



# NF HERO COMICS

CHILDREN'S  
TUMOR  
FOUNDATION  
ENDING NF  
THROUGH RESEARCH

# MOXIE & SPARX



# EXPLAIN NF1

**EACH DAY, 120 KIDS  
ARE BORN WITH NF, WHICH  
MEANS THAT A NEW NF  
PATIENT IS BORN SOME-  
WHERE IN THE WORLD  
EVERY 12 MINUTES.**

# MOXIE & SPARX

CHILDREN'S TUMOR FOUNDATION  
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## EXPLAIN NF1

KNOCK  
KNOCK  
KNOCK

HEY MARIA, WANNA COME OUTSIDE AND PLAY KICK BALL?

I DO, BUT I CAN'T RIGHT NOW. MY MOM IS GETTING READY TO TAKE ME TO THE DOCTOR'S OFFICE.

WHY DO YOU HAVE TO GO TO THE DOCTOR SO MUCH? IT'S *NOT FAIR!*

IT'S BECAUSE I HAVE *NEUROFIBROMATOSIS*.

HUH?

YOU SAY IT LIKE, "NUR-RROW-FI-BRO-MA-TOE-SIS." IT'S CALLED *NF* FOR SHORT.

WHAT DOES THAT MEAN?

WELL... *UM...* IT'S HARD TO EXPLAIN.

LOOK, IT'S MOXIE AND SPARX!

DON'T WORRY, MARIA! WE KNOW EVERYTHING THERE IS TO KNOW ABOUT NF!

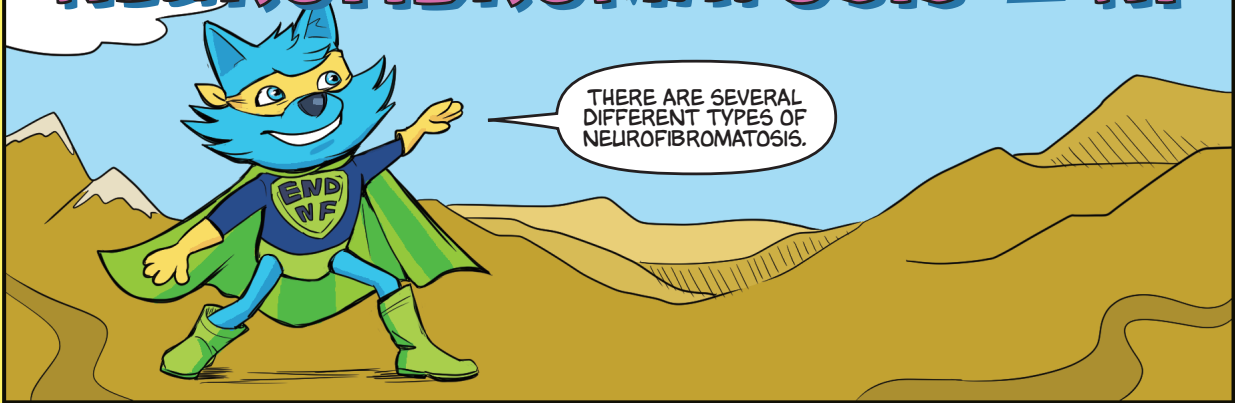
WANT SOME HELP EXPLAINING IT?

OKAY. I'M GONNA HAVE NF MY WHOLE LIFE, SO I MIGHT AS WELL GET GOOD AT TALKING ABOUT IT.

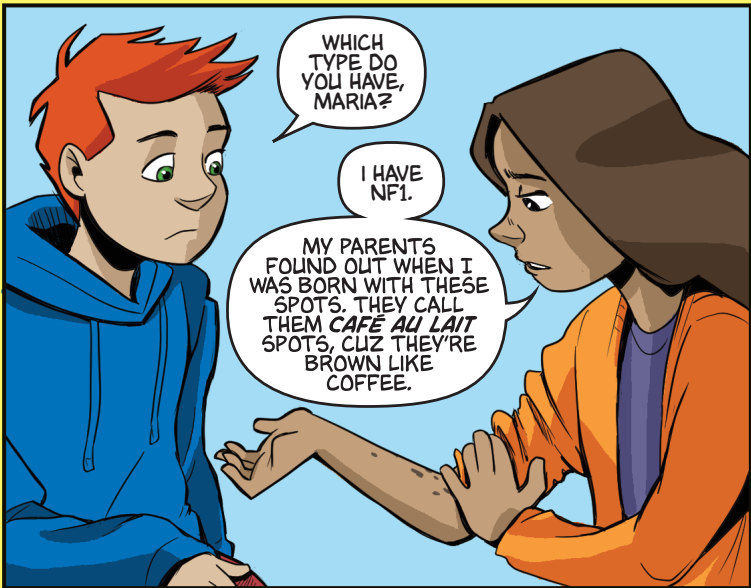
THAT'S THE RIGHT ATTITUDE! COME ON.

WHOOOSH!

# NEUROFIBROMATOSIS OR NF



THERE ARE SEVERAL DIFFERENT TYPES OF NEUROFIBROMATOSIS.



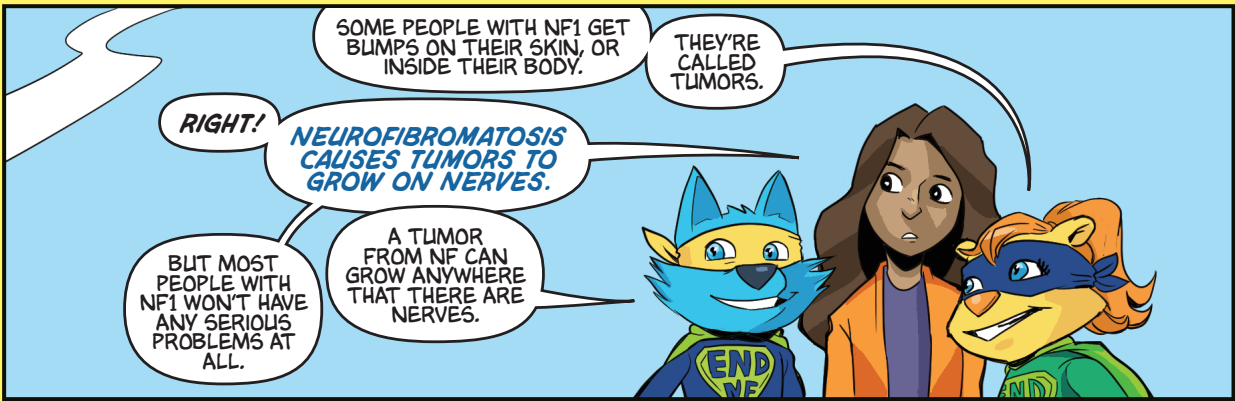
WHICH TYPE DO YOU HAVE, MARIA?

I HAVE NF1.

MY PARENTS FOUND OUT WHEN I WAS BORN WITH THESE SPOTS. THEY CALL THEM CAFE AU LAIT SPOTS, CUZ THEY'RE BROWN LIKE COFFEE.



NF1 IS THE MOST COMMON TYPE OF NEUROFIBROMATOSIS. 1 IN EVERY 3,000 PEOPLE HAS NF1.



SOME PEOPLE WITH NF1 GET BUMPS ON THEIR SKIN, OR INSIDE THEIR BODY.

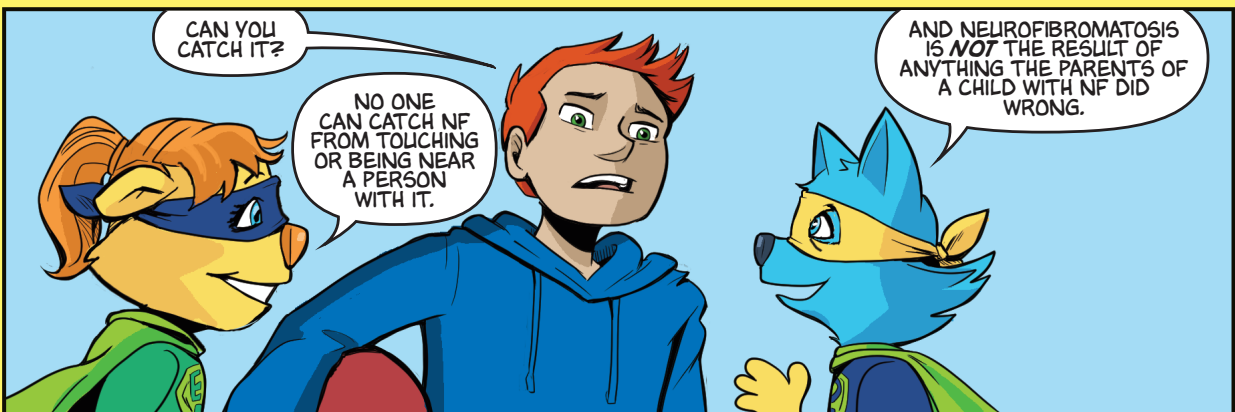
THEY'RE CALLED TUMORS.

RIGHT!

NEUROFIBROMATOSIS CAUSES TUMORS TO GROW ON NERVES.

A TUMOR FROM NF CAN GROW ANYWHERE THAT THERE ARE NERVES.

BUT MOST PEOPLE WITH NF1 WON'T HAVE ANY SERIOUS PROBLEMS AT ALL.



CAN YOU CATCH IT?

NO ONE CAN CATCH NF FROM TOUCHING OR BEING NEAR A PERSON WITH IT.

AND NEUROFIBROMATOSIS IS NOT THE RESULT OF ANYTHING THE PARENTS OF A CHILD WITH NF DID WRONG.

LOTS OF THE KIDS WHO HAVE NF HAVE A HARD TIME IN SCHOOL. WHICH IS WHY IT'S REALLY IMPORTANT FOR TEACHERS TO KNOW ABOUT IT TOO.

SOMETIMES PEOPLE WITH NF HAVE FRECKLING.

OR PROBLEMS WITH THEIR EYES.

OR TROUBLE WITH THEIR BONES.

SOME KIDS WITH NF HAVE A HARD TIME LEARNING NEW THINGS.

IT'S OKAY TO ASK FOR HELP!

NF CAN AFFECT ANY PART OF THE BODY.

NF AFFECTS EACH PERSON WHO HAS IT DIFFERENTLY.

CAN BOYS GET IT TOO?

IT DOESN'T MATTER IF YOU'RE A BOY OR A GIRL, OR WHAT COLOR YOUR SKIN IS, OR WHERE YOU'RE FROM. **ANYONE** CAN BE BORN WITH NF.

HALF OF THE PEOPLE WHO HAVE NF INHERITED IT FROM A PARENT.

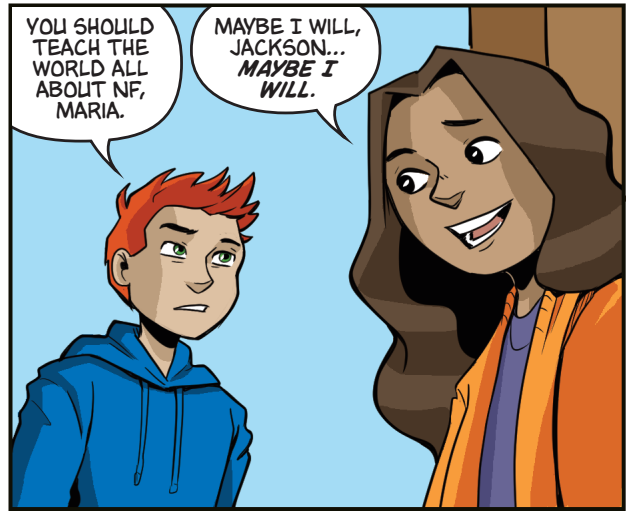
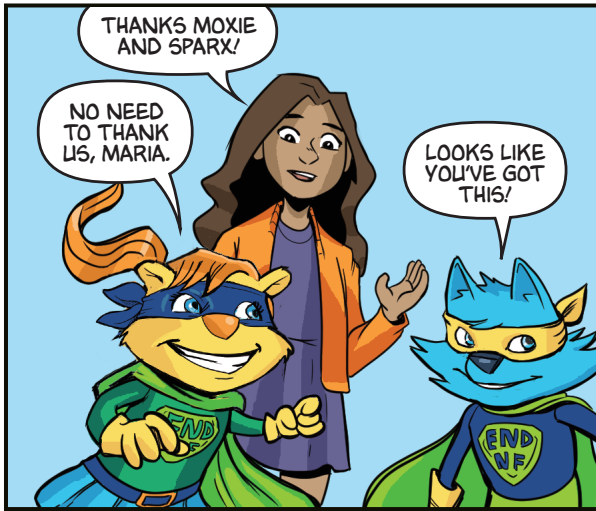
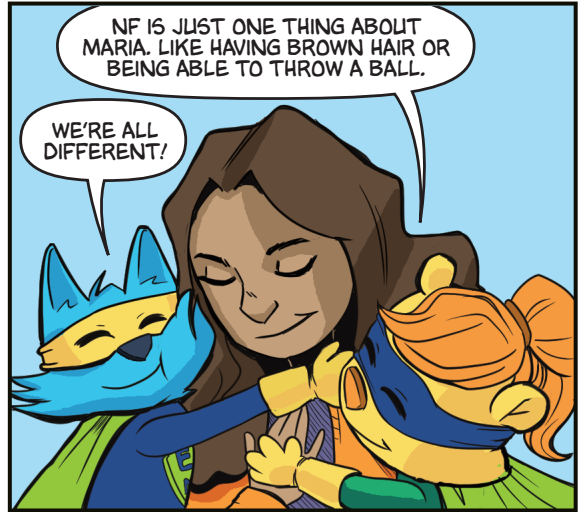
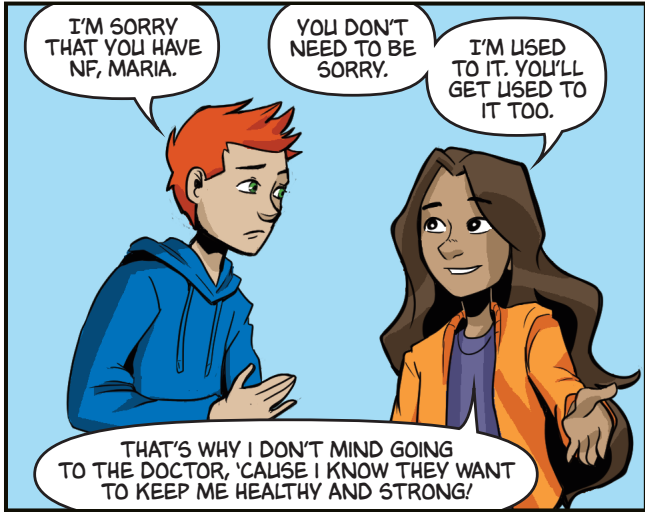
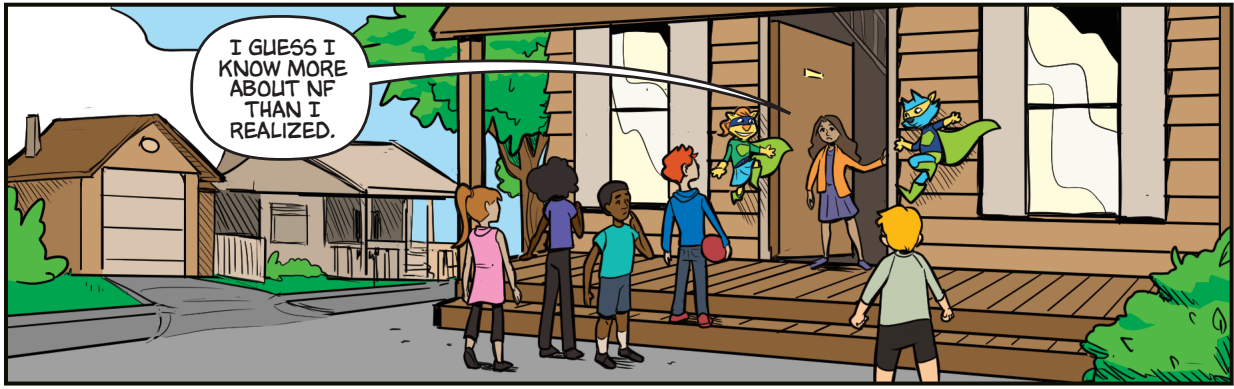
LIKE THE WAY I INHERITED GREEN EYES FROM MY MOM!



THE OTHER HALF OF THE TIME, A CHILD WITH NF IS THE ONLY PERSON IN THE FAMILY WHO HAS IT.

HOW DOES THAT HAPPEN?

WHAT CAUSES NF IS A CHANGE IN A GENE. A GENE IS A SEQUENCE OF DNA, WHICH IS THE GENETIC INFORMATION THAT IS PASSED DOWN FROM PARENTS TO CHILDREN. SO IF A PARENT HAS IT, THEY CAN PASS IT ON TO THEIR CHILD. BUT SOMETIMES A GENE JUST CHANGES ON IT'S OWN.

MARIA... YOU JUST EXPLAINED NF!





# MOXIE & SPARX

## EXPLAIN NF1

**NEUROFIBROMATOSIS, OR NF,  
IS A GENETIC DISORDER THAT AFFECTS  
1 IN EVERY 3,000 PEOPLE.**

IT CAUSES TUMORS TO GROW ON NERVES THROUGHOUT  
THE BODY, AND CAN LEAD TO DEAFNESS, BLINDNESS,  
DISFIGUREMENT, BONE ABNORMALITIES, LEARNING  
DISABILITIES, DISABLING PAIN, AND CANCER.

**THERE ARE THREE TYPES OF NEUROFIBROMATOSIS:  
NF1, NF2, AND SCHWANNOMATOSIS.**

### **THE CHILDREN'S TUMOR FOUNDATION (CTF)**

IS A NONPROFIT ORGANIZATION DEDICATED TO FINDING  
TREATMENTS FOR PEOPLE LIVING WITH NF. TO DO THIS,  
CTF DRIVES RESEARCH, EXPANDS KNOWLEDGE, AND  
ADVANCES CARE FOR THE NF COMMUNITY.

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**LET'S  
END  
NF!**