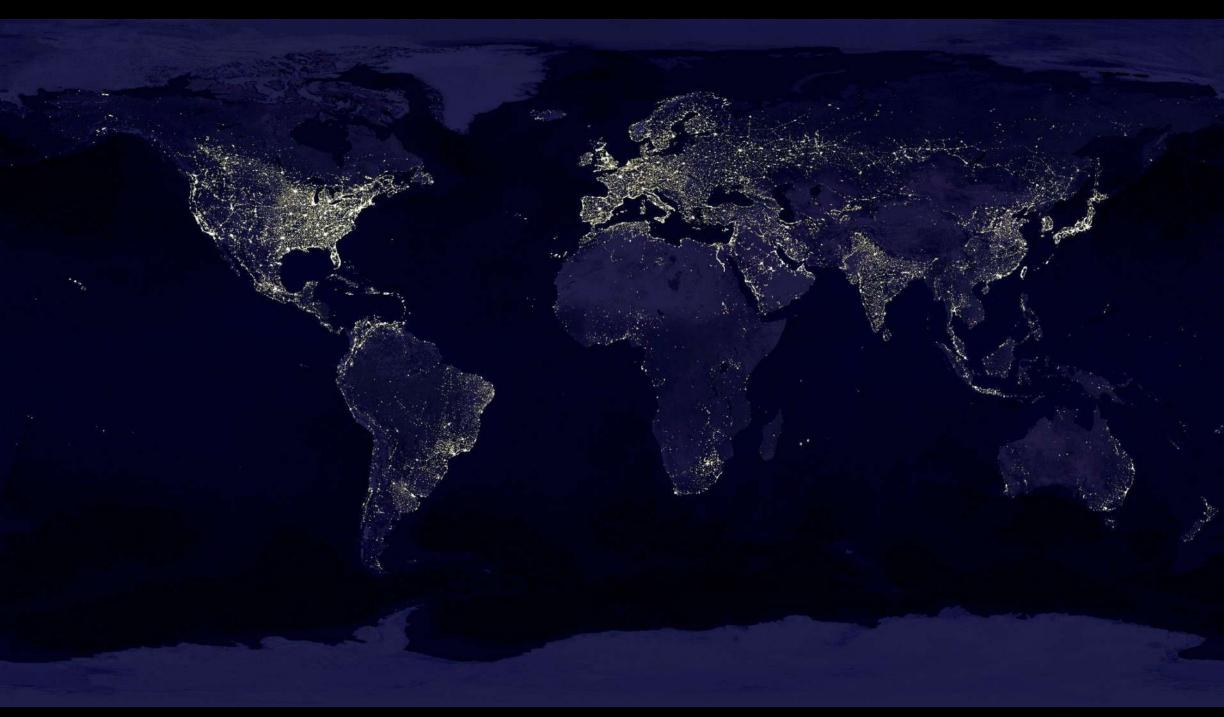
#### A FEW HOURS LATER YOU GREW UP TO BE THIS

#### YOU HAD A TAIL LIKE A LIZARD ONCE!





### 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



NEW YORK

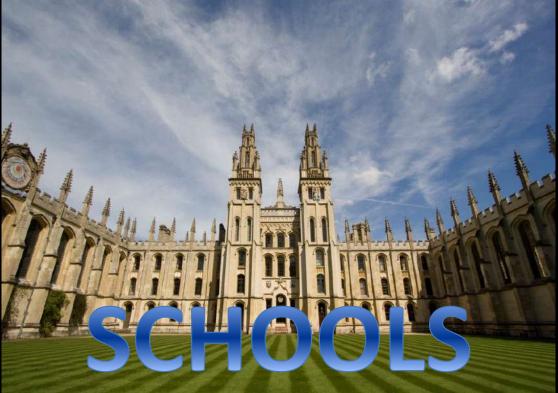


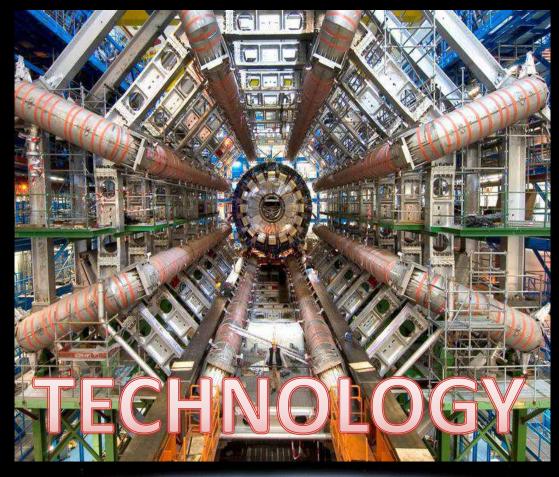




### OUR CIVILIZATION ISN'T PERFECT BUT WE ARE ALWAYS WORKING TO MAKE IT BETTER







# EXPLORATION

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

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

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

### 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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