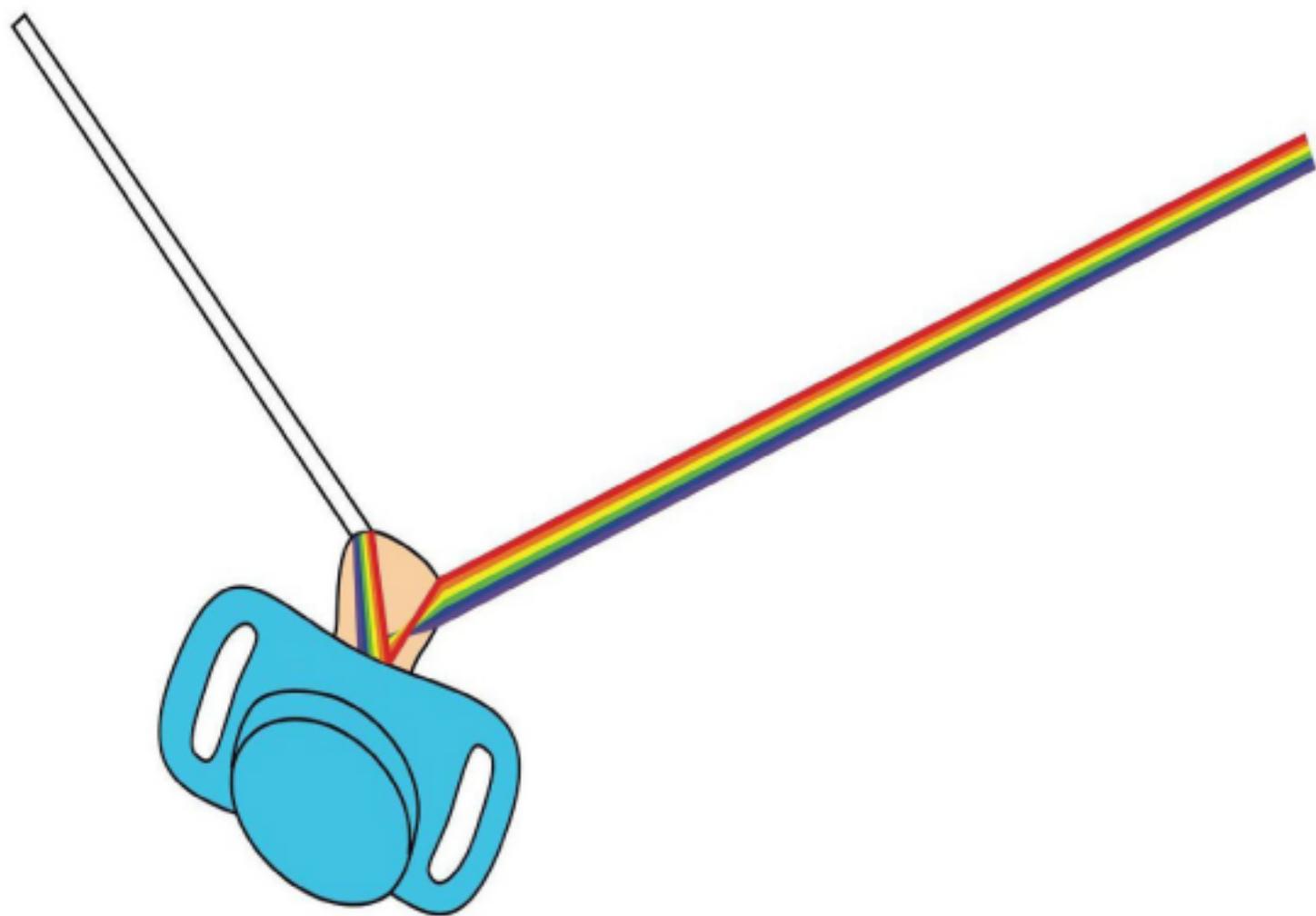


Optical Physics for Babies



by Chris Ferrie

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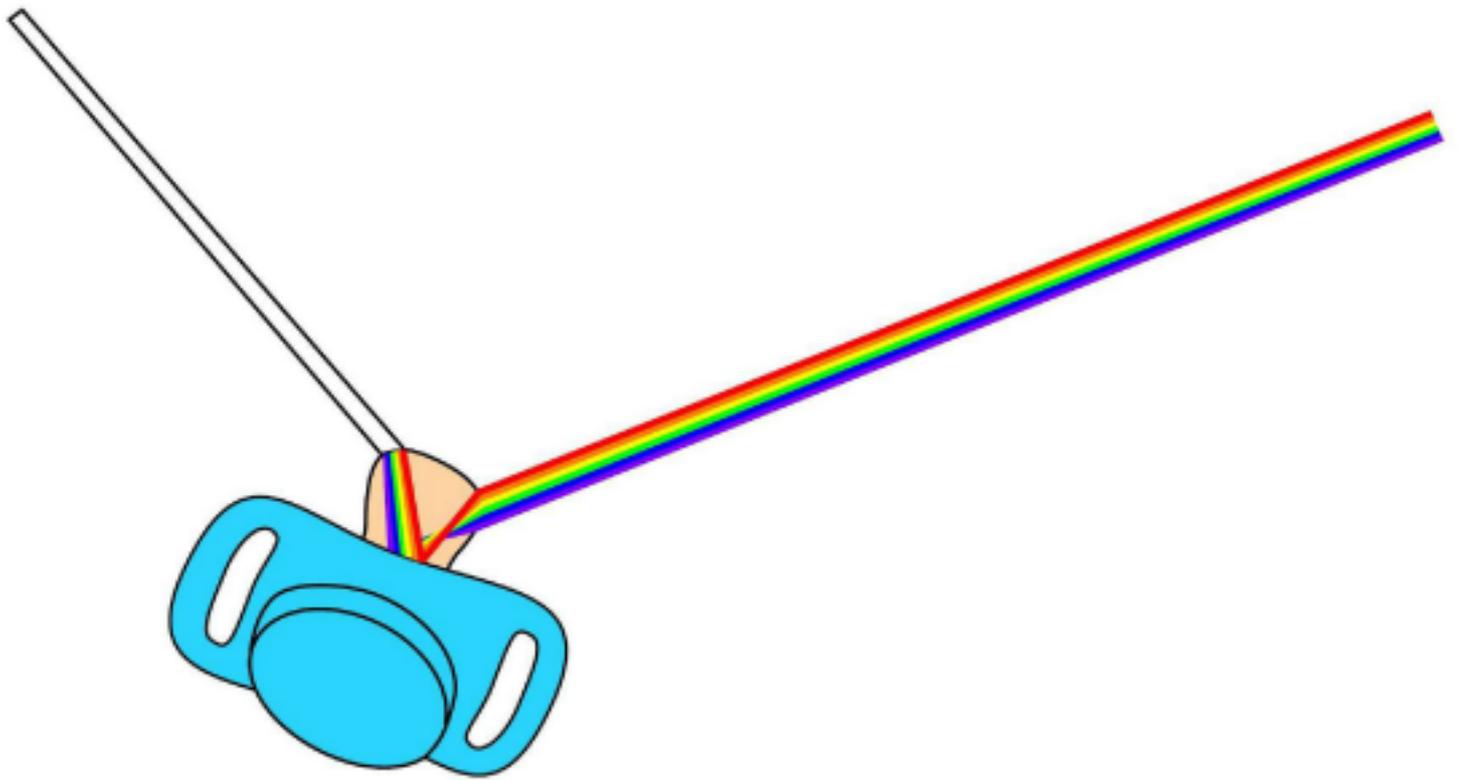
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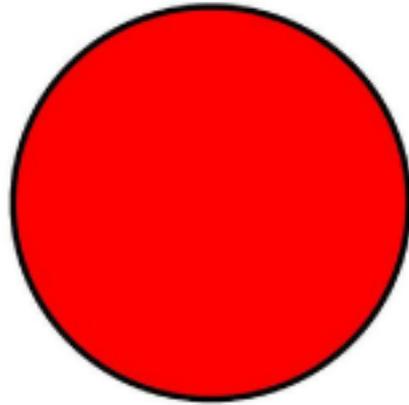
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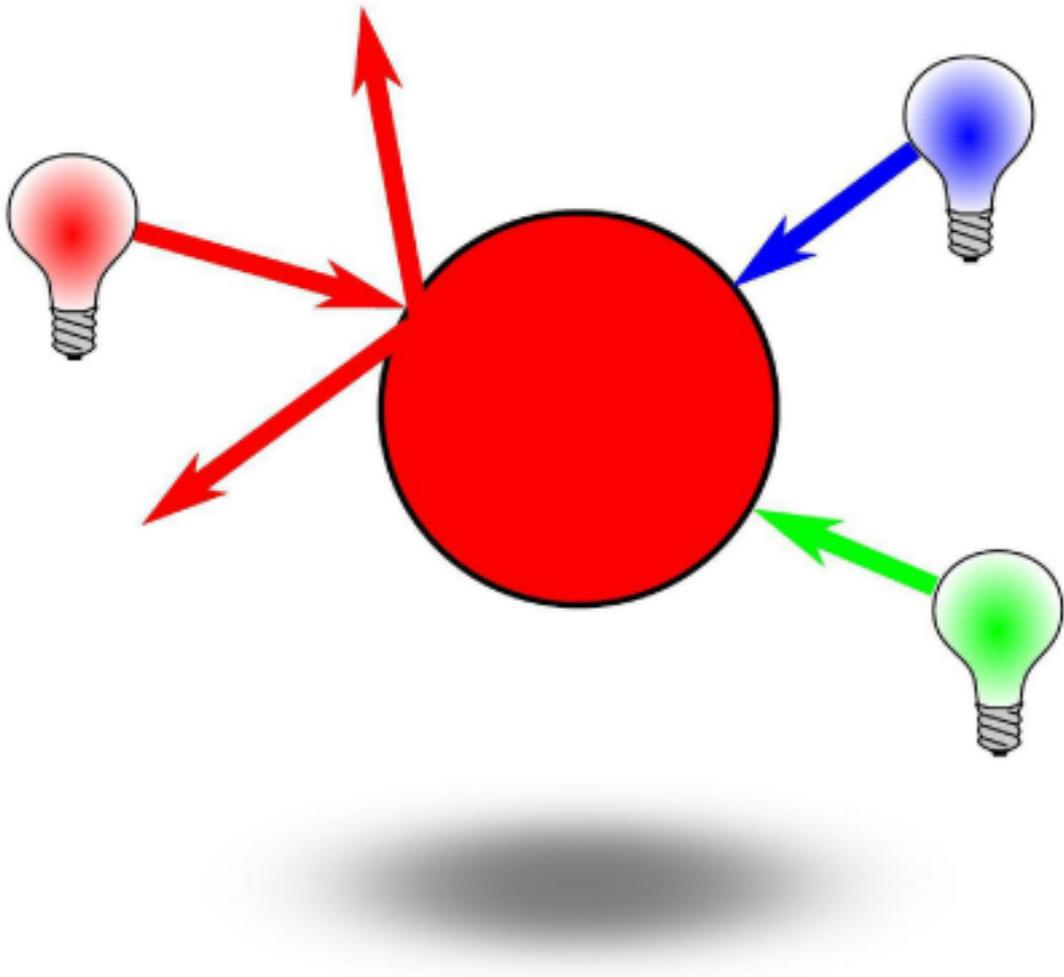
Optical Physics for Babies 🎤



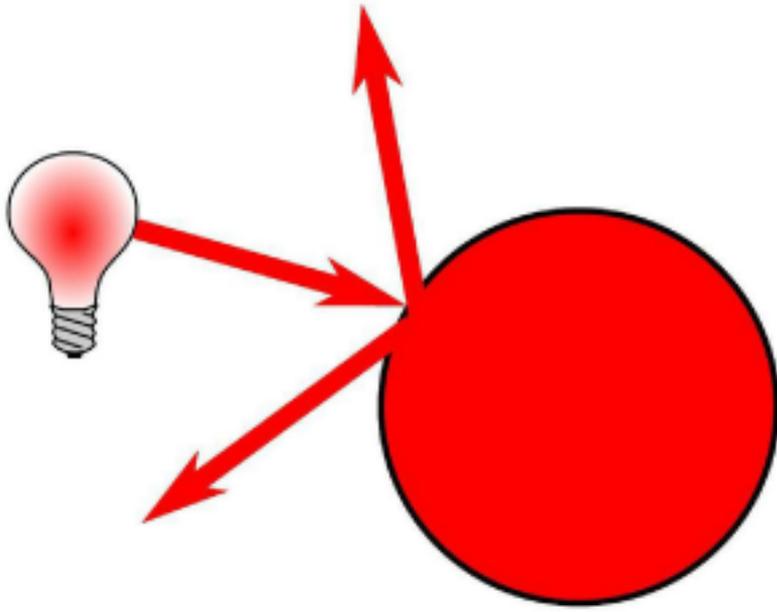
by Chris Ferrie



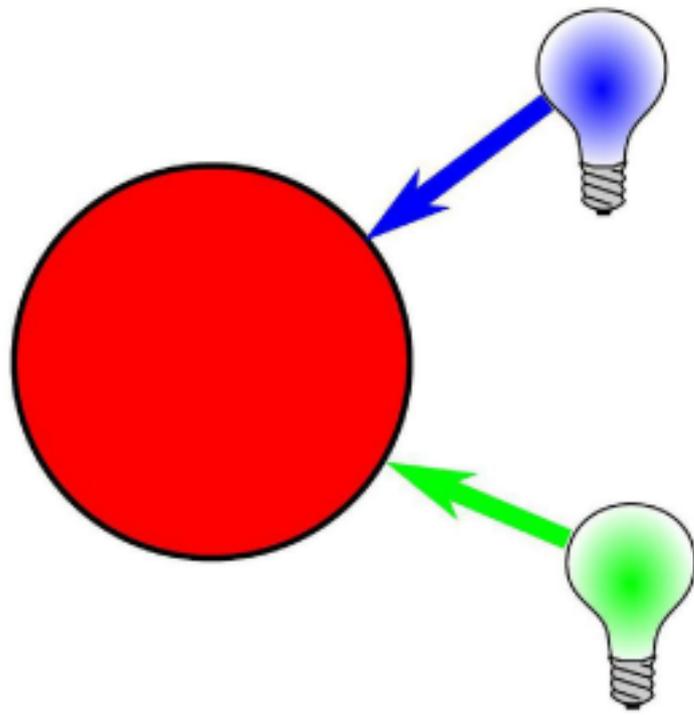
This is a ball. 🗣️



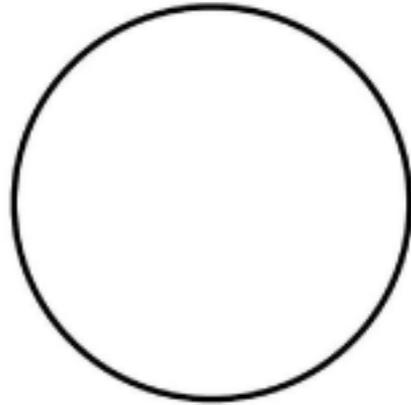
This ball is red. 🎧



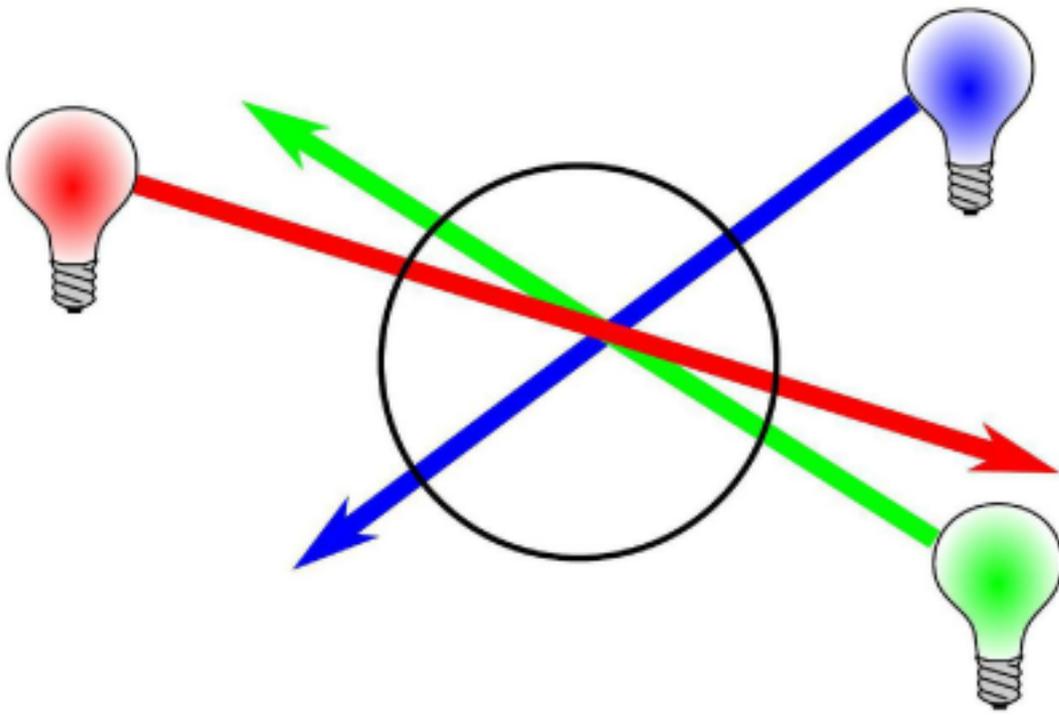
 It reflects **red** light.



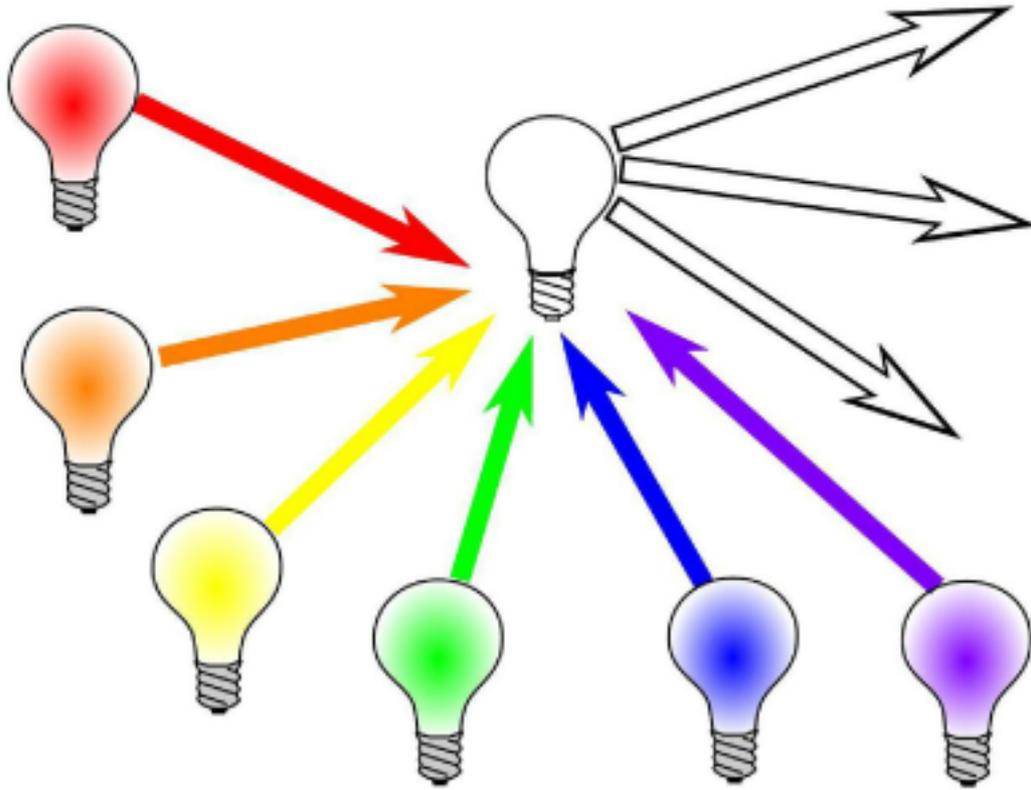
 It absorbs **blue**
and **green** light.



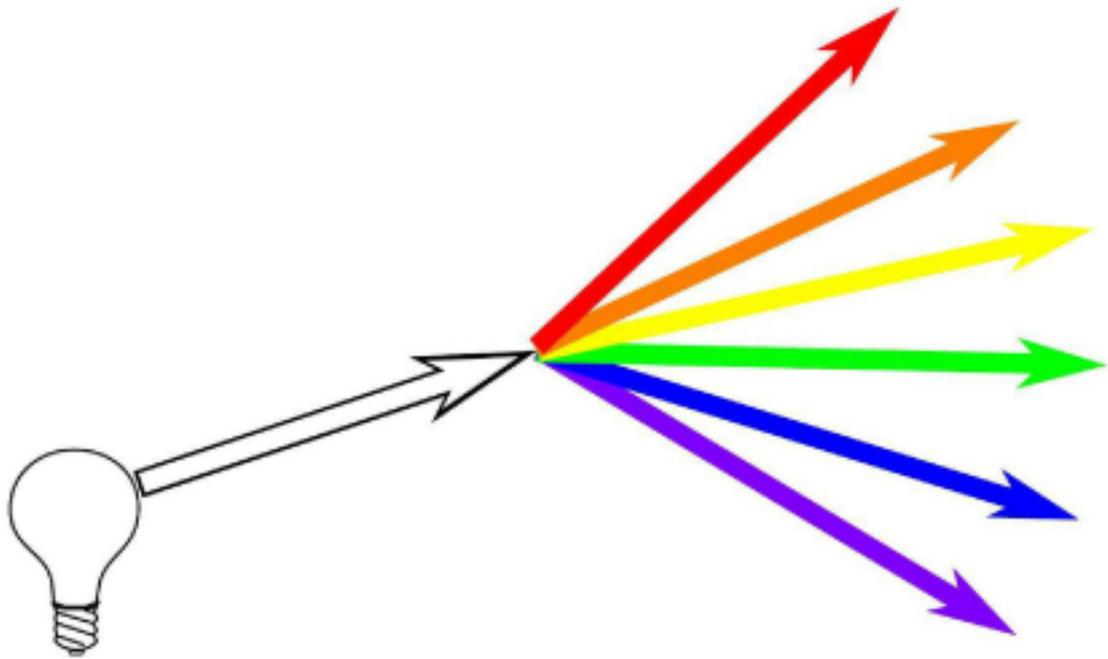
This is a clear ball.



**All colors pass
through it. 🎧**



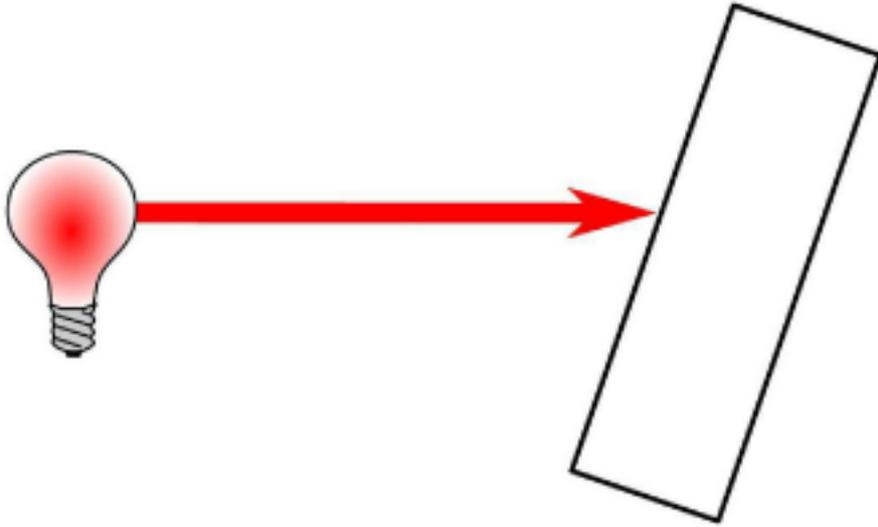
**All the colors
combine to make
white light.** 🎧



**And white light
contains all the
colors.** 🎧

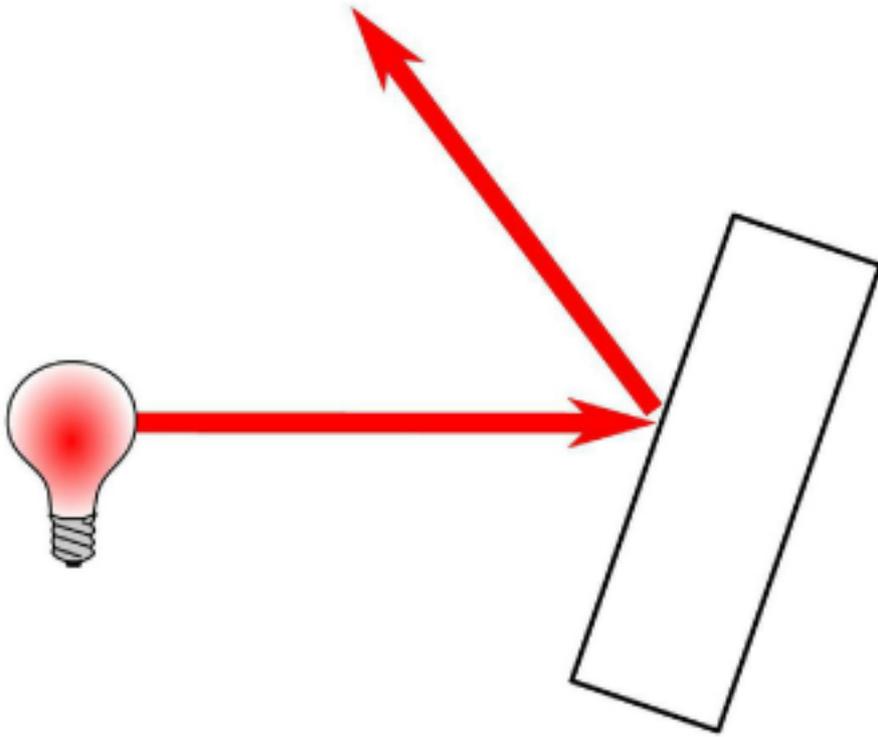


**Light travels in
a straight line...**

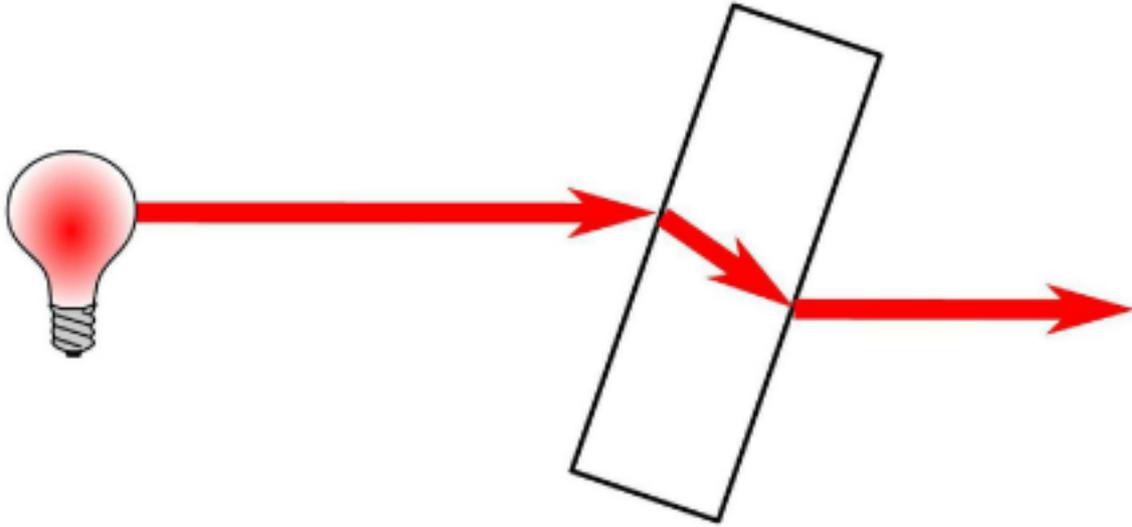


**until it hits
something.**

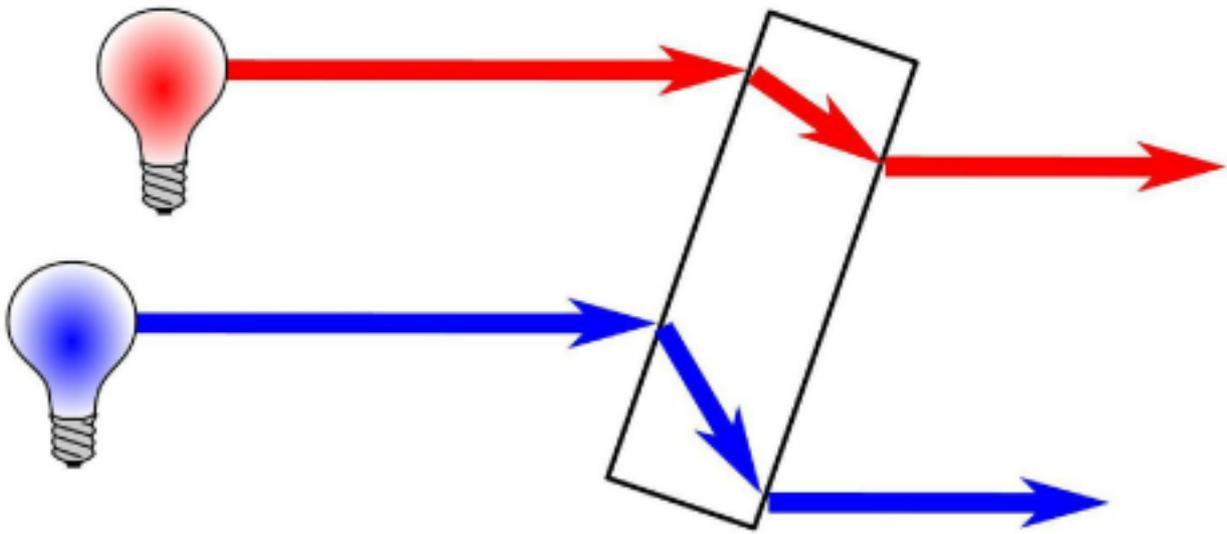




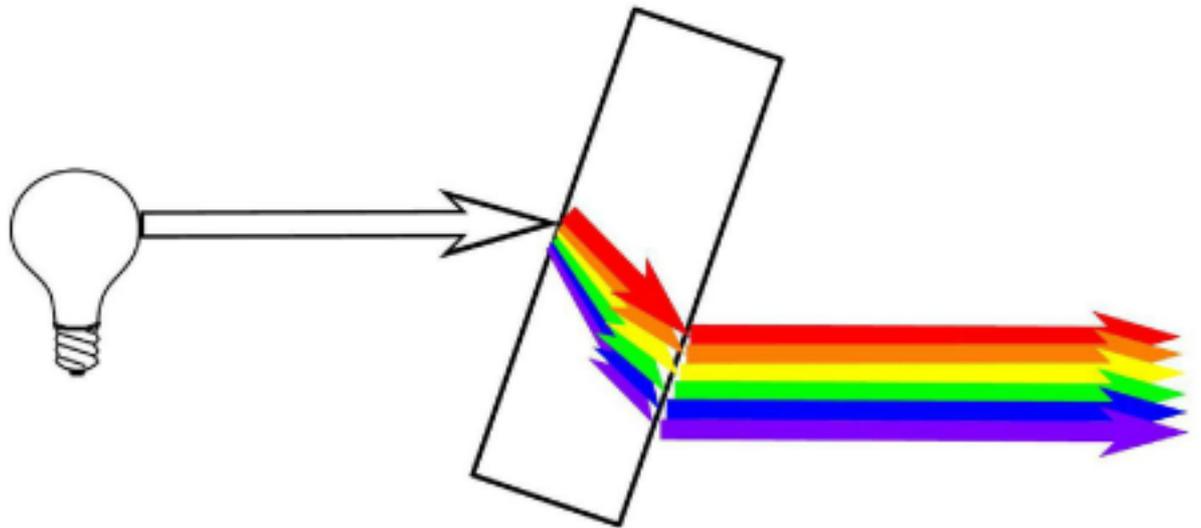
It can be reflected,



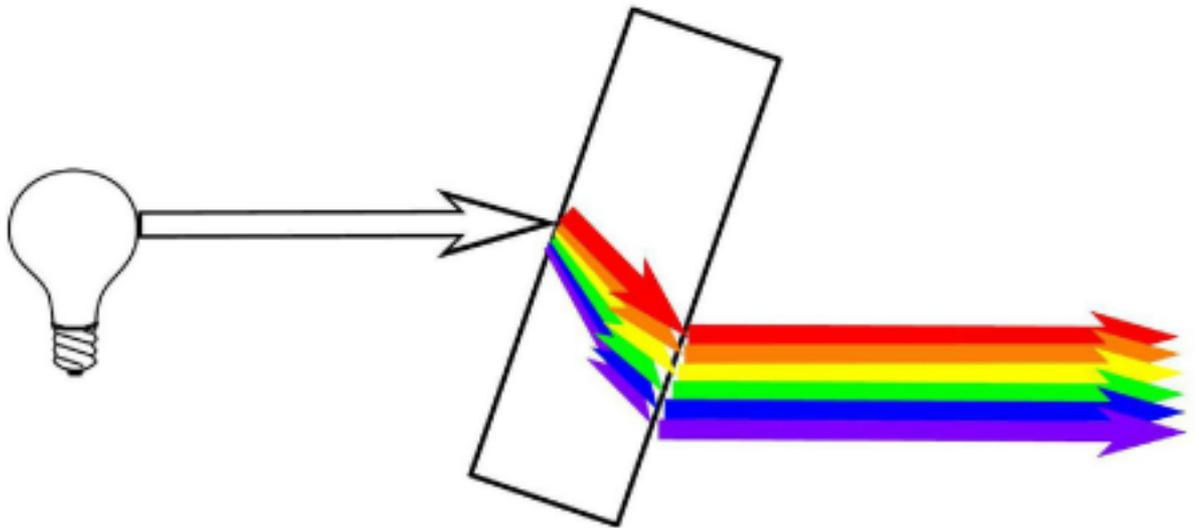
or refracted. 🎧



Red is refracted
less than **blue**. 🎧



**This is how white
light turns into
the colors.**



**We call this
dispersion.**



**Least refracted to
most refracted:**

Red

Orange

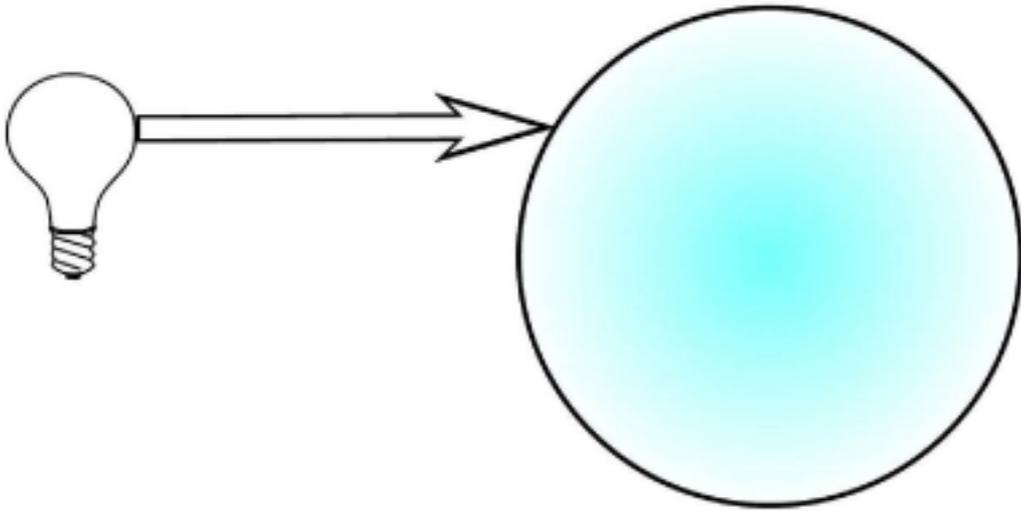
Yellow

Green

Blue

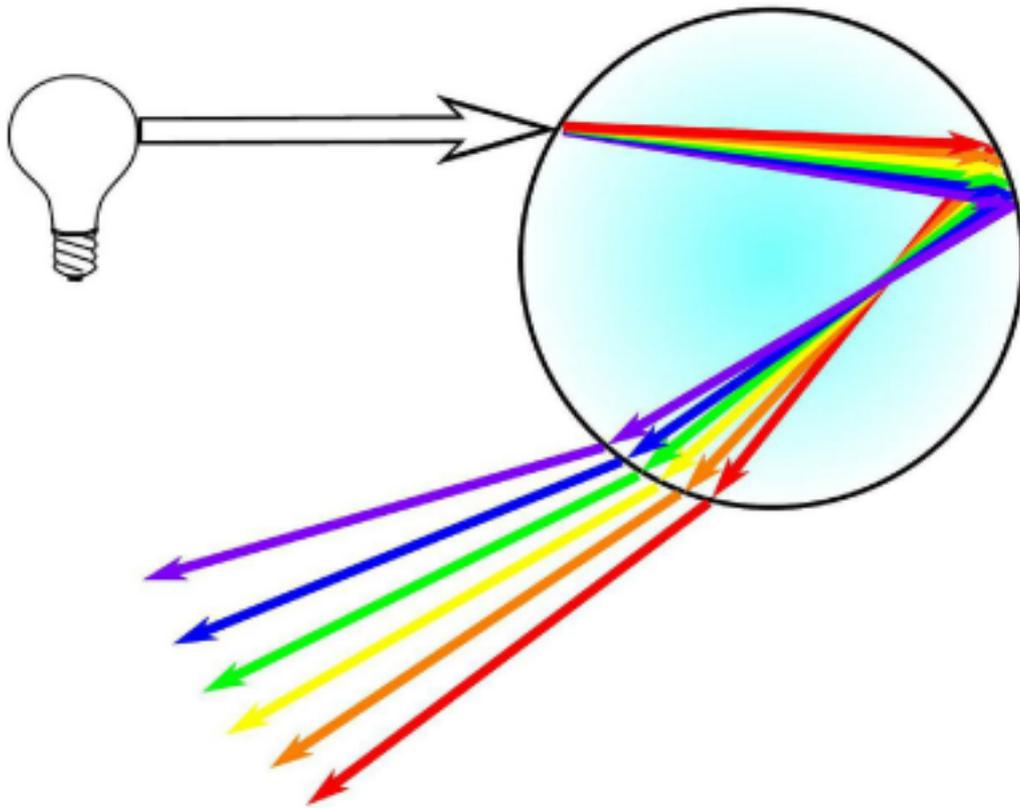
Violet





**If white light
hits a rain drop...**

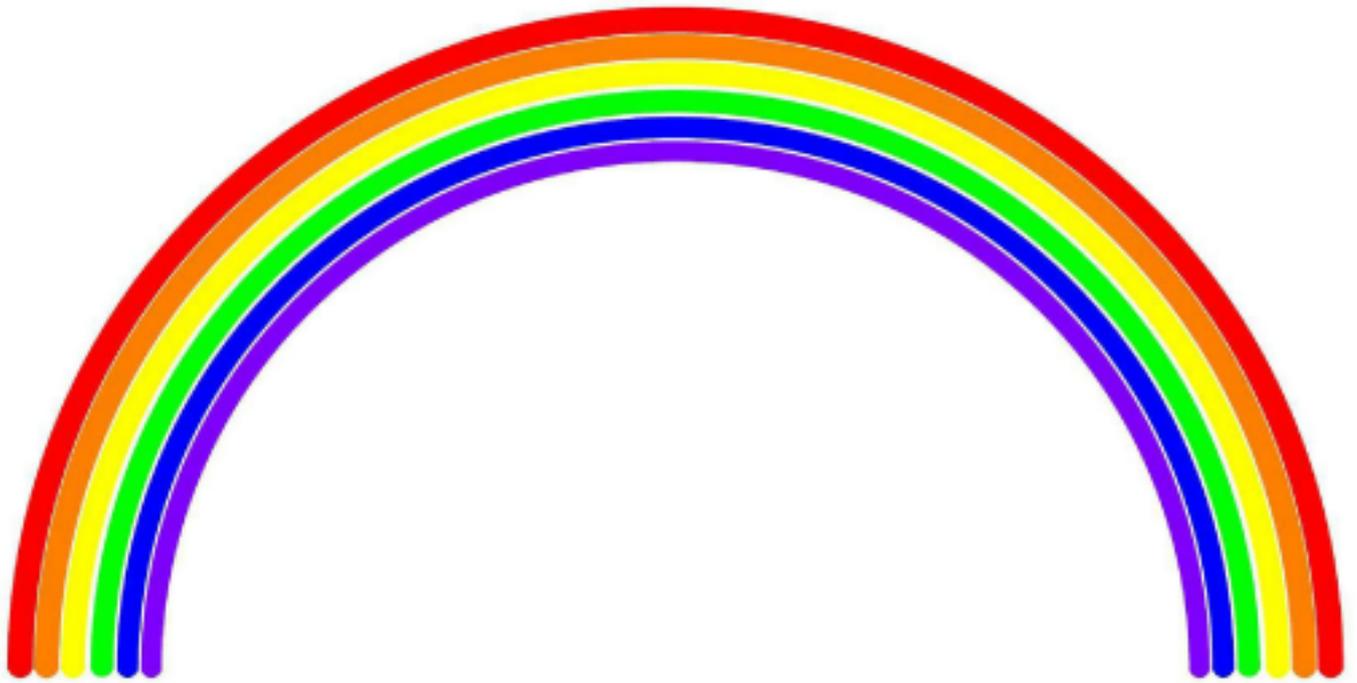




out comes a

rainbow!

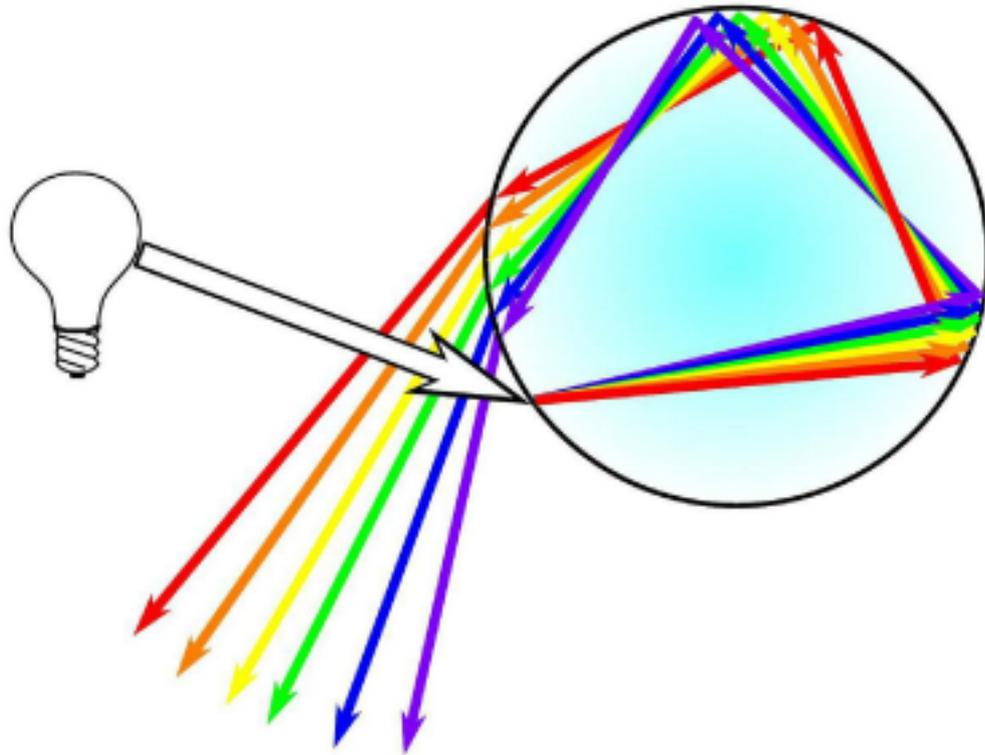




**On a sunny and
rainy day, it looks
like this. 🎧**

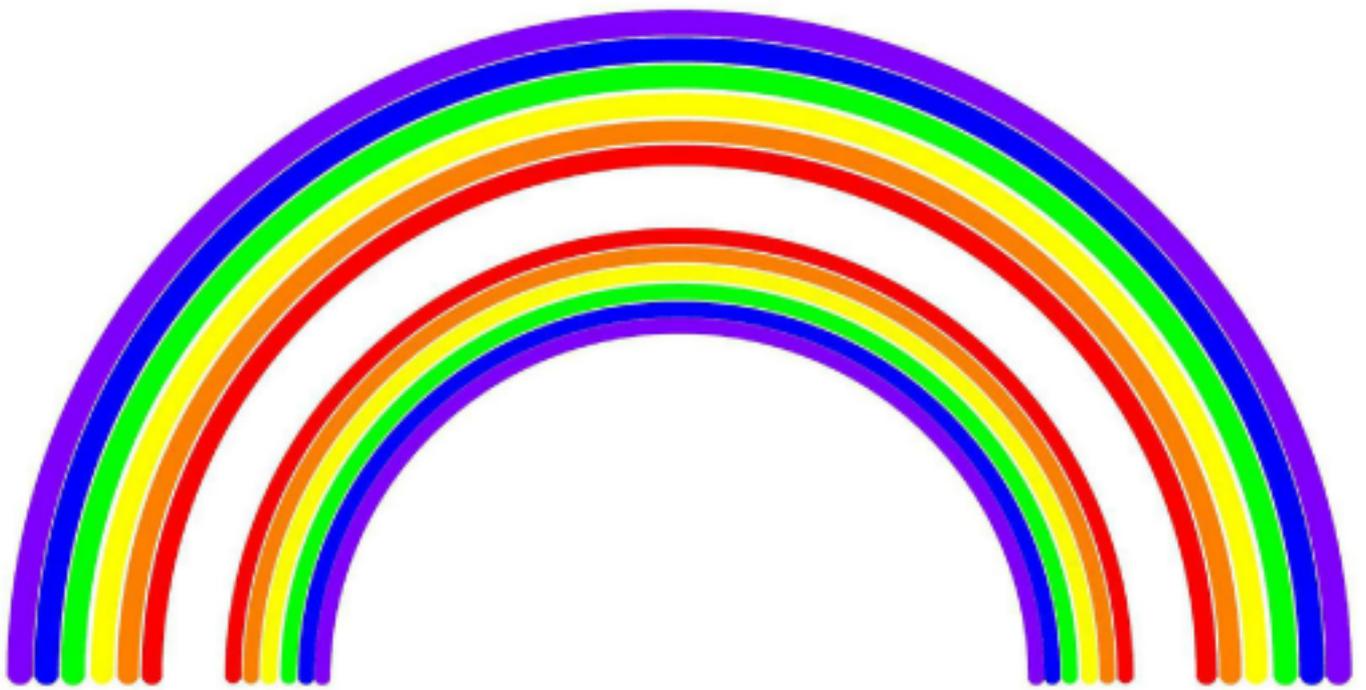


**Remember the
refraction order!**



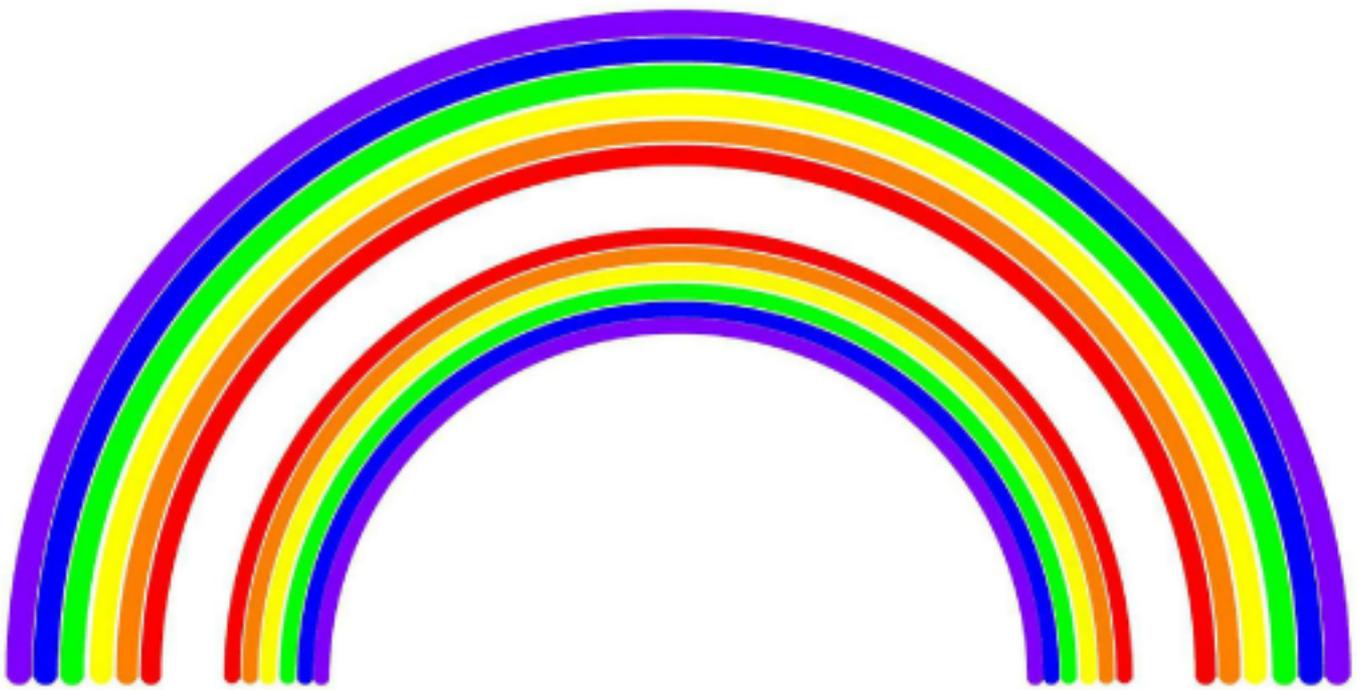
The light can be reflected two times inside the rain drop.





**This makes a
second rainbow!**





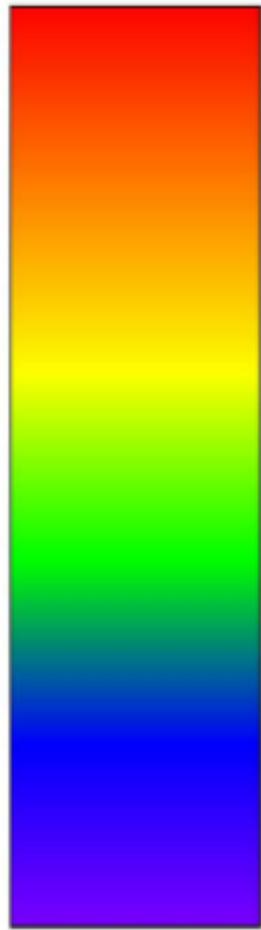
**But the order of
the color is
reversed.**





**There are also more
colors than these.**

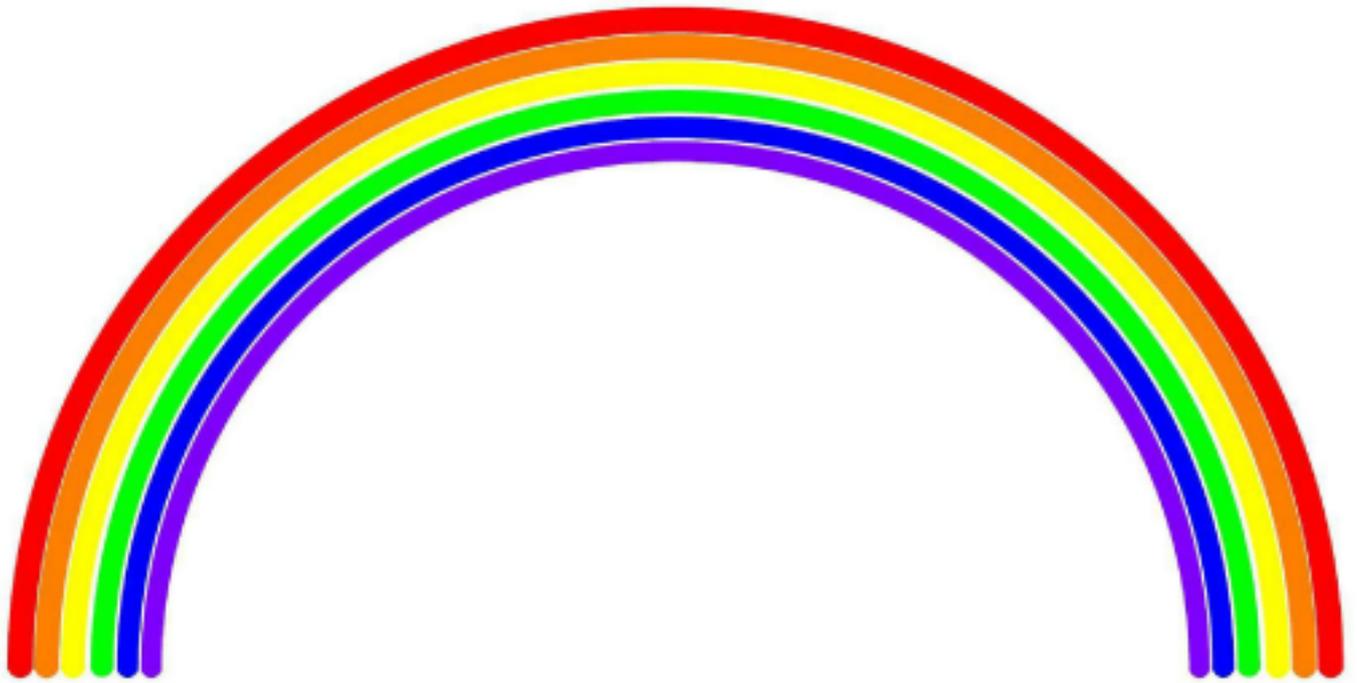




Red
Orange
Yellow
Green
Blue
Violet

**There is a whole
spectrum of colors.**





**We imagine
rainbows like this.**





**But they look more
like this.**





**So on the next
sunny and rainy day,
see if you can spot
a rainbow.**

