

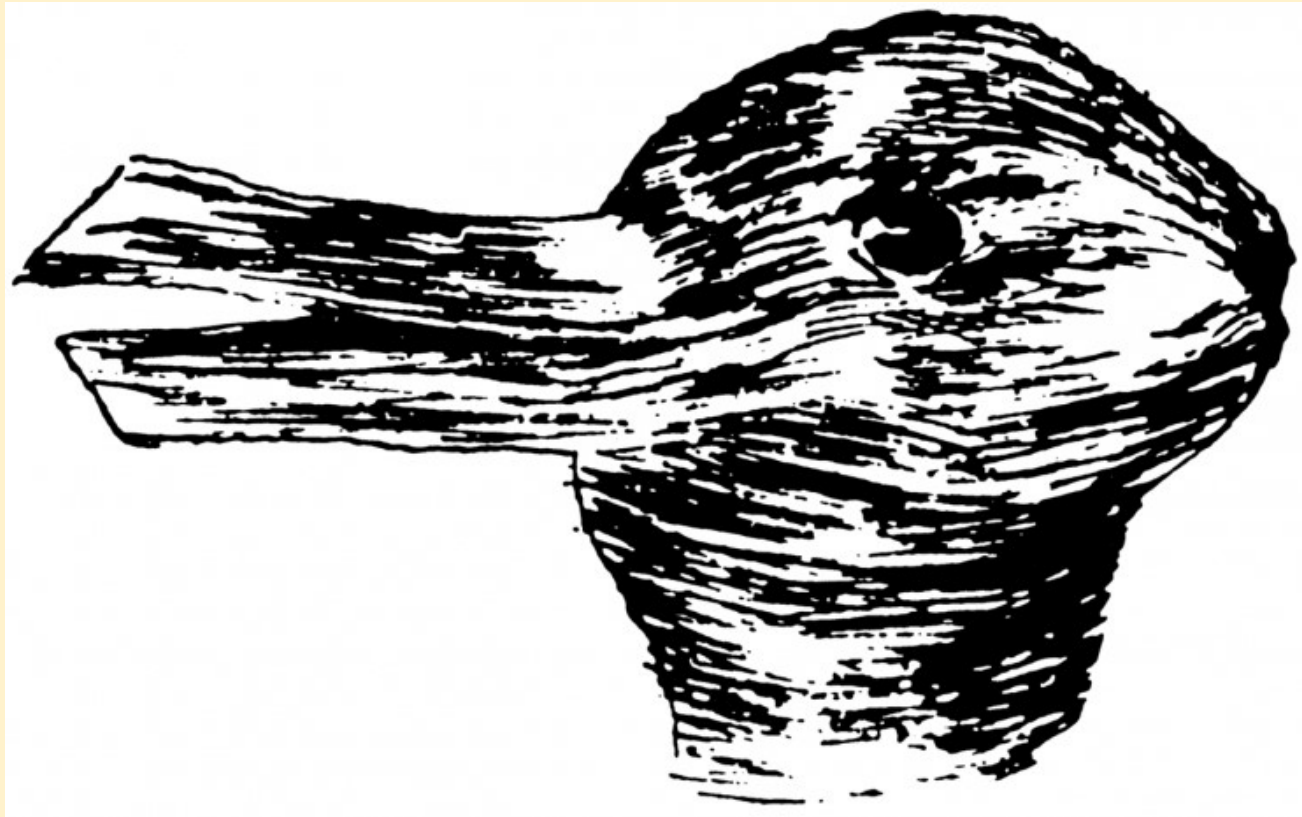
# OPTICAL ILLUSIONS ART

LI – to understand how our brains work when faced with optical illusions

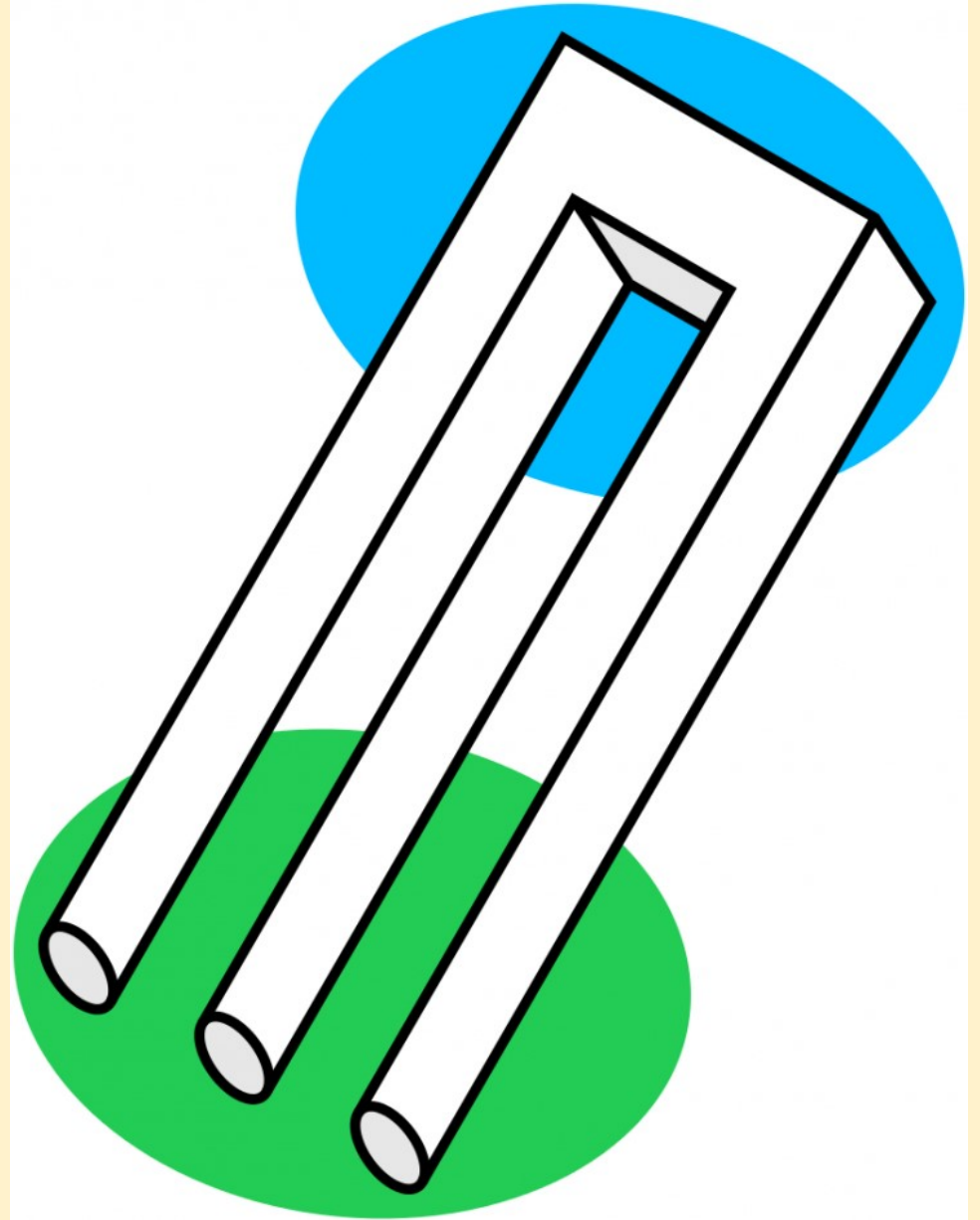
# What are optical illusions?

- Sometimes your eyes see things that your brain doesn't understand. These are optical illusions – pictures that play tricks on your eyes and confuse your brain.
- The science bit!
- Many scientists believe that some optical illusions are caused when information taken in by our eyes conflicts with how our brain interprets that information. The brain can't make sense of what the eyes are seeing so it falls back on its previous experience and turns the unfamiliar into the familiar

What do you see?



What do you see?

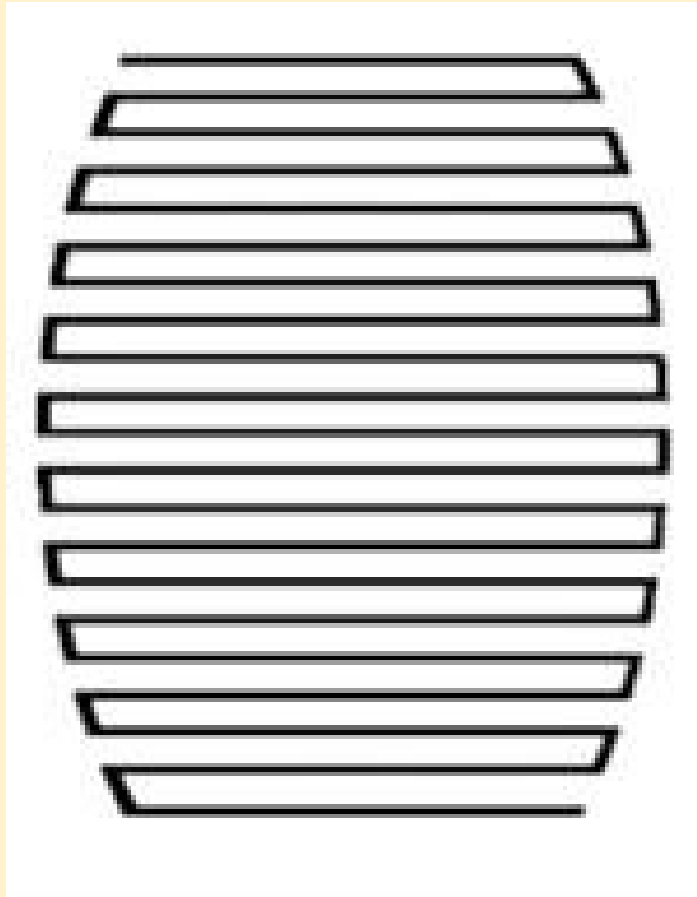




What is going on  
with the train  
tracks in this  
picture?

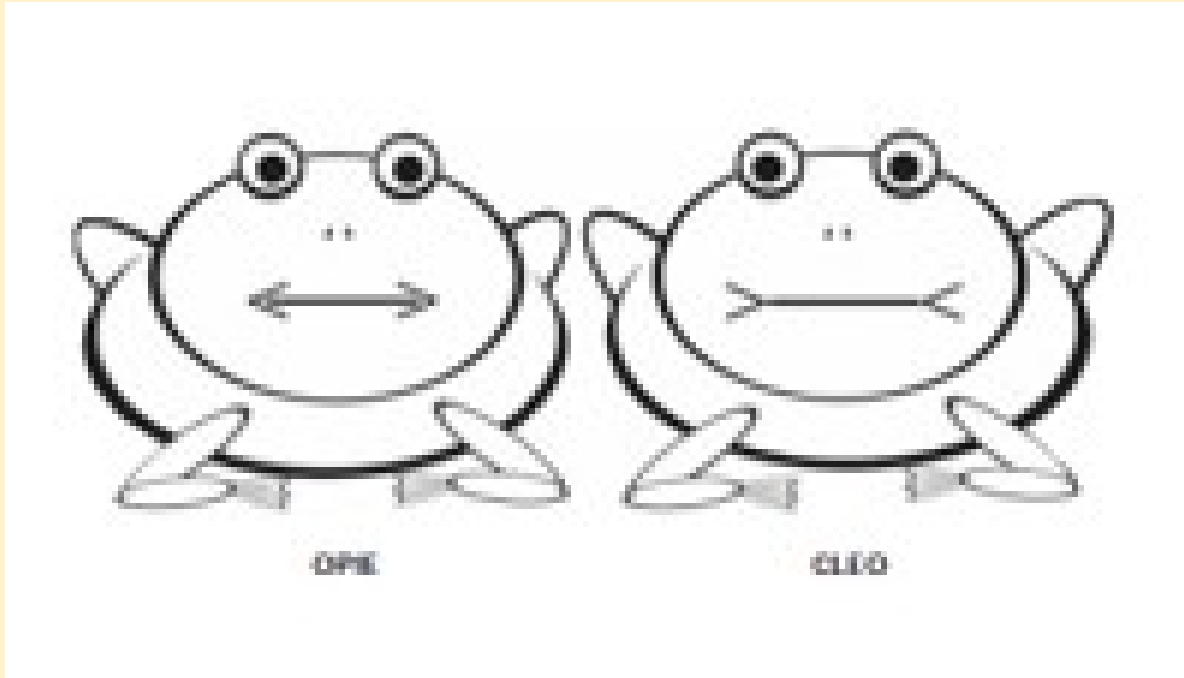
Do they meet in  
the distance?

The train tracks appear to come together but in reality they don't meet at all. Although our eyes are telling us that the tracks are converging our brain knows that they are parallel and parallel lines never meet.



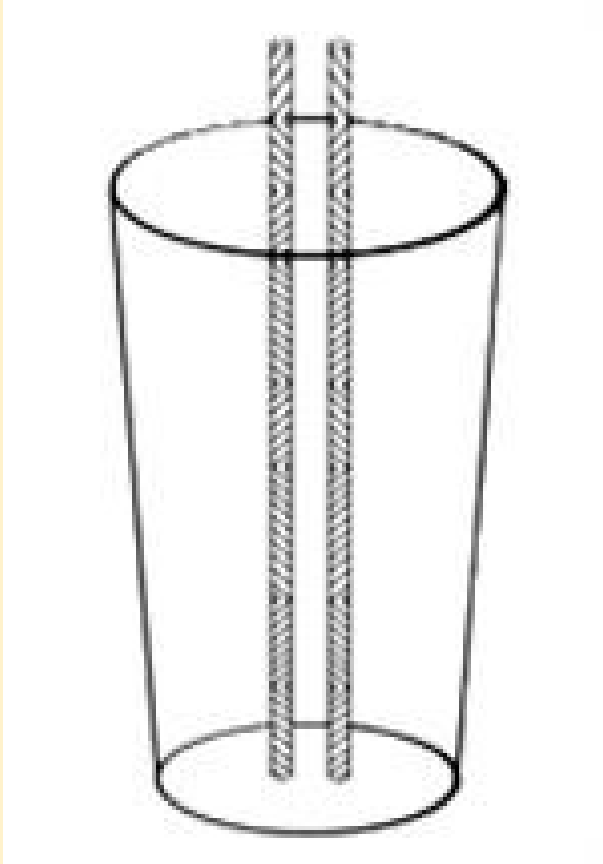
Do you see  
separate bars or  
one continuous  
line?

Our brains sometimes see separate bars and sometimes they see one continuous one.  
The brain fills in information based on what it expects to see.



Which frog has  
the longest  
mouth?

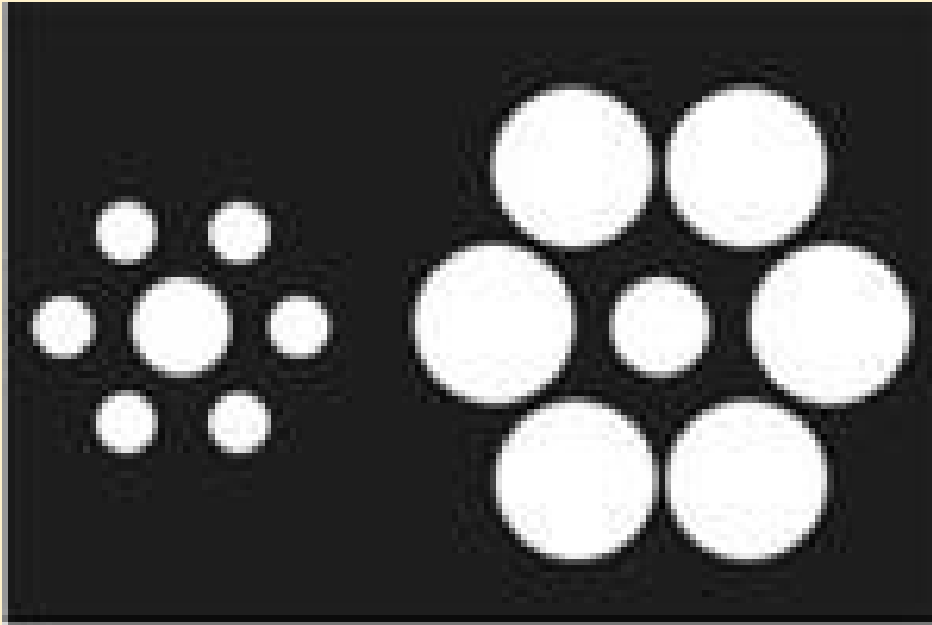
Both mouths are the same size. The direction of the arrows at the ends only make it seem like one mouth is larger than the other.



Are these straws  
straight?

Patterns change our perception (the way we see things) - in this case they make the straws look crooked!





Look at the  
middle circles of  
these flowers –  
which is larger?

Both circles are the same size. The surrounding circles make the inner circles appear to be different. The brain is comparing the circles for us based on what it expects to find, not what is really there!

# YOUR TASK

- <https://www.youtube.com/watch?v=-7PRDVNU4AA>

