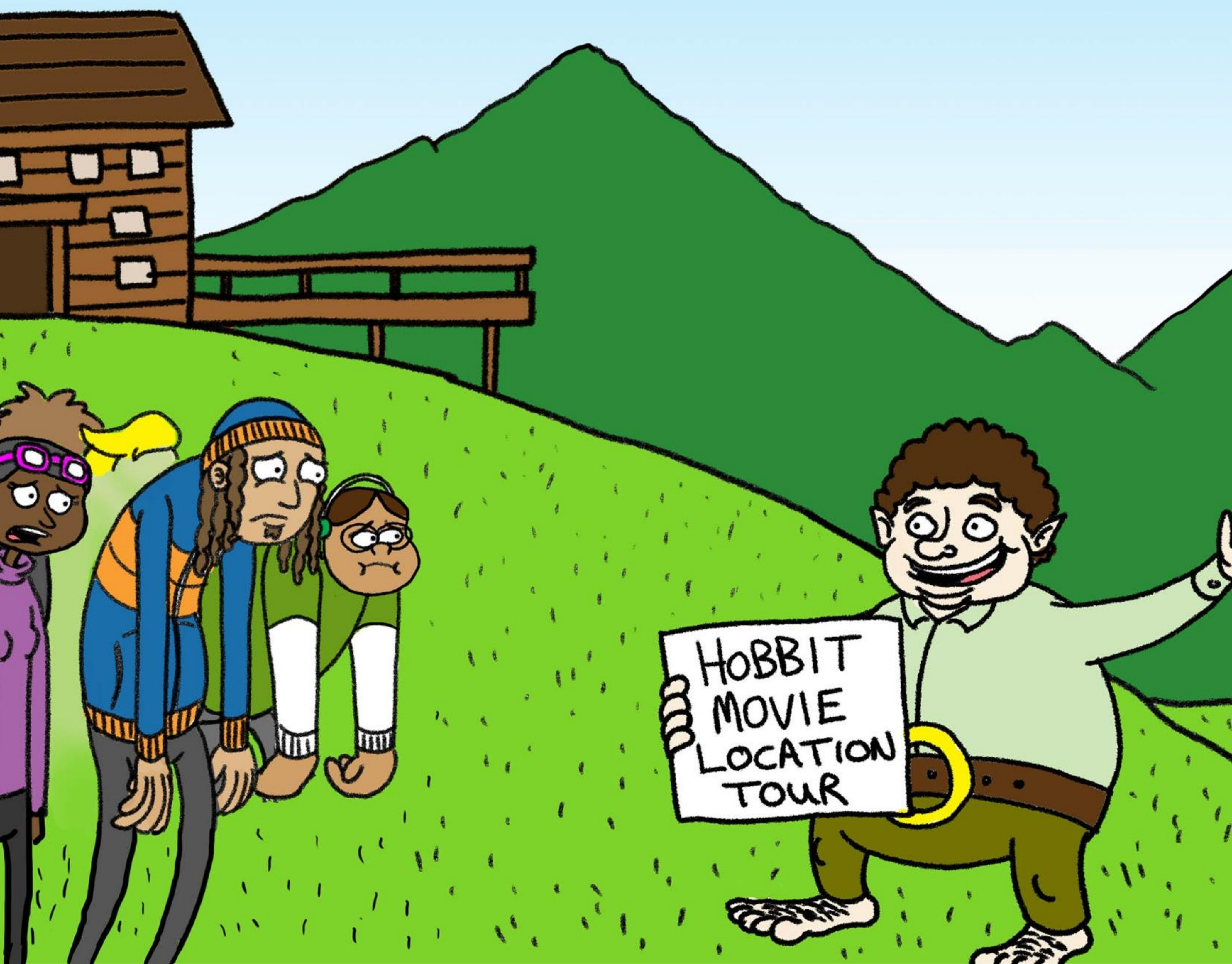
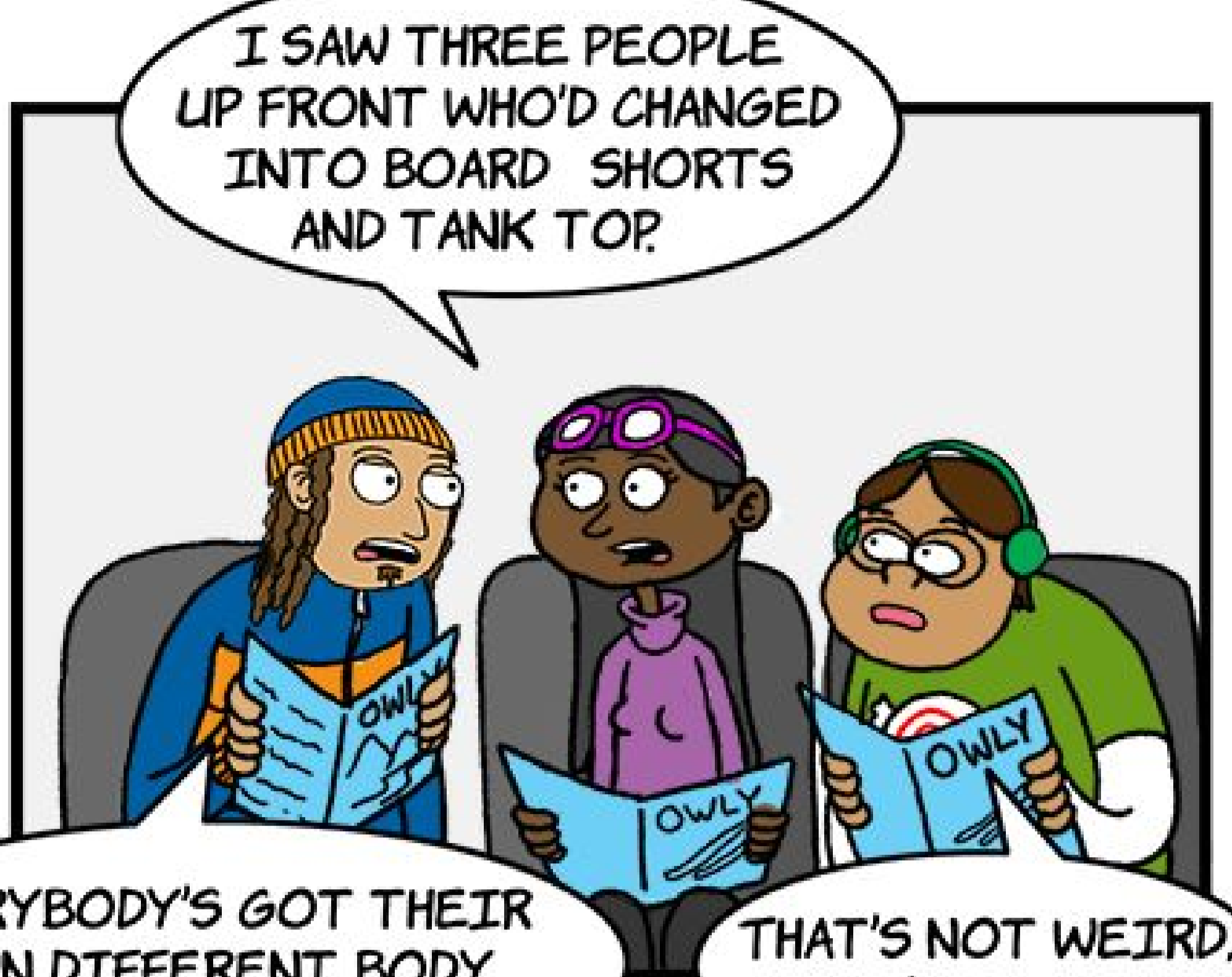


**MOSA MACK  
AND THE  
CASE OF THE  
MISSING WINTER**





DUDE, SOMETHING'S WEIRD.



I SAW THREE PEOPLE UP FRONT WHO'D CHANGED INTO BOARD SHORTS AND TANK TOP.

EVERYBODY'S GOT THEIR OWN DIFFERENT BODY TEMPERATURE, DUDE.

THAT'S NOT WEIRD, THAT'S SCIENCE.



BUT NEVE, WE'RE THE ONLY PEOPLE ON THE PLANE WITH SKIS AND GEAR! I THOUGHT YOU SAID EVERYBODY COMES TO NEW ZEALAND TO SKI IN THE WINTER!

AND I STAND BY MY WORDS, BOONA.

TRUST, BOONA! NEVE KNOWS!

WHEN IT COMES TO SEASONS, I KNOW MY STUFF.

DUDE, IT WAS WINTER IN COLORADO WHEN WE LEFT, RIGHT?

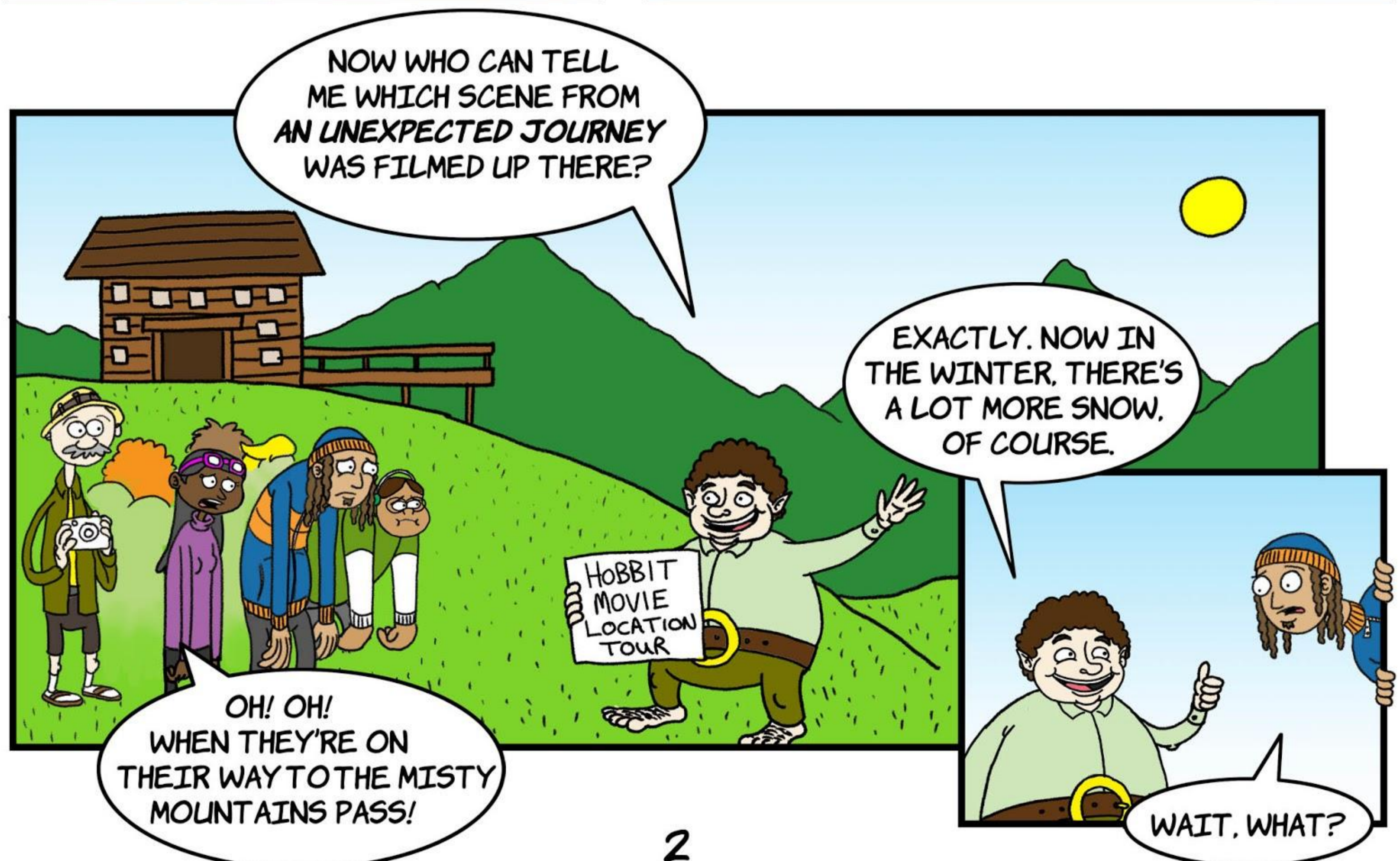
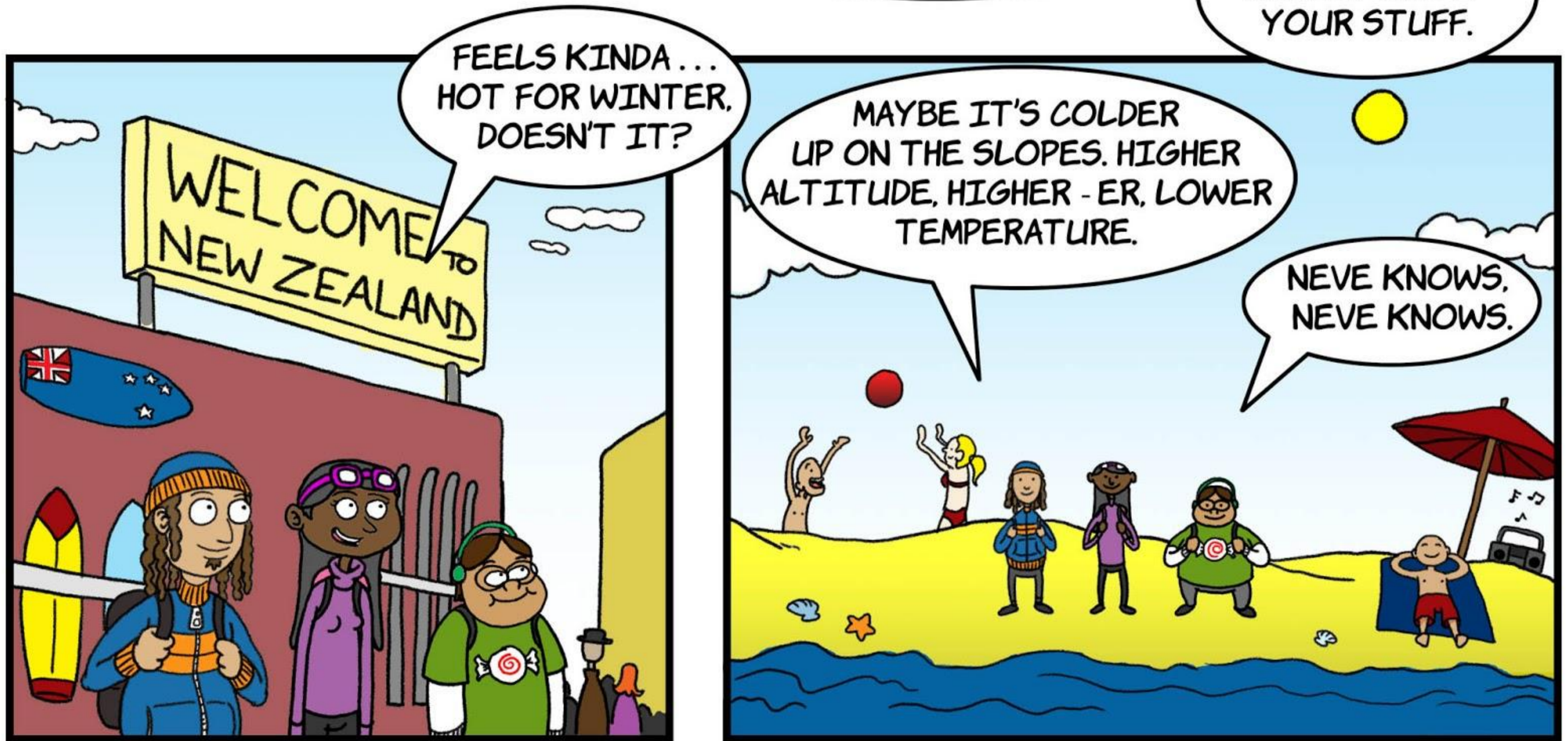
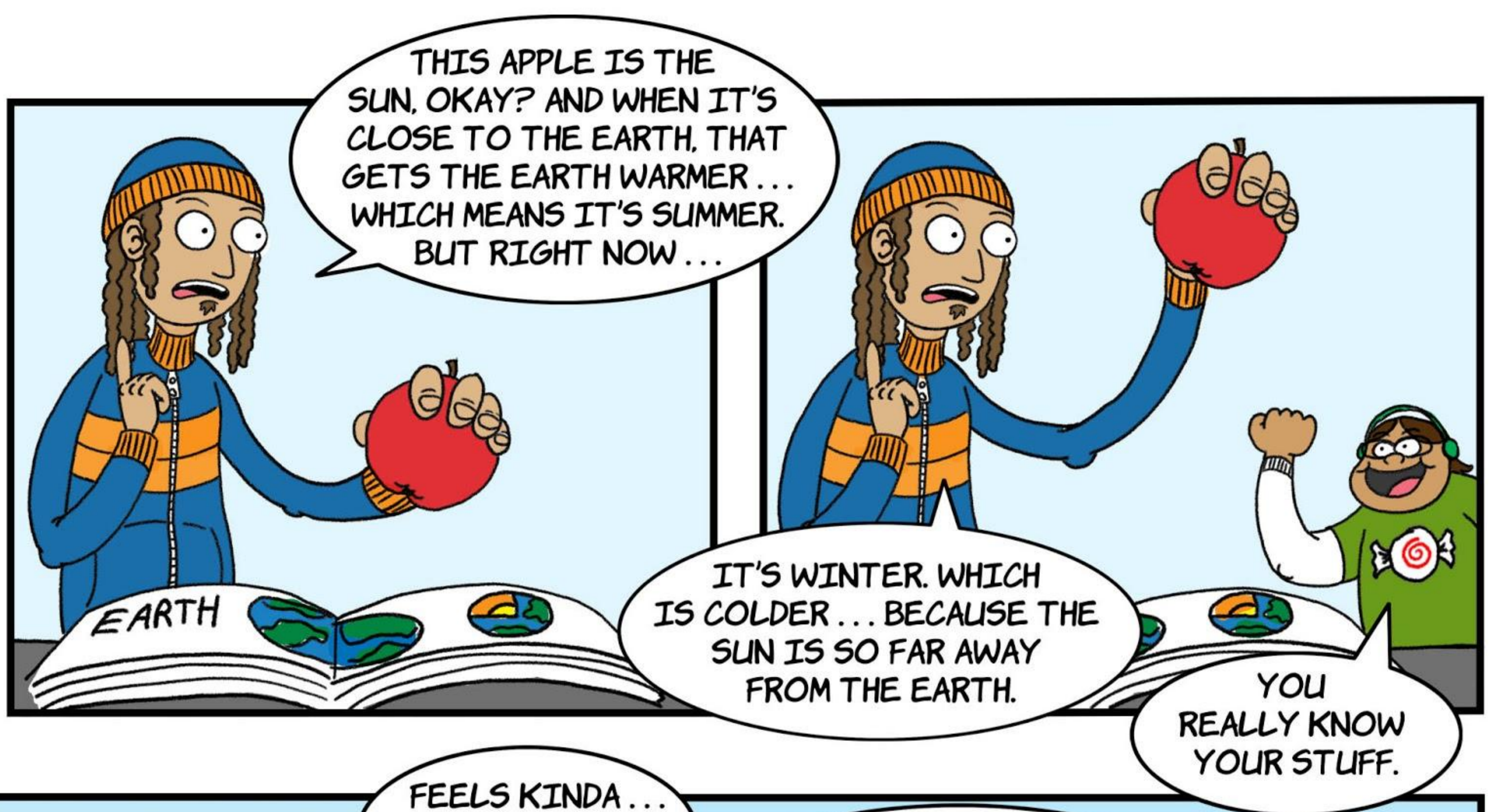
ARE YOU SURE IT'S GONNA BE WINTER WHEN WE GET THERE? OTHERWISE, WE WON'T HAVE JOBS!



WE HAVEN'T BEEN ON THE PLANE FOR SIX MONTHS, HAVE WE?



WELCOME TO ANOTHER EPISODE OF HOW NEVE THINKS THINGS WORK, BY NEVE ☺





YOU MEAN, IT'S NOT WINTER NOW?

NOPE. HERE IN NEW ZEALAND, IT'S SUMMER!



HOW CAN THE SEASONS BE DIFFERENT IN NEW ZEALAND?!?!

IF IT'S NOT WINTER, THAT MEANS IT'S NOT SKI SEASON!

AND THAT MEANS NOBODY'S GONNA HIRE SKI INSTRUCTORS!



I SLEPT THROUGH THE HOBBIT MOVIES, MOSA! MY ONLY SKILL IS TEACHING PEOPLE HOW TO SKI ... AND THANKS TO SOME CRAZY TIME WARP, IT'S SUMMER WHEN IT SHOULD BE WINTER!

I'M PRETTY SURE THERE WASN'T A TIME-WARP WHEN YOU WERE ON THE PLANE, NEVE.



ACTUALLY, WE'RE HIRING TOUR GUIDES! HAVE YOU SEEN THE HOBBIT MOVIES?

WE JUST CAME FROM NORTH AMERICA, LIKE YOU DID, AND IT'S DEFINITELY STILL WINTER UP THERE.

THAT THING'S JUST A TOY! WELCOME TO ANOTHER EPISODE OF...



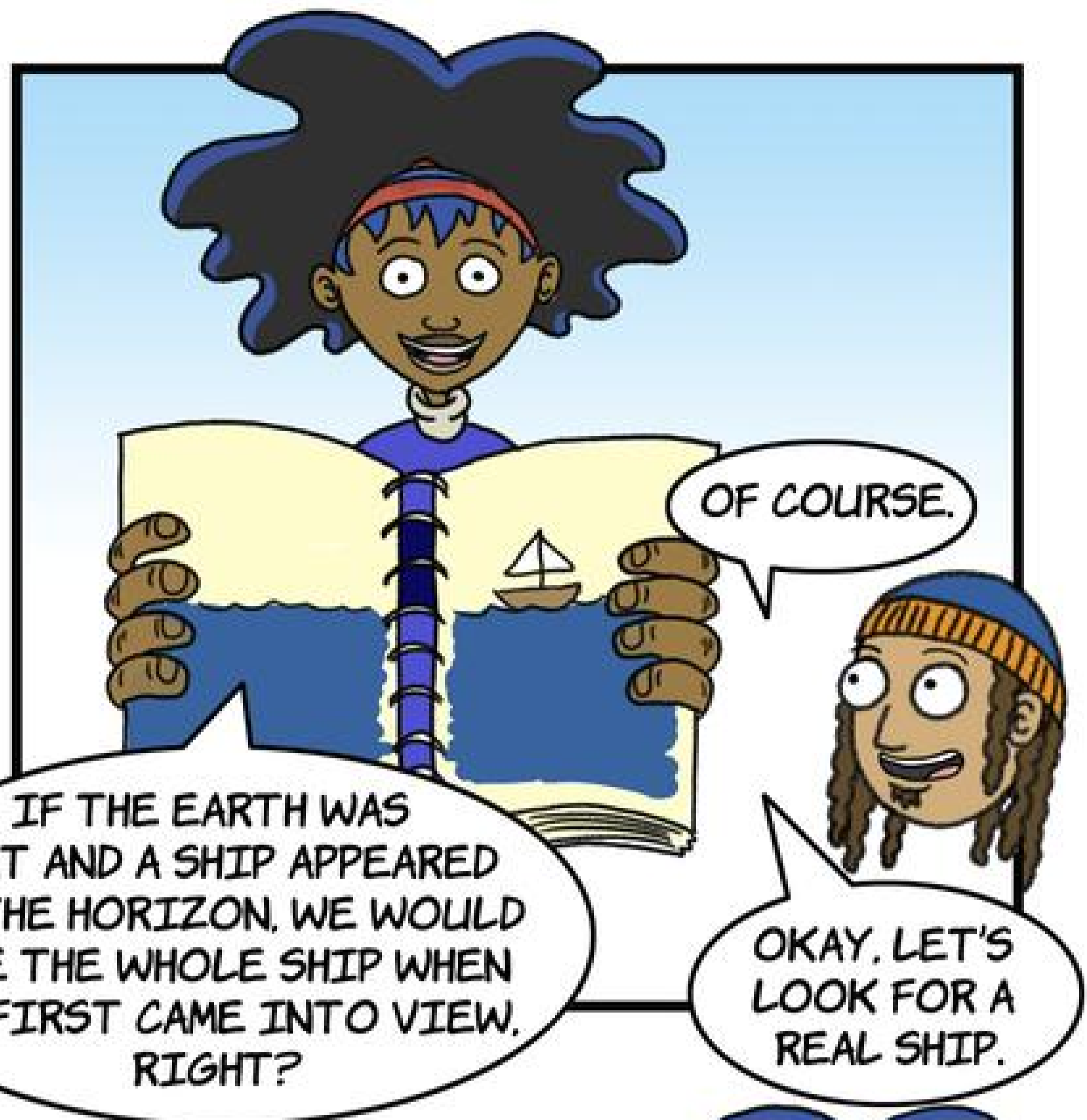
HOW NEVE THINKS THING WORK, BY NEVE.

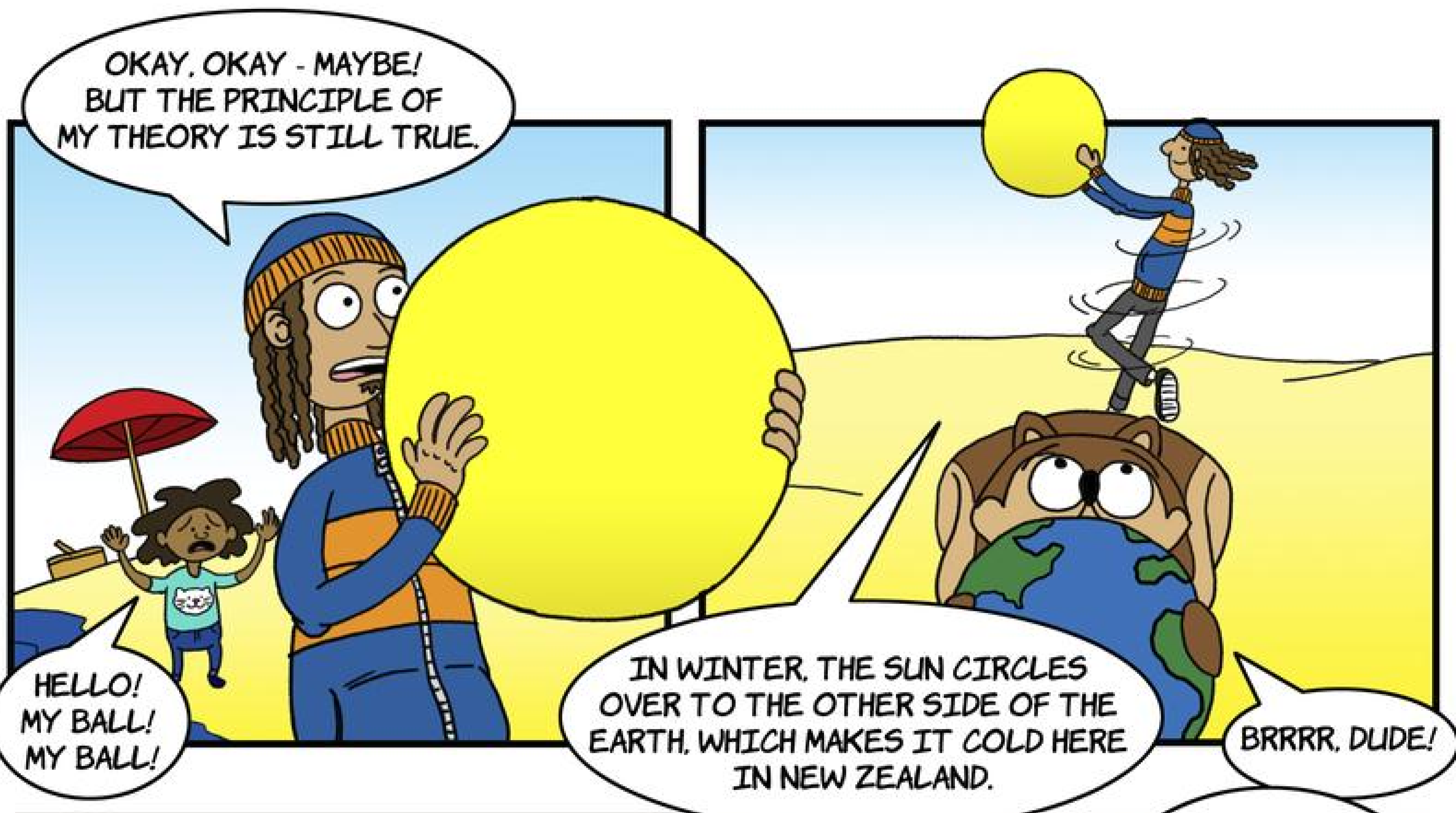


THIS IS WHAT THE EARTH REALLY LOOKS LIKE.

YOU TOOK THE IN-FLIGHT MAGAZINE?!

IT SAYS "COMPLIMENTARY" RIGHT ON THE COVER!



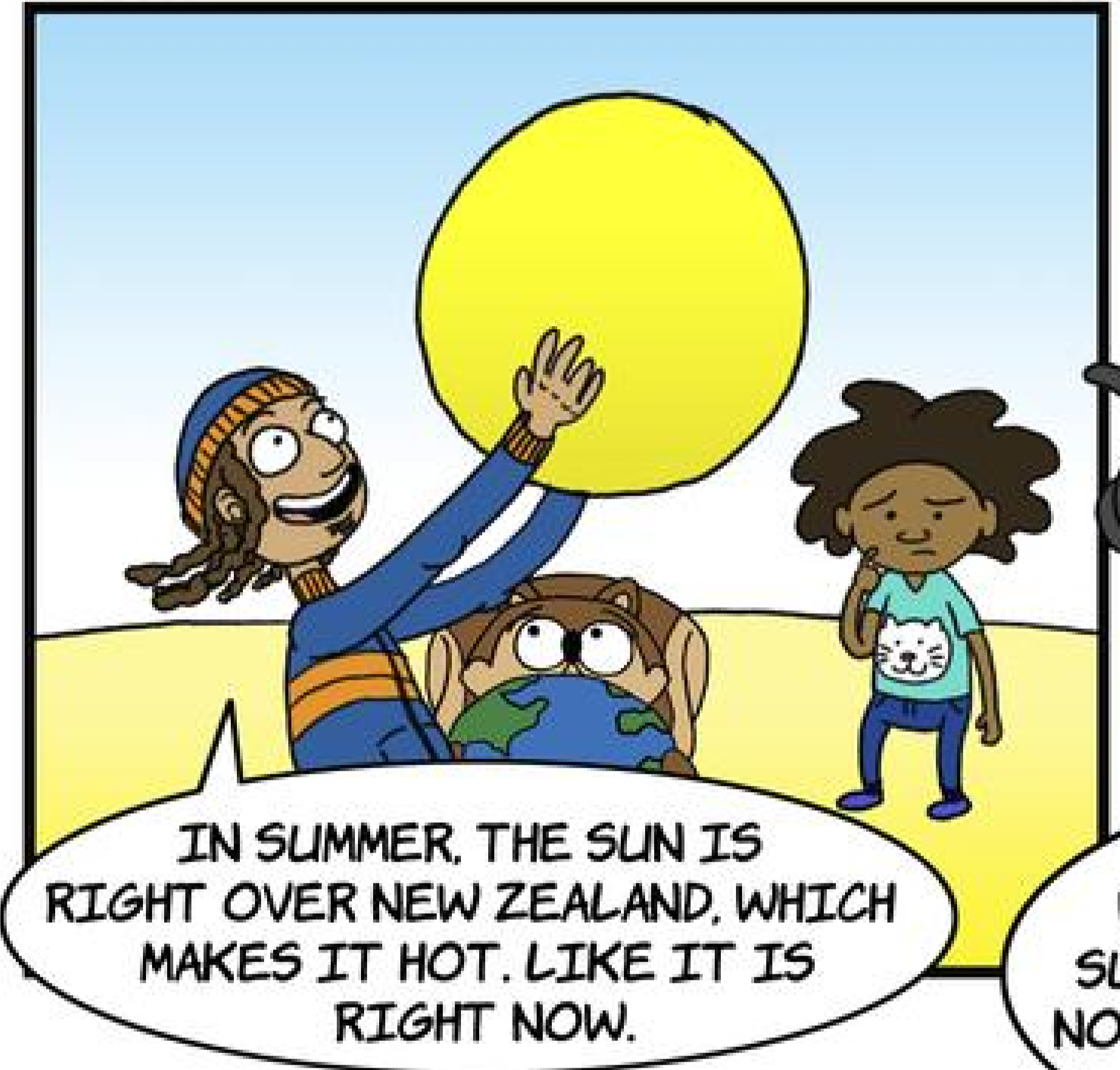


OKAY, OKAY - MAYBE!  
BUT THE PRINCIPLE OF  
MY THEORY IS STILL TRUE.

HELLO!  
MY BALL!  
MY BALL!

IN WINTER, THE SUN CIRCLES  
OVER TO THE OTHER SIDE OF THE  
EARTH, WHICH MAKES IT COLD HERE  
IN NEW ZEALAND.

BRRRR. DUDE!



IN SUMMER, THE SUN IS  
RIGHT OVER NEW ZEALAND, WHICH  
MAKES IT HOT. LIKE IT IS  
RIGHT NOW.



NO DISRESPECT,  
DUDE... BUT THAT  
WOULD MEAN ONE  
WHOLE SIDE OF THE  
EARTH DOESN'T HAVE  
SUN FOR AN ENTIRE  
SEASON.

AND IN FACT,  
WE HAVE SUN AND NO  
SUN EVERY SINGLE DAY,  
NO MATTER WHAT SEASON  
IT IS.

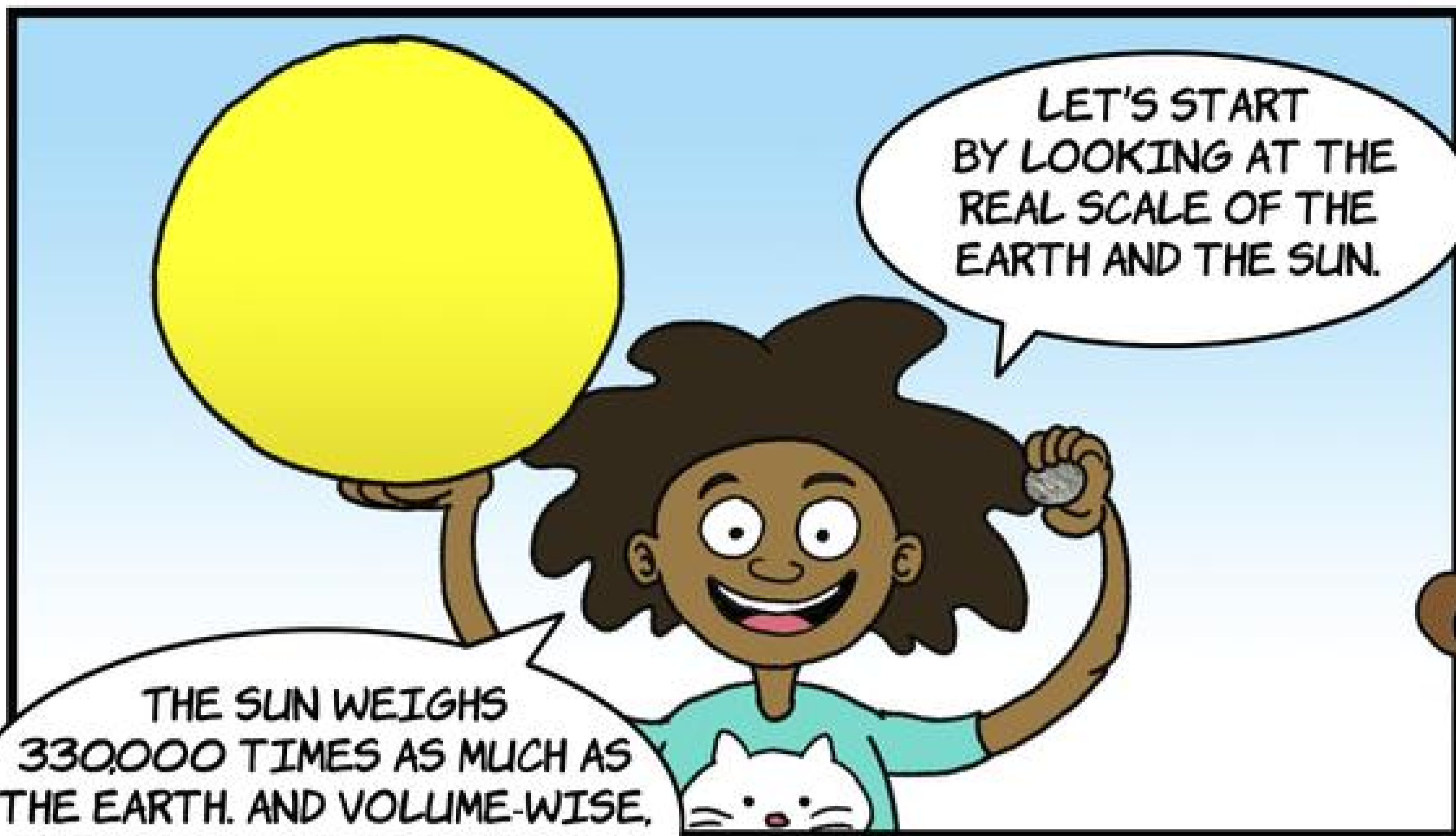


HEY! CHECK OUT WHAT  
LIL' SQUIRREL'S DOING!  
MAYBE -- MAYBE THE EARTH  
SPINS, TOO! ONE SPIN  
FOR EVERY DAY.

SO THE SPINNING  
SUN ORBITS THE  
SPINNING EARTH?



ACTUALLY,  
IT'S THE OPPOSITE.  
MY PARENTS ARE  
ASTRONOMERS.



LET'S START BY LOOKING AT THE REAL SCALE OF THE EARTH AND THE SUN.

THE SUN WEIGHS 330,000 TIMES AS MUCH AS THE EARTH. AND VOLUME-WISE, GUESS HOW MANY EARTHS FIT INTO THE SUN?  
1300,000.



YOU DIDN'T LET ME GUESS!!



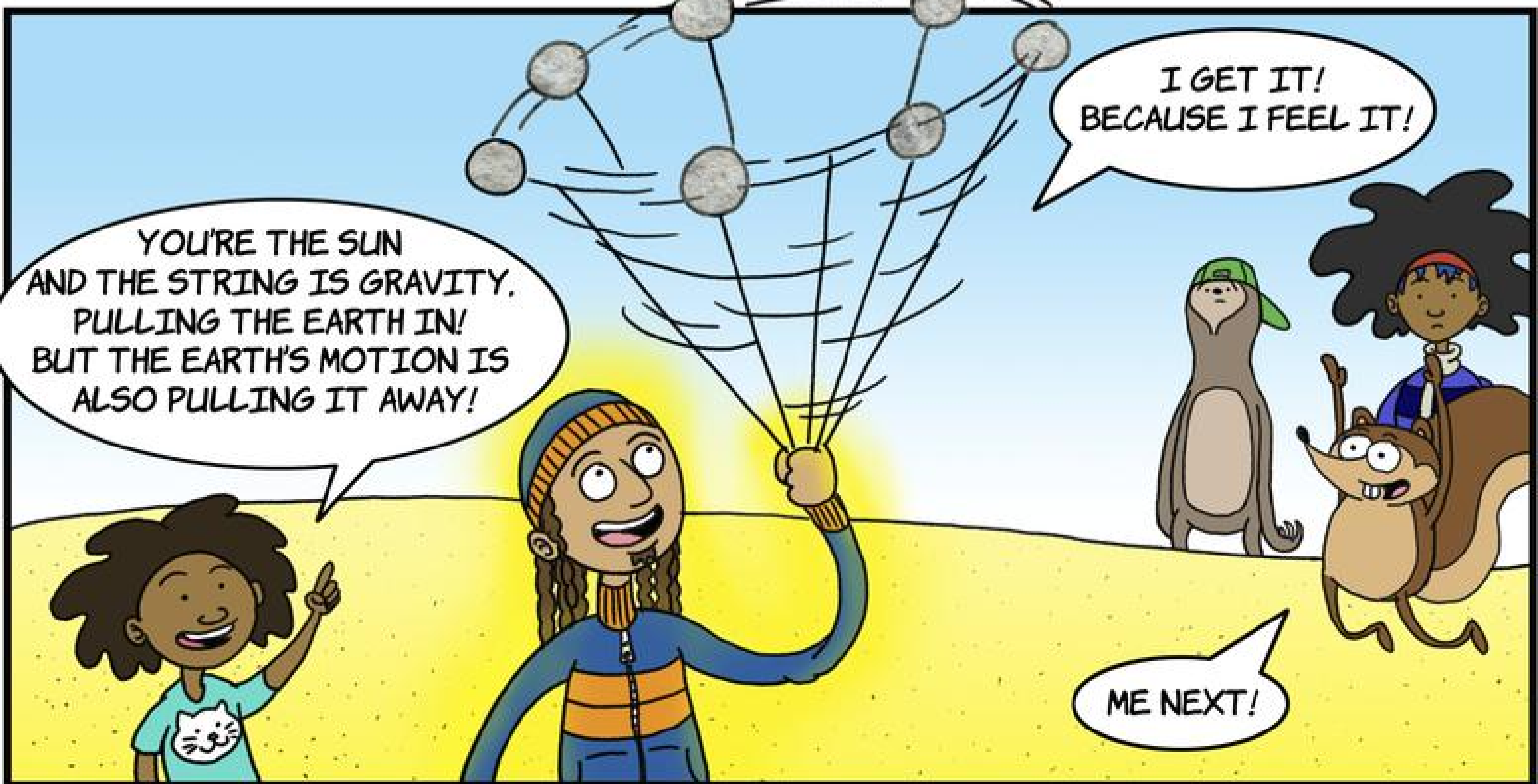
HEAVIER OBJECTS EXERT A PULL ON LIGHTER OBJECTS... CALLED GRAVITY.

WE KNOW WHAT THAT IS!



OKAY, JUNIOR GENIUS. HOW COME THE SUN DOESN'T PULL THE EARTH RIGHT INTO IT?!

HMM, LET'S TRY A DEMO.



YOU'RE THE SUN AND THE STRING IS GRAVITY, PULLING THE EARTH IN! BUT THE EARTH'S MOTION IS ALSO PULLING IT AWAY!

I GET IT! BECAUSE I FEEL IT!

ME NEXT!

SO...

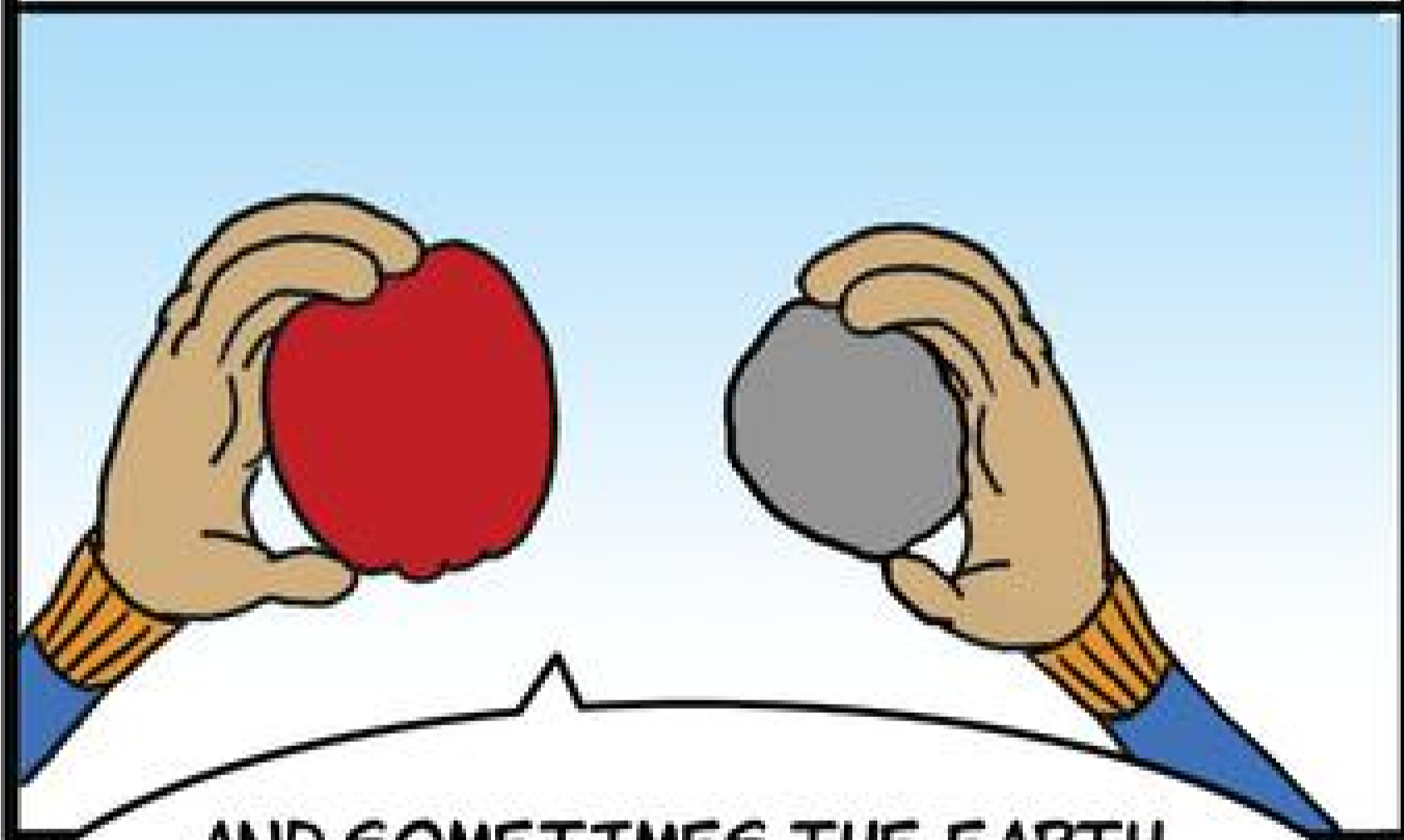
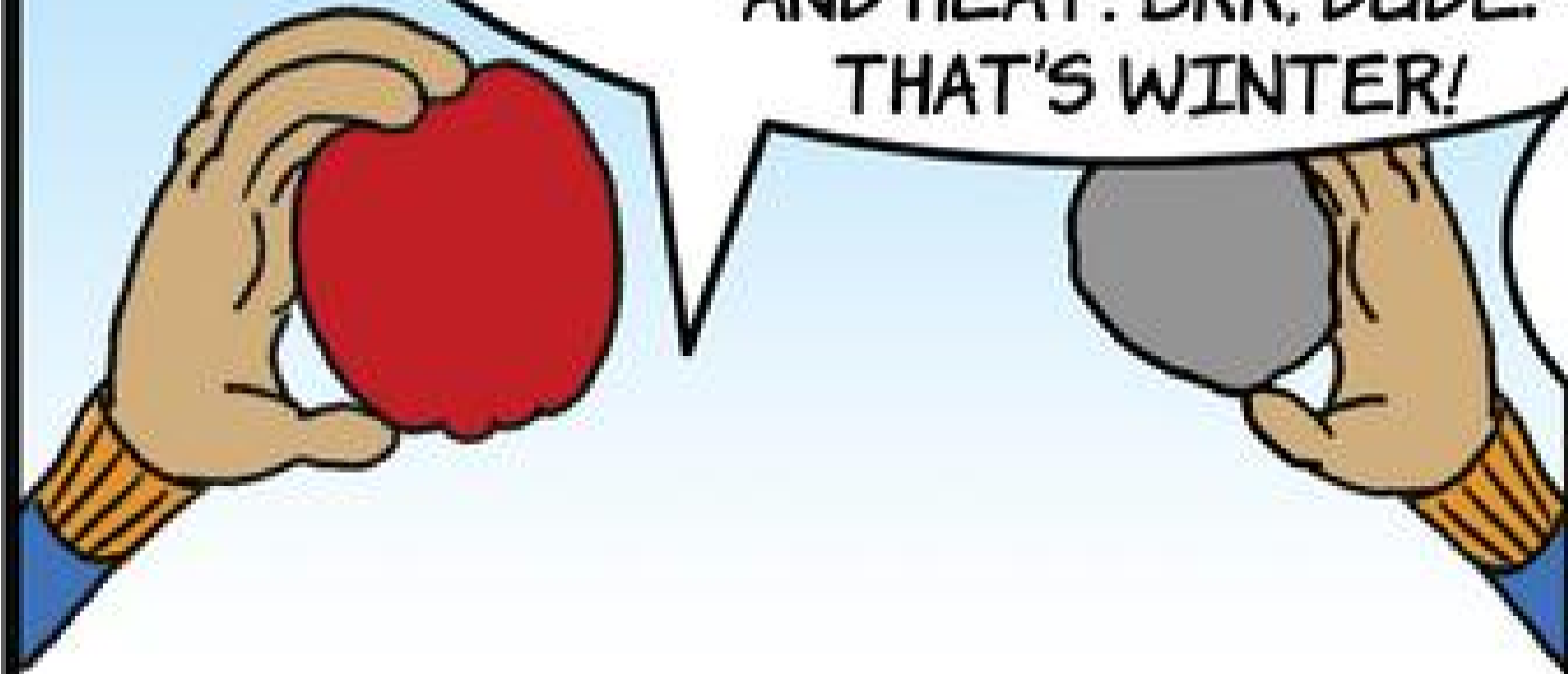
THE EARTH ORBITS THE SUN. AND THE EARTH ITSELF SPINS AROUND ONCE A DAY, WHICH IS WHAT GIVES US DAY AND NIGHT. BUT I STILL DON'T UNDERSTAND WHAT MAKES SEASONS!

I COULD ASK MY PARENTS... BUT IT'S WAY MORE FUN FIGURING IT OUT ON OUR OWN!

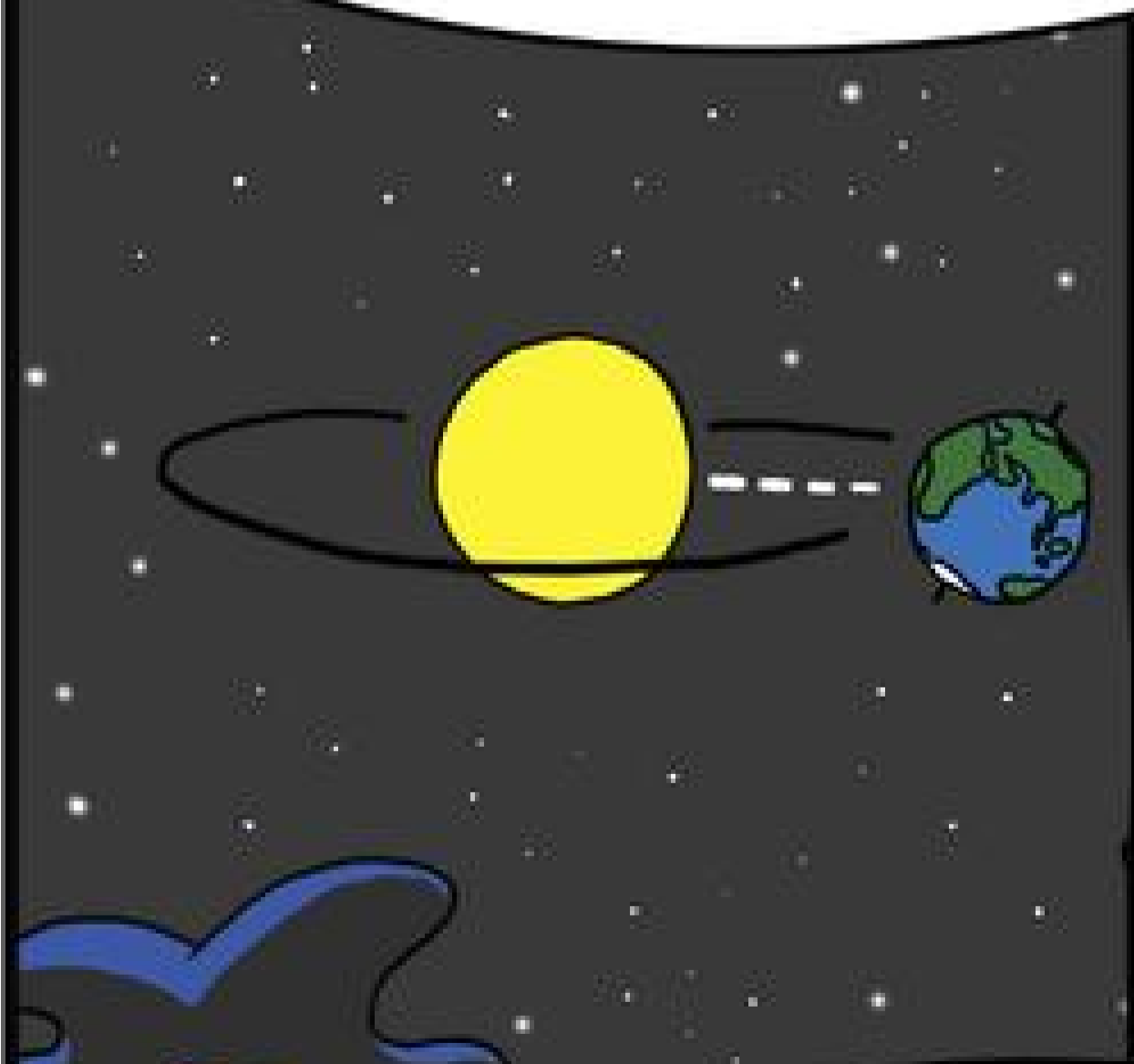
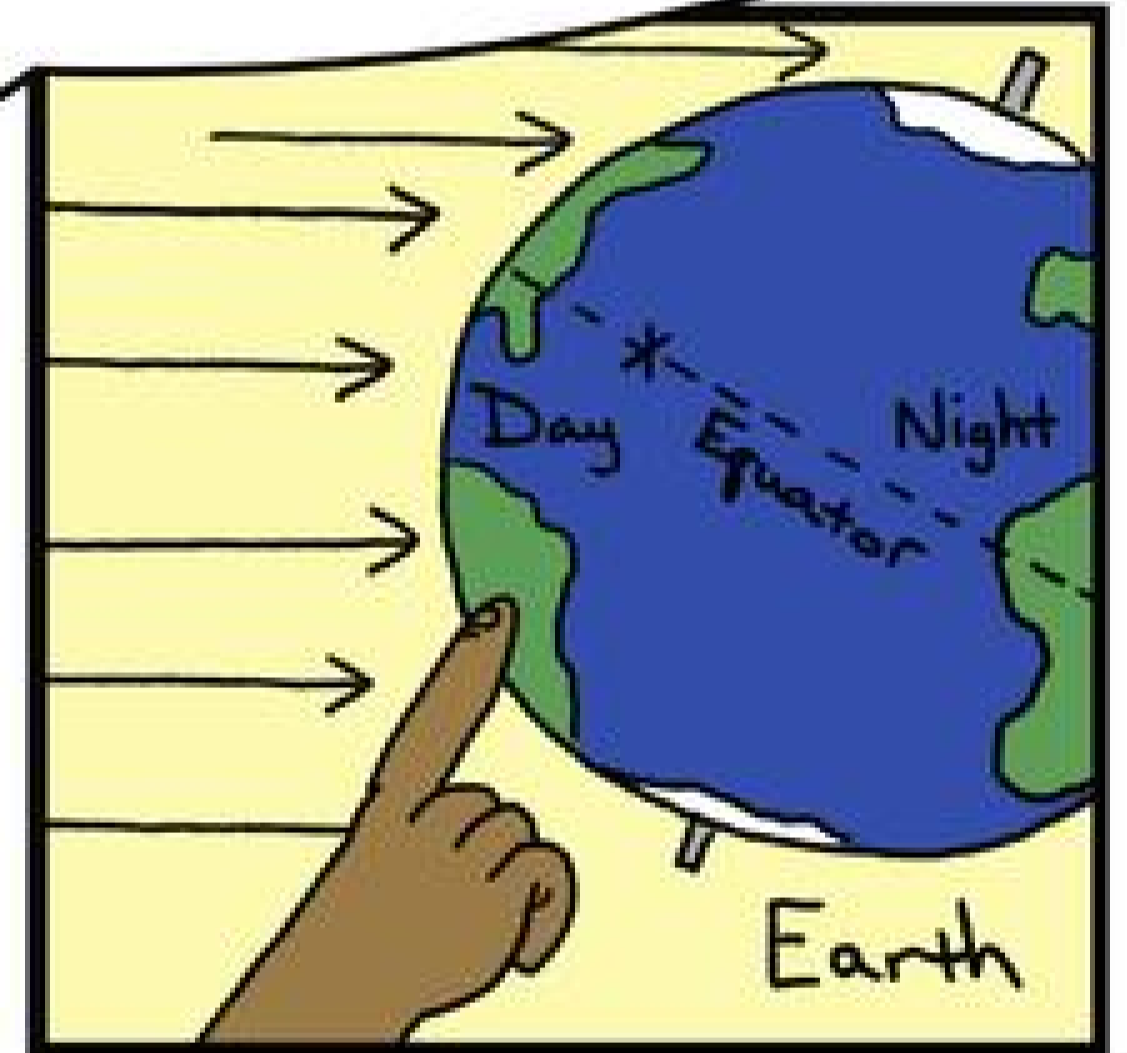
PLEASE JUST ASK YOUR PARENTS.

LIKE I SAID ON THE PLANE... SOMETIMES THE EARTH IS REALLY FAR AWAY FROM THE SUN. SO THE EARTH'S GETTING LESS LIGHT AND HEAT. BRR, DUDE: THAT'S WINTER!

BUT IF THAT'S HOW IT WORKED... THEN THE EQUATOR WOULD GET COLD ALONG WITH THE REST OF THE EARTH. AND WHEN WE WERE HELPING THOSE WEDDING PLANNERS, WE LEARNED THAT THERE AREN'T REALLY SEASONS AT THE EQUATOR. THE TEMPERATURE IS THE SAME, ALL YEAR ROUND.



AND SOMETIMES THE EARTH IS CLOSER TO THE SUN, WHICH MAKES THE EARTH WARMER. THAT'S SUMMER, WHAT WE'VE GOT RIGHT NOW.



WHICH MEANS: THE EARTH IS ALWAYS PRETTY MUCH THE SAME DISTANCE AWAY FROM THE SUN.

EVERYTHING I THOUGHT... IS WRONG. I'VE LET DOWN MY BUDDIES, AND MYSELF. AND WORST OF ALL... SOMEWHERE IN THE WORLD, THERE ARE PEOPLE WHO DON'T KNOW HOW TO SKI... AND I CAN'T HELP THEM!





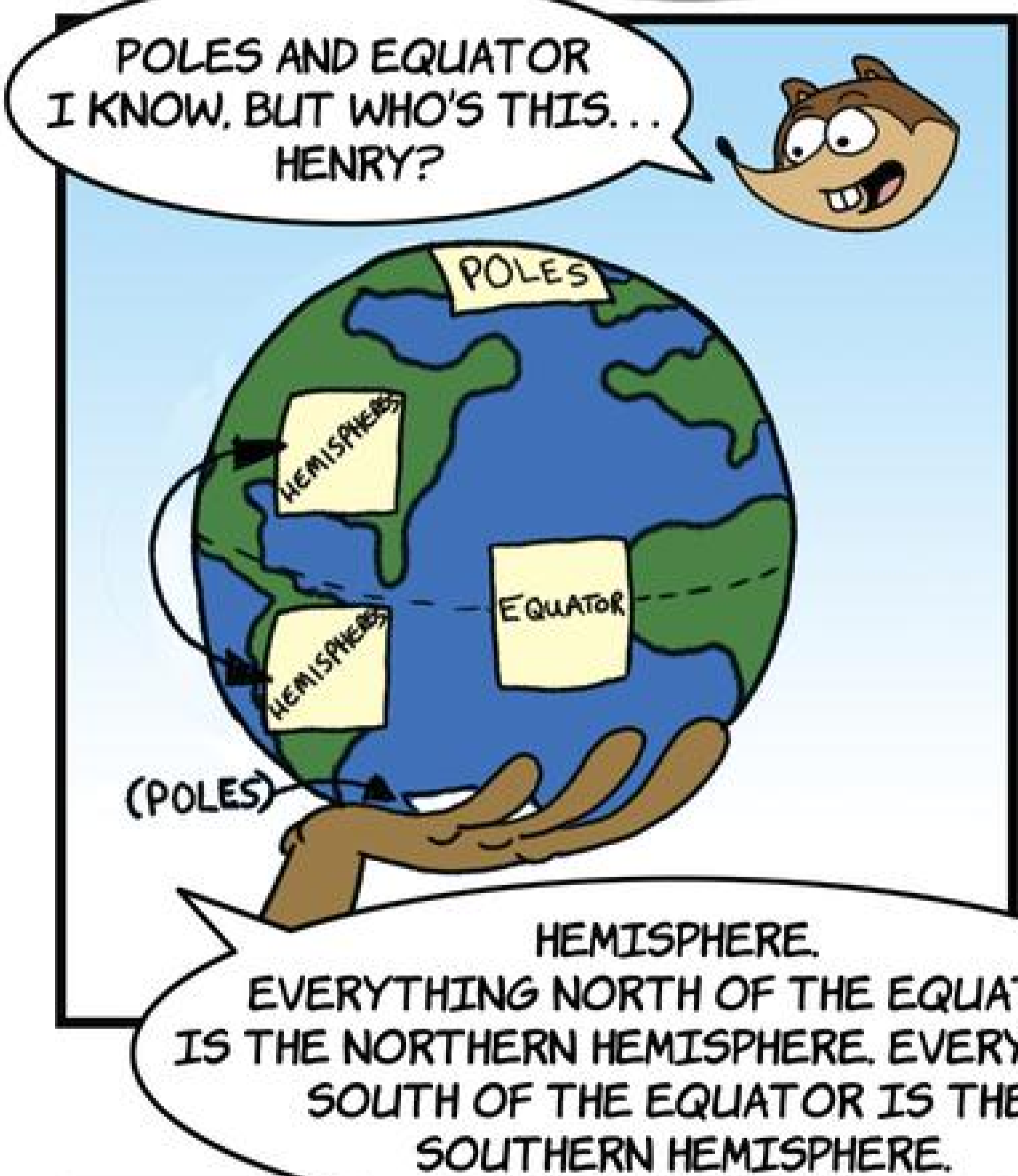
SO WHY ARE SOME PARTS OF THE EARTH COLDER AND SOME PARTS WARMER?

CAN YOU ASK YOUR PARENTS ALREADY? MY JAM-OF-THE-MONTH IS WAITING FOR ME BACK HOME.



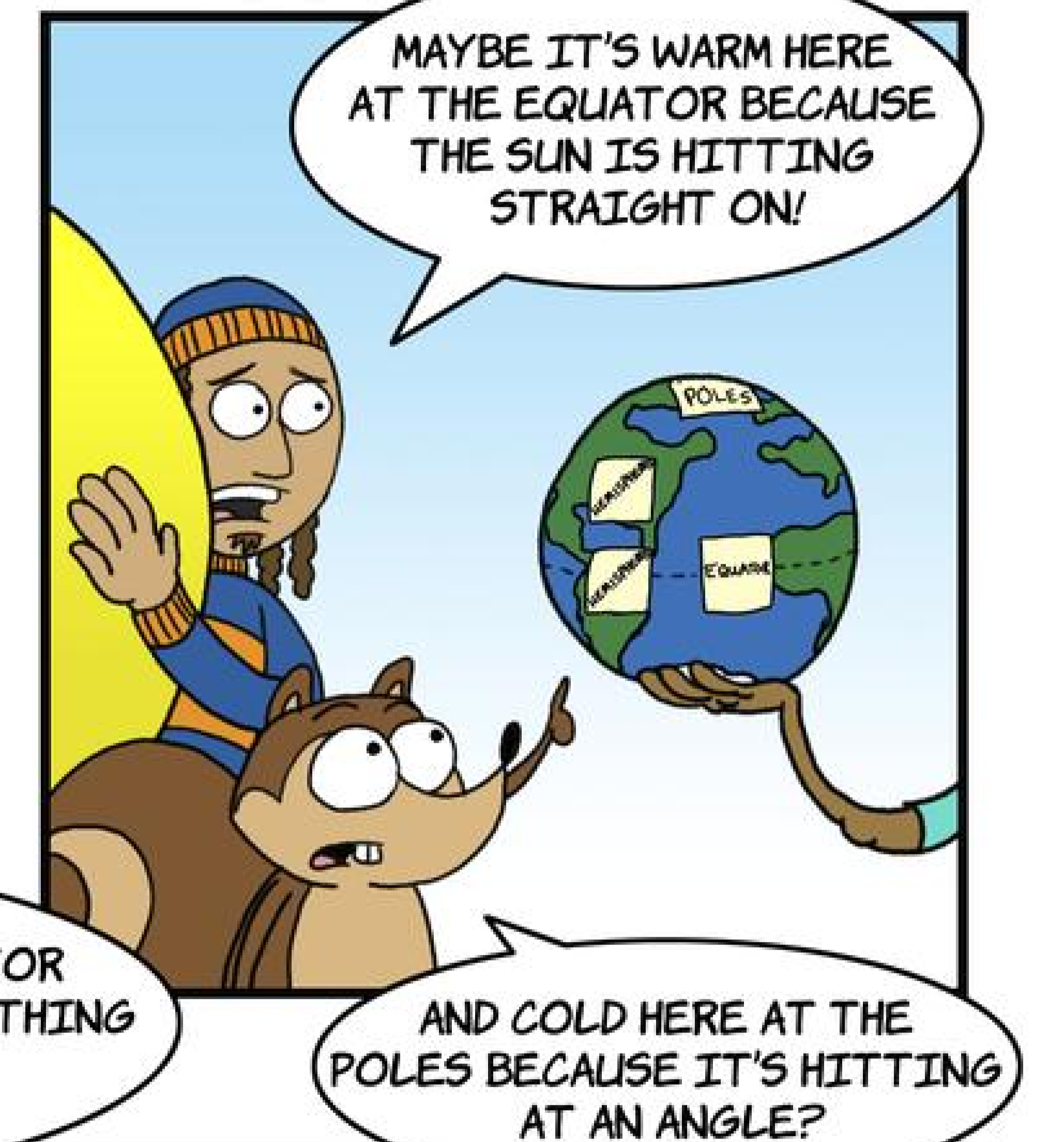
FOR THIS QUESTION, I THINK WE NEED A CLOSE-UP ON THE EARTH! NOW I KNOW THE BALL ISN'T THE RIGHT SCALE, BUT IT'S MUCH EASIER TO LOOK AT THAN A PEBBLE!

SOON, BLUEBERRY-BLING, SOON.



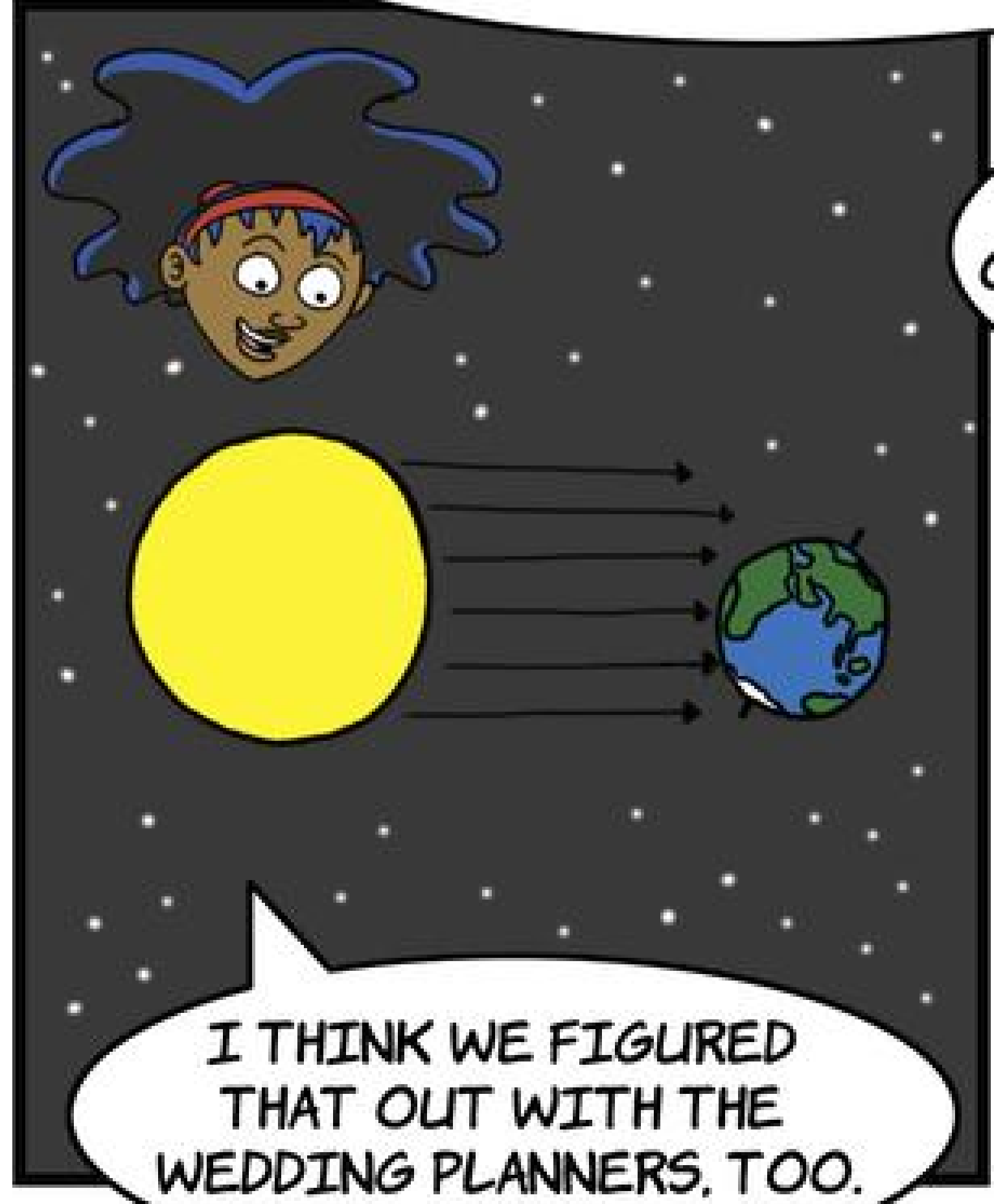
POLES AND EQUATOR I KNOW, BUT WHO'S THIS... HENRY?

HEMISPHERE. EVERYTHING NORTH OF THE EQUATOR IS THE NORTHERN HEMISPHERE. EVERYTHING SOUTH OF THE EQUATOR IS THE SOUTHERN HEMISPHERE.

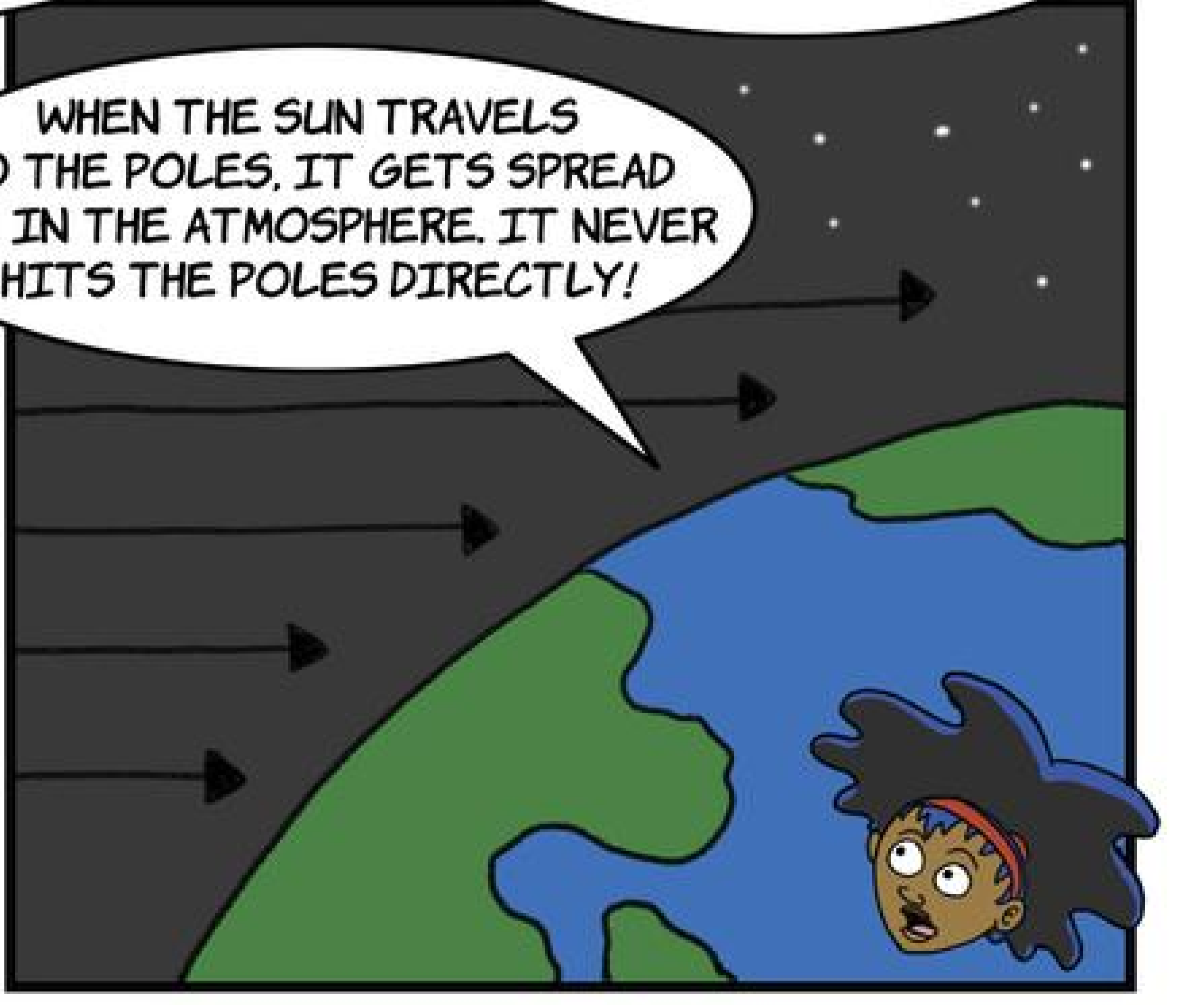


MAYBE IT'S WARM HERE AT THE EQUATOR BECAUSE THE SUN IS HITTING STRAIGHT ON!

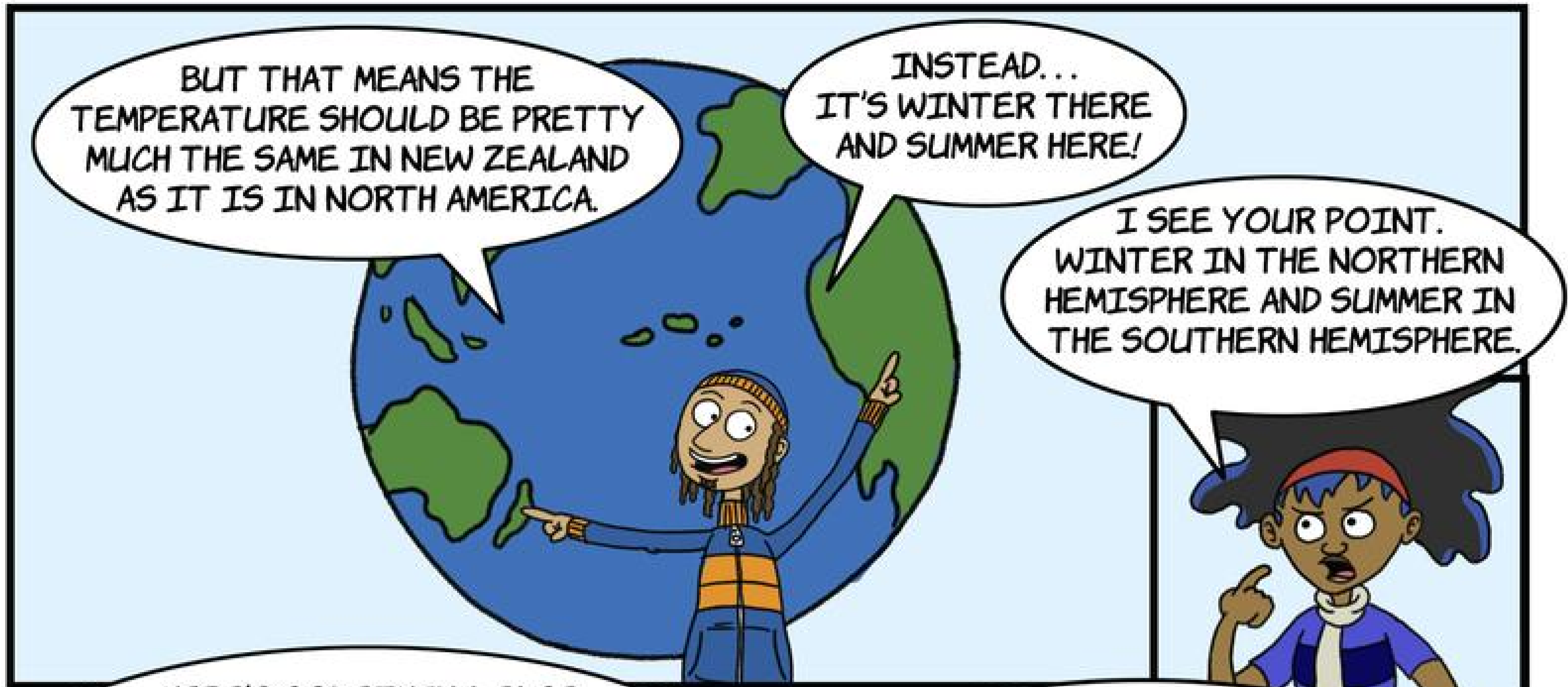
AND COLD HERE AT THE POLES BECAUSE IT'S HITTING AT AN ANGLE?



I THINK WE FIGURED THAT OUT WITH THE WEDDING PLANNERS, TOO.

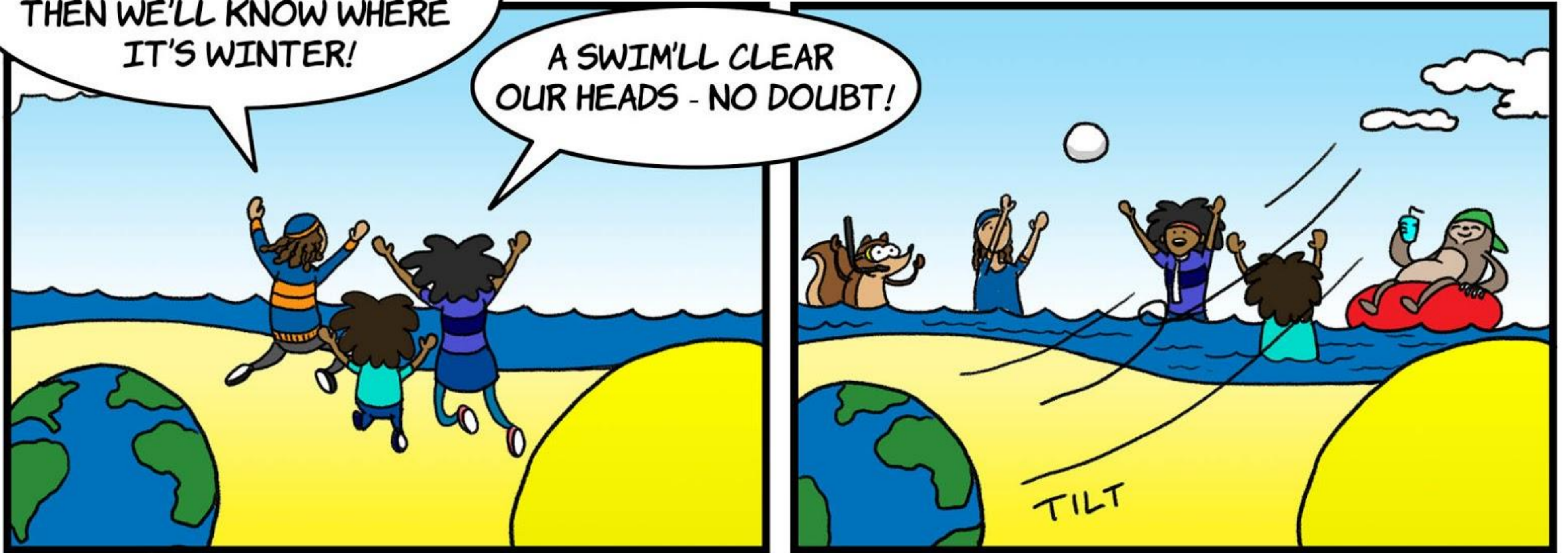


WHEN THE SUN TRAVELS TO THE POLES, IT GETS SPREAD OUT IN THE ATMOSPHERE. IT NEVER HITS THE POLES DIRECTLY!



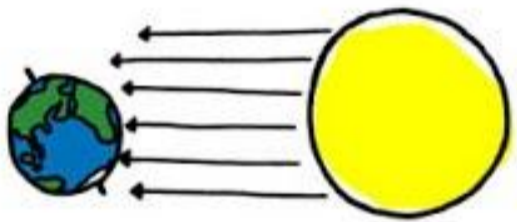
IF WE CAN FIGURE OUT WHY WE HAVE SEASONS, THEN WE'LL KNOW WHERE IT'S WINTER!

A SWIM'LL CLEAR OUR HEADS - NO DOUBT!



NOW WHO CAN TELL ME WHICH SCENE FROM AN UNEXPECTED JOURNEY WAS FILMED UP THERE?

THAT'S IT!!



DUDES! TAKE OFF THOSE HOBBIT CLOTHES AND PACK YOUR BAGS! WE KNOW WHERE IT'S WINTER!



TELL THEM, MOSA! WHY DO WE HAVE SEASONS? AND IF IT'S SUMMER DOWN IN NEW ZEALAND, WHERE CAN WE GO TO FIND WINTER?



WHAT DID MOSA FIGURE OUT?