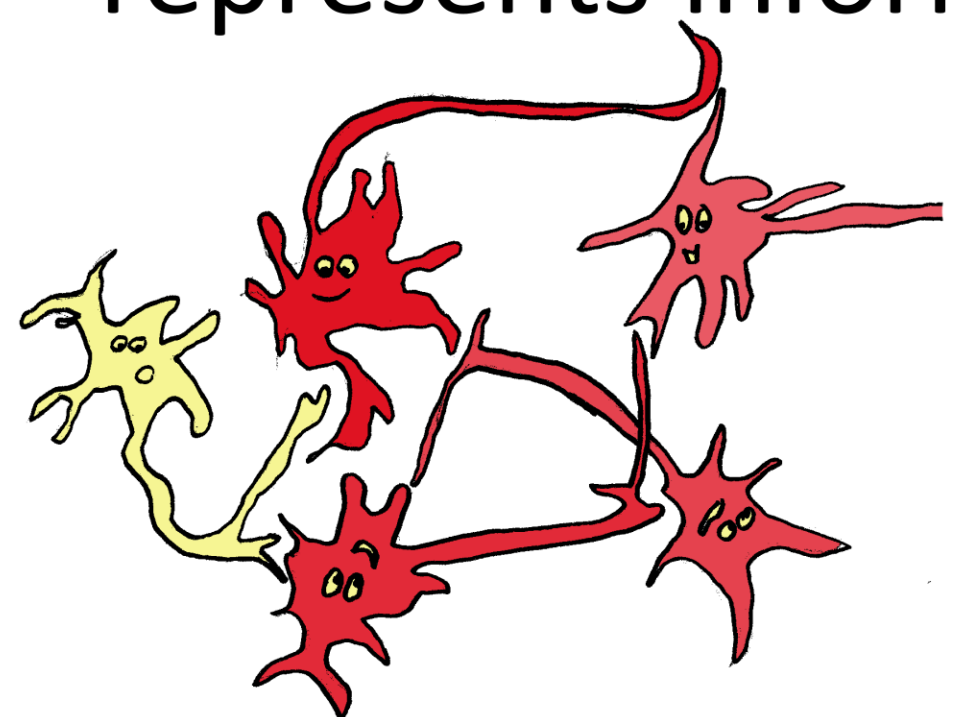


# Brain plasticity

In the brain, neurons are connected with each other and they communicate as a network.

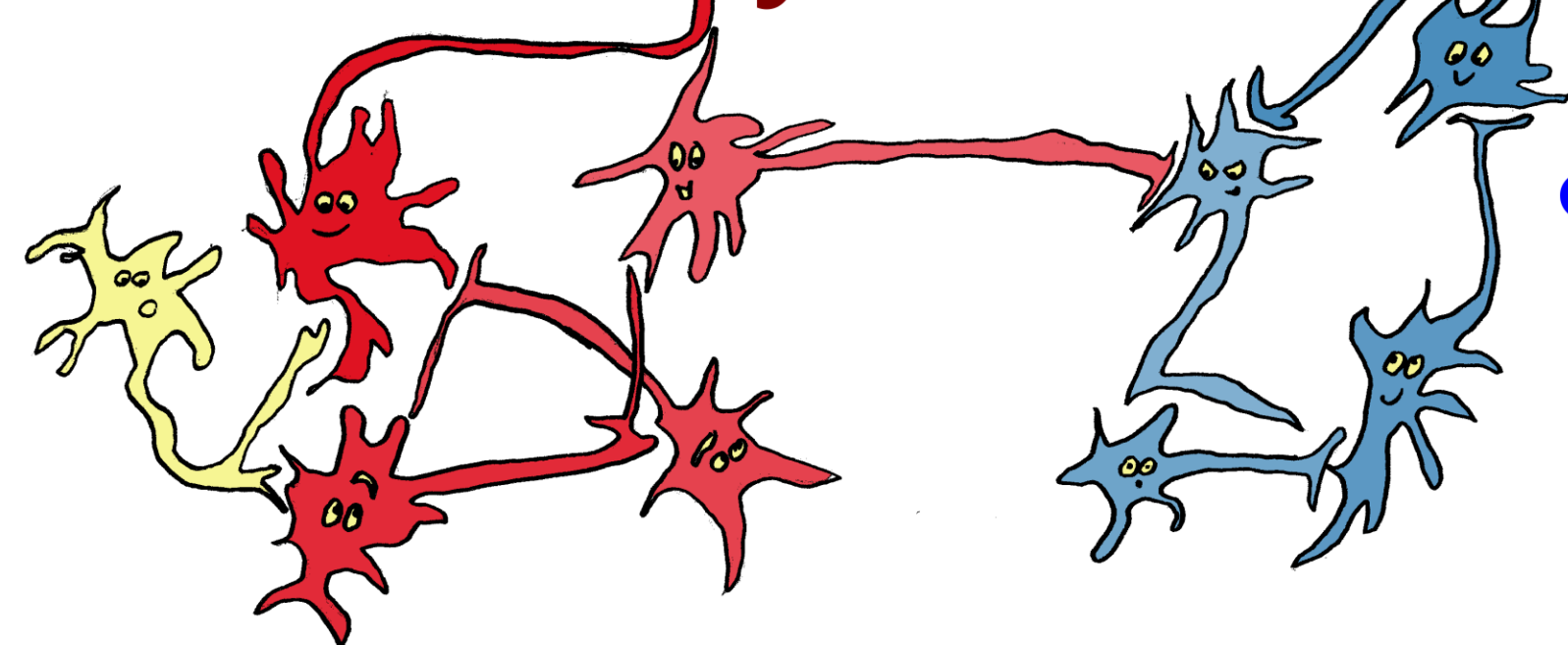
An active network represents information



Charlie and the chocolate factory

Networks activate each other. If I think "Charlie and the chocolate factory" first I will then also think of "chocolate factory"

Charlie and the chocolate factory

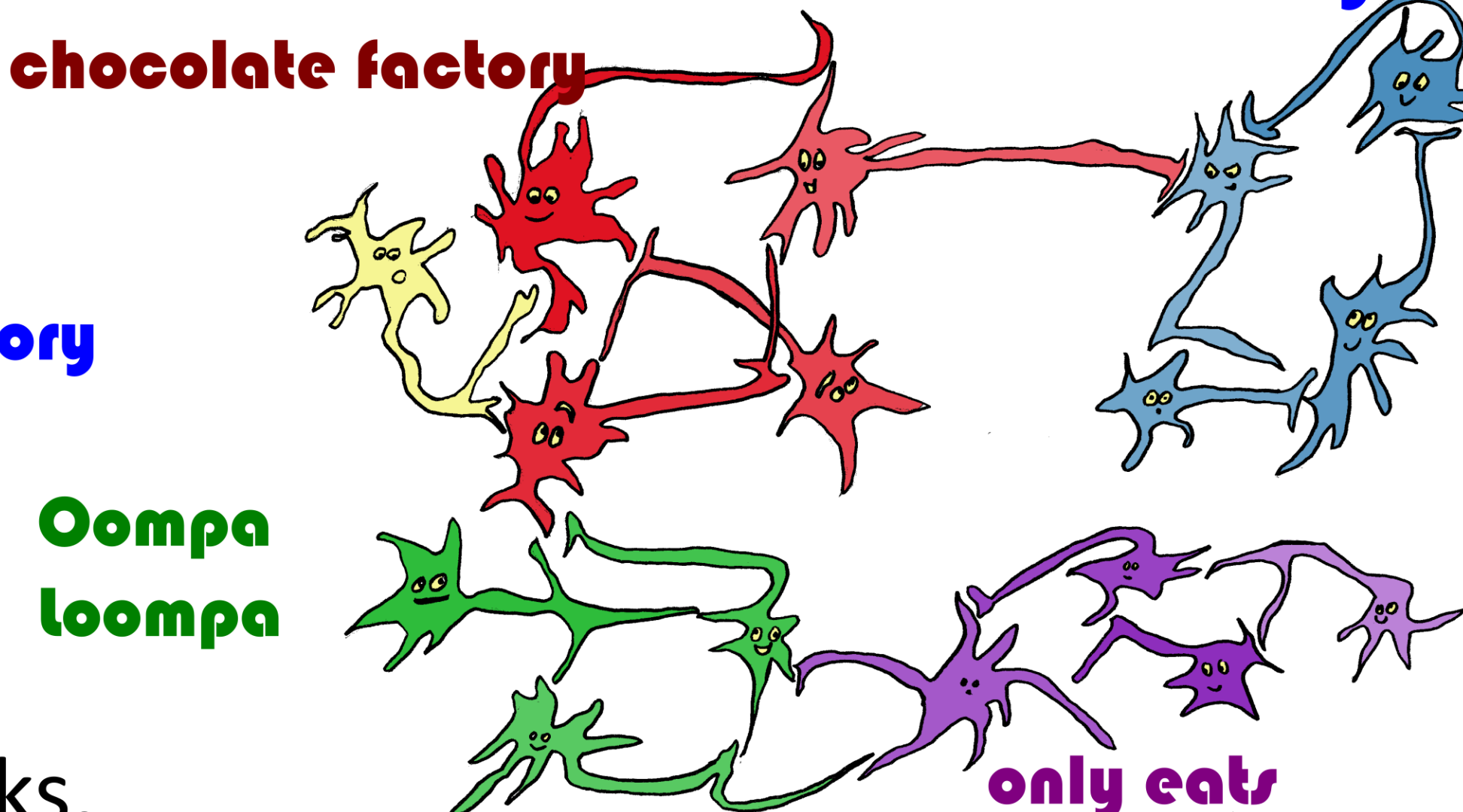


chocolate factory

And therefore, the knowledge is one big network of information

Charlie and the chocolate factory

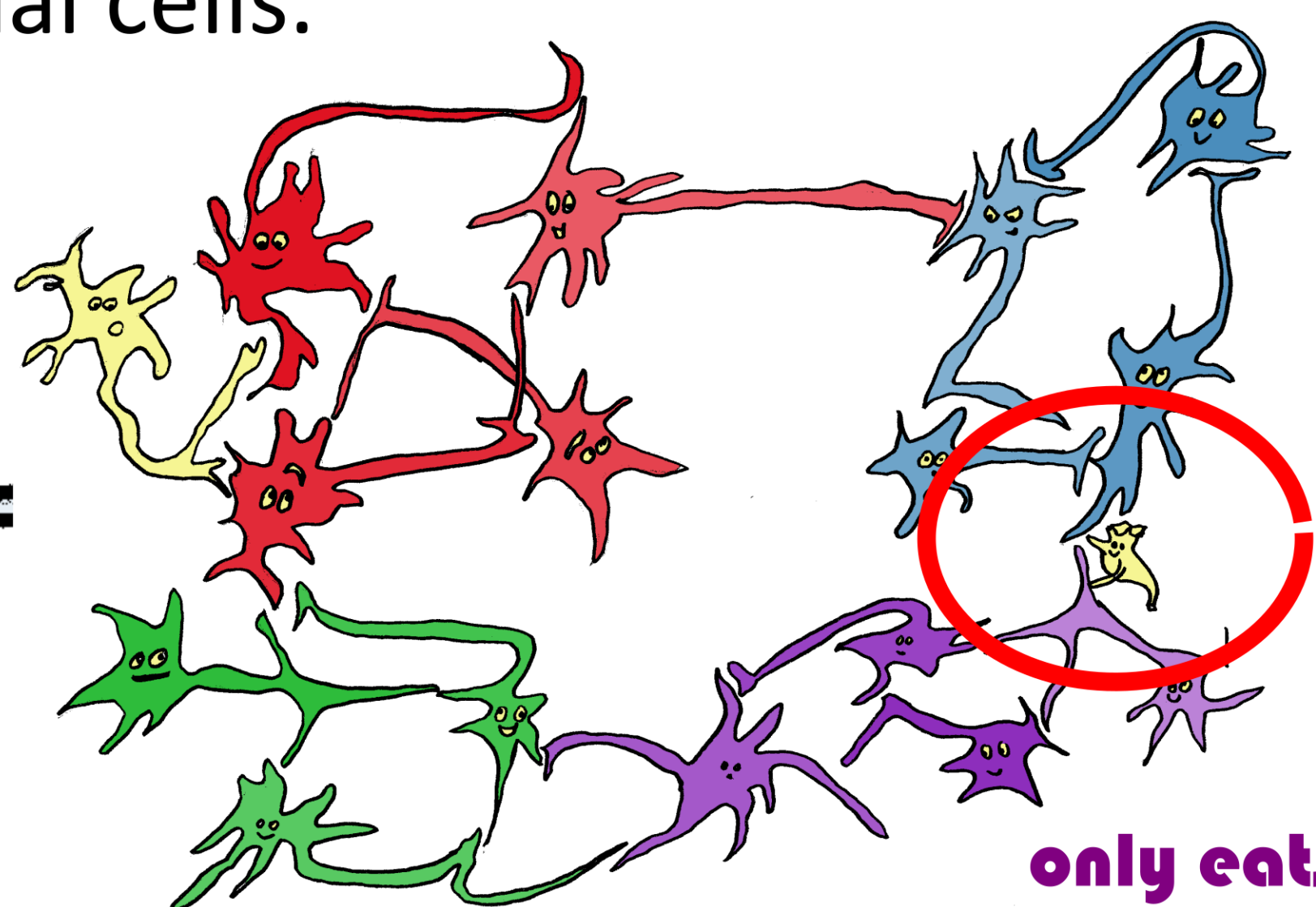
chocolate factory



Oompa loompa

only eats chocolate

The knowledge gets reinforced by the building of new links between networks, thanks to glial cells.



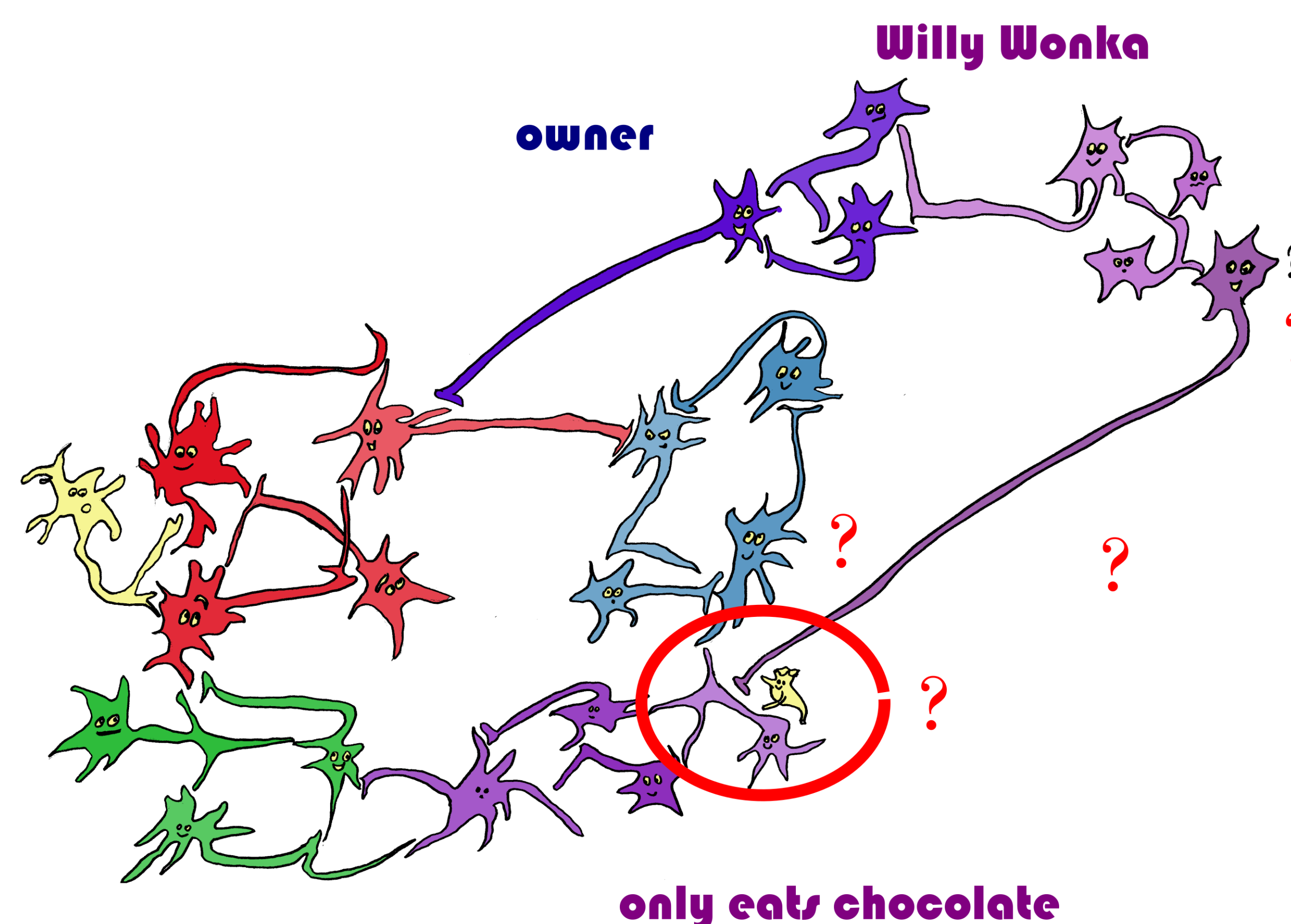
only eats chocolate

"Eureka! Oompa loompa only eats chocolate from the chocolate factory."

But sometimes, the brain has it wrong.



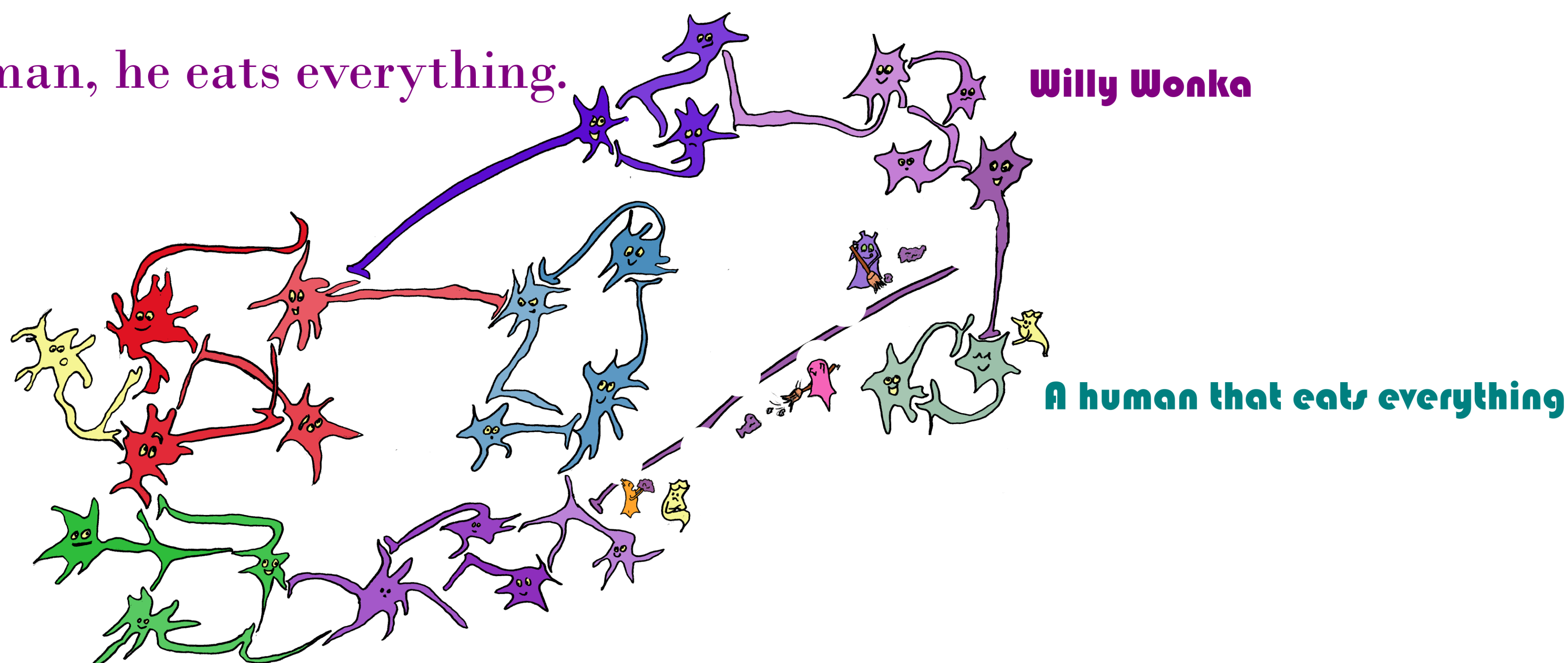
If Willy Wonka would also be making chocolate, he would also be eating only chocolate like the Oompa Loompas



only eats chocolate

So, the connection that was made needs to be undone and a new one has to be made.

Hm no, he doesn't. He is a human, he eats everything.



Willy Wonka

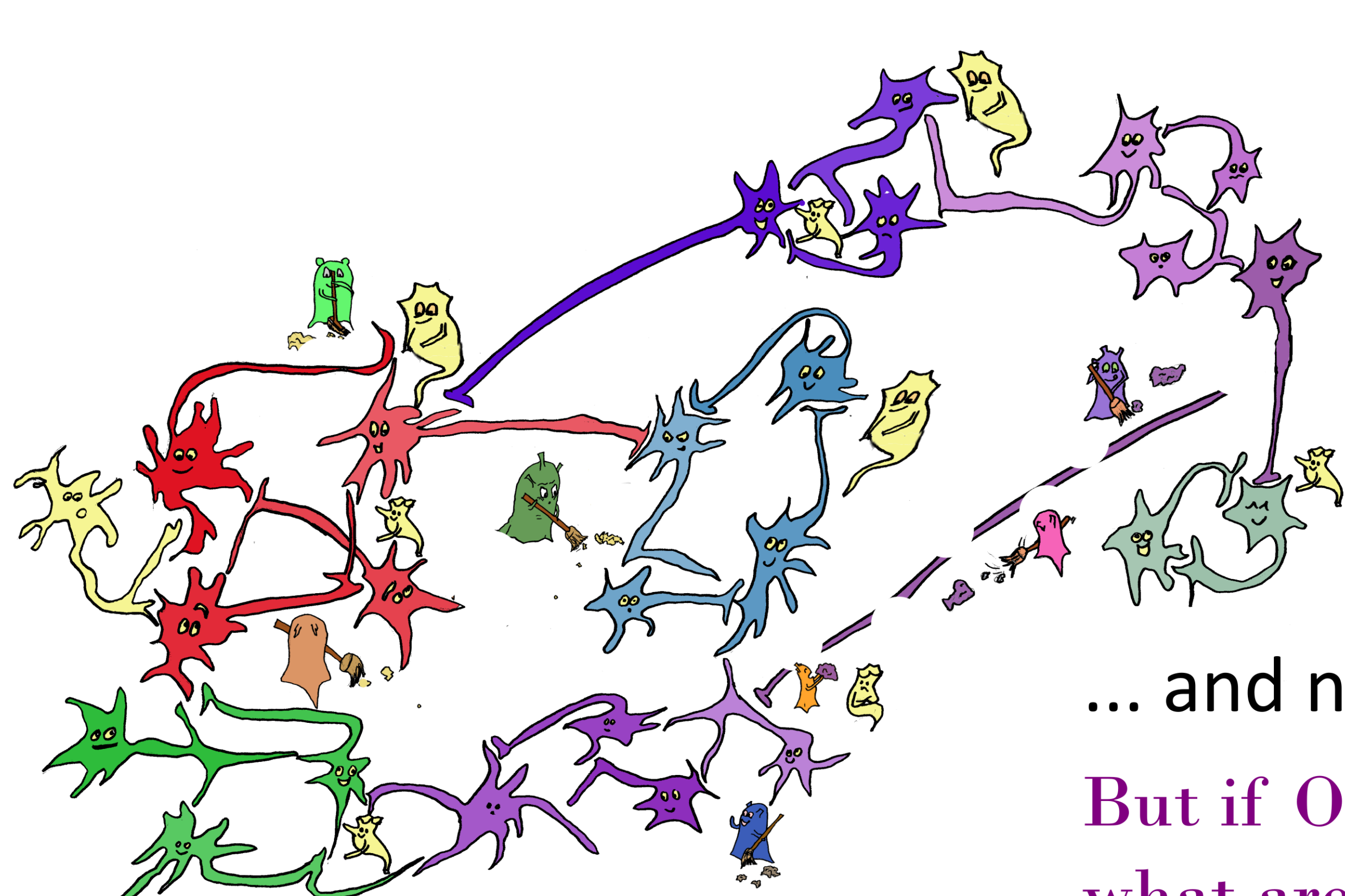
A human that eats everything

The new network is still strong because networks are currently activated by the act of questioning about the answer. Microglia are cleaning the waste of communication to be better able to save the correct answer.

Astrocytes support the communication and help in making the connections.

Everyone is ready for it.

So, instead of making a weak link between "willy wonka" and "a human that eats everything", multiple links are made ...



... and new questions arise.

But if Oompa Loompas are not humans, what are they?

