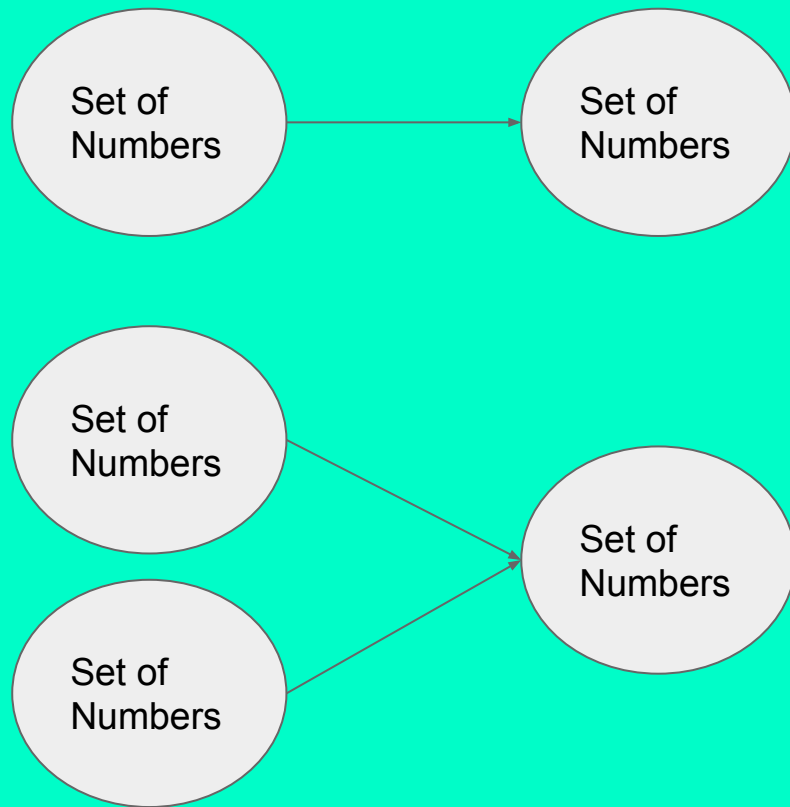


# FUNCTIONS, CPUS AND OTHER ANIMALS...

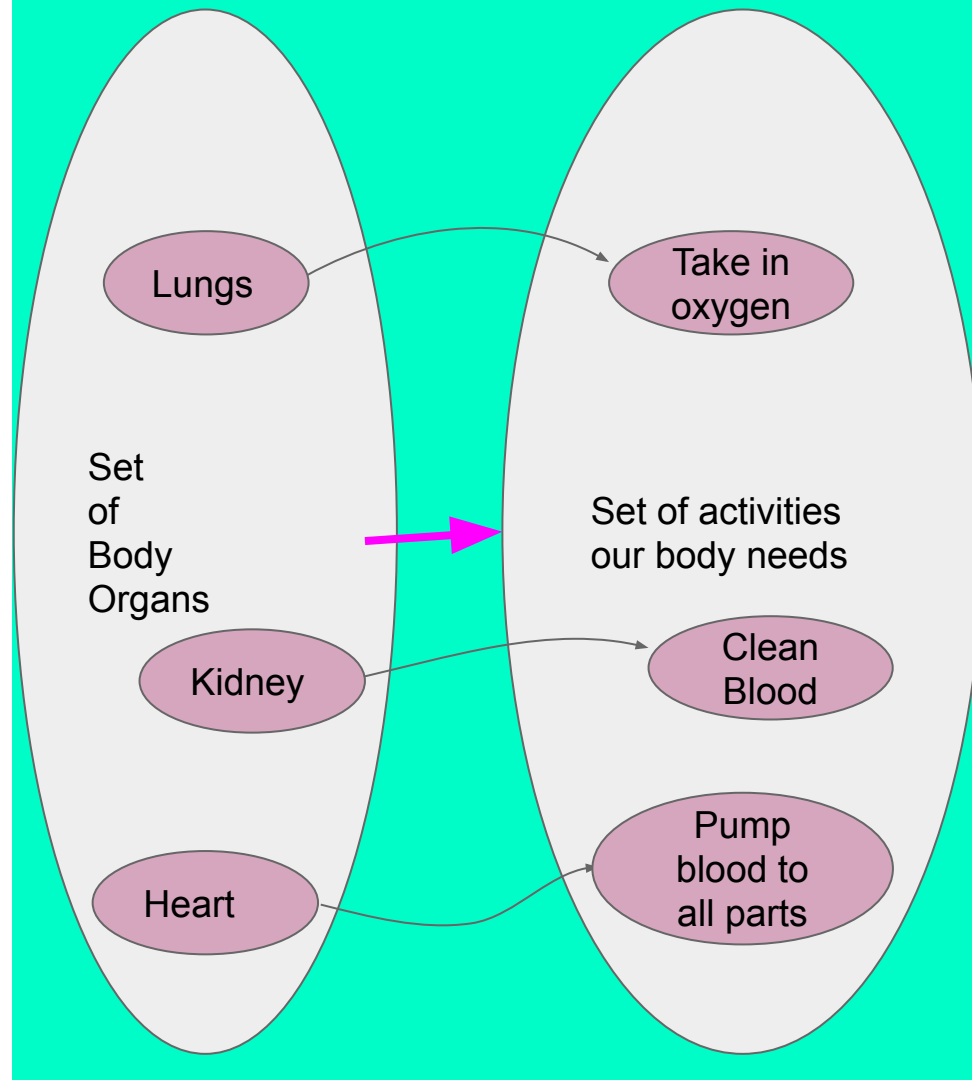
**Yo!**

FUNCTIONS ARE  
ARROWS...



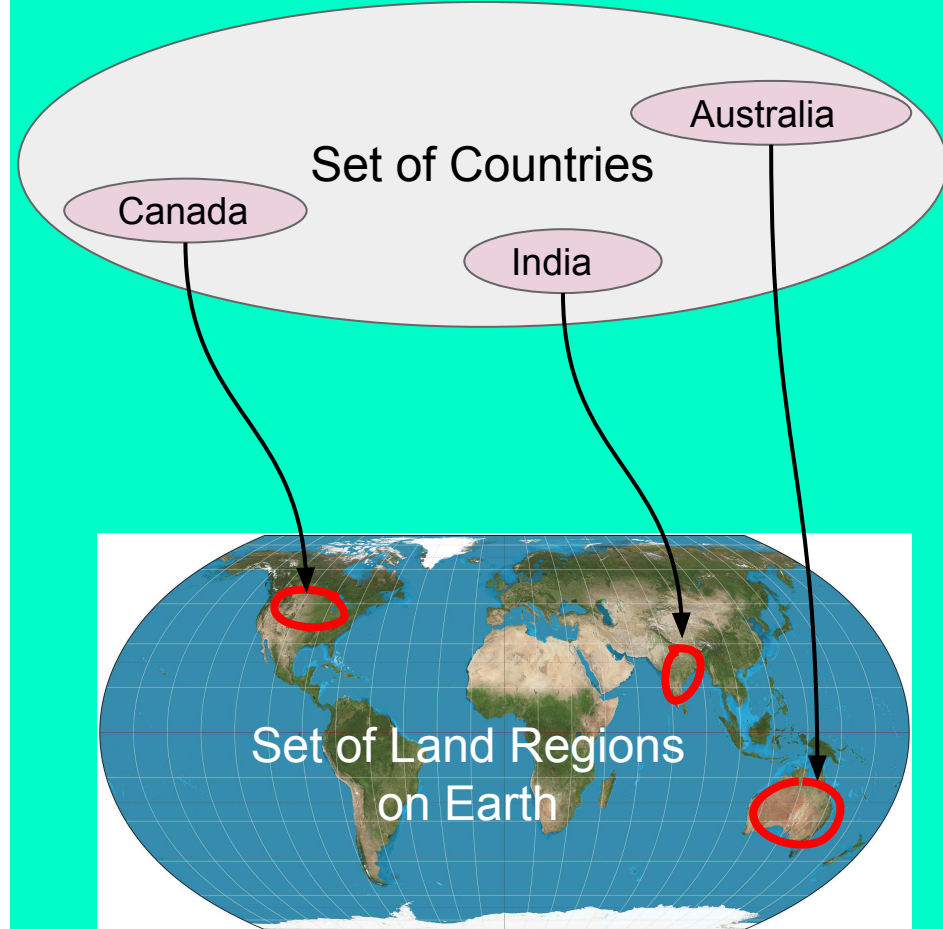
# SCIENCE

You'll see functions everywhere



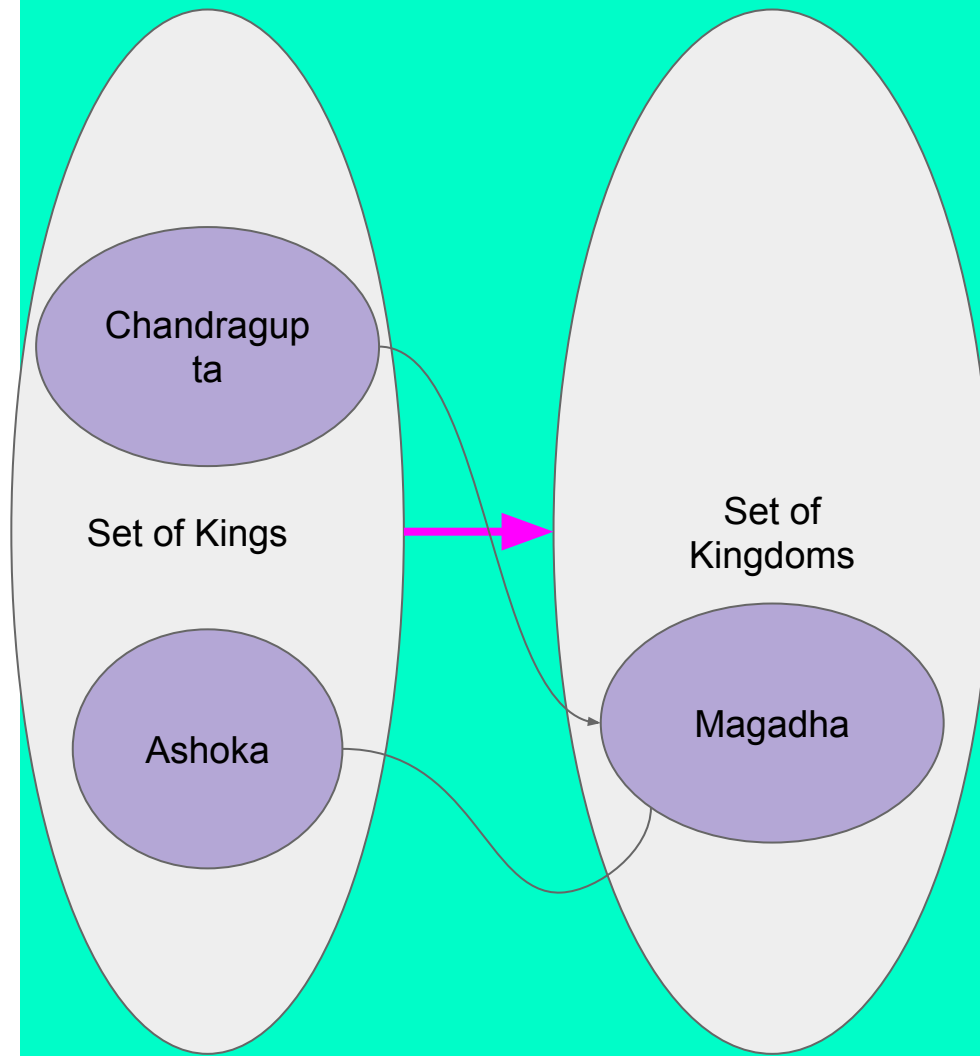
# GEOGRAPHY

In fact, relations are also called  
MAPs



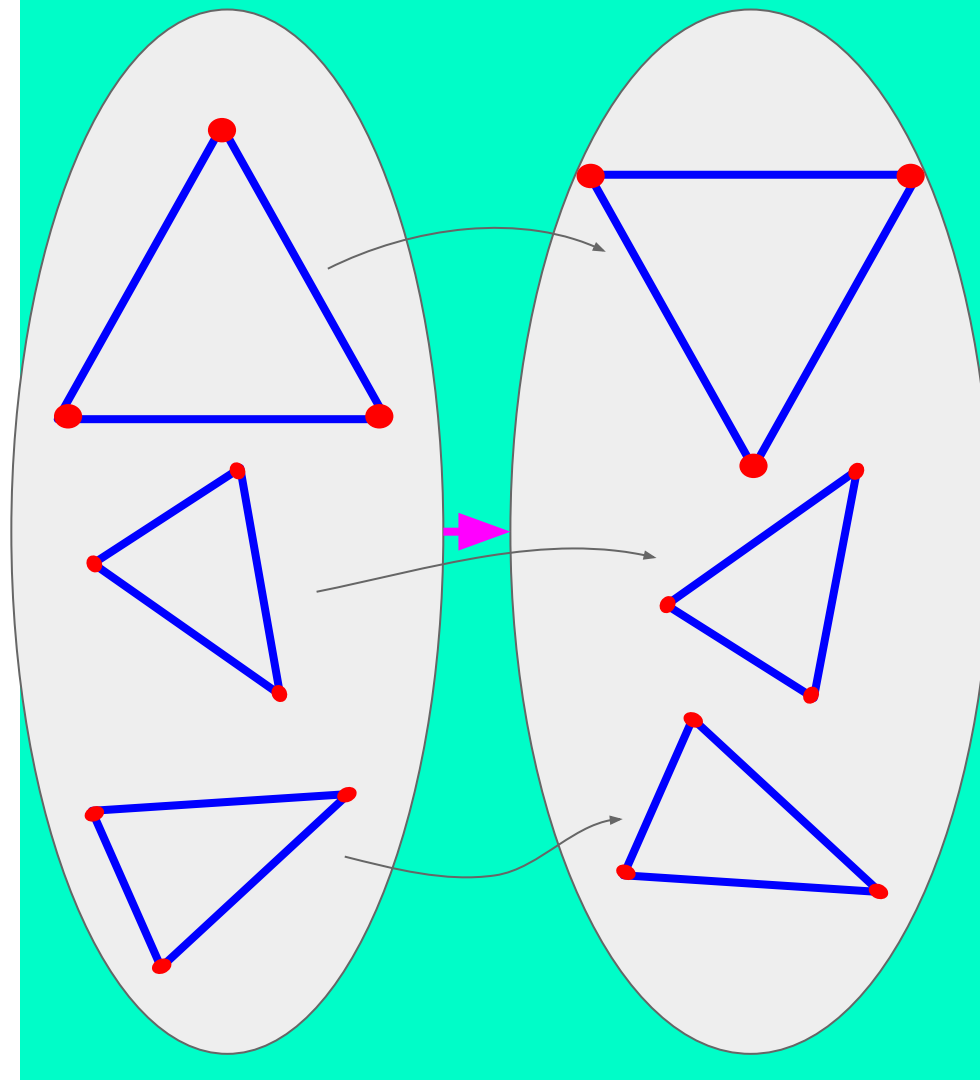
# HISTORY

You'll see functions everywhere



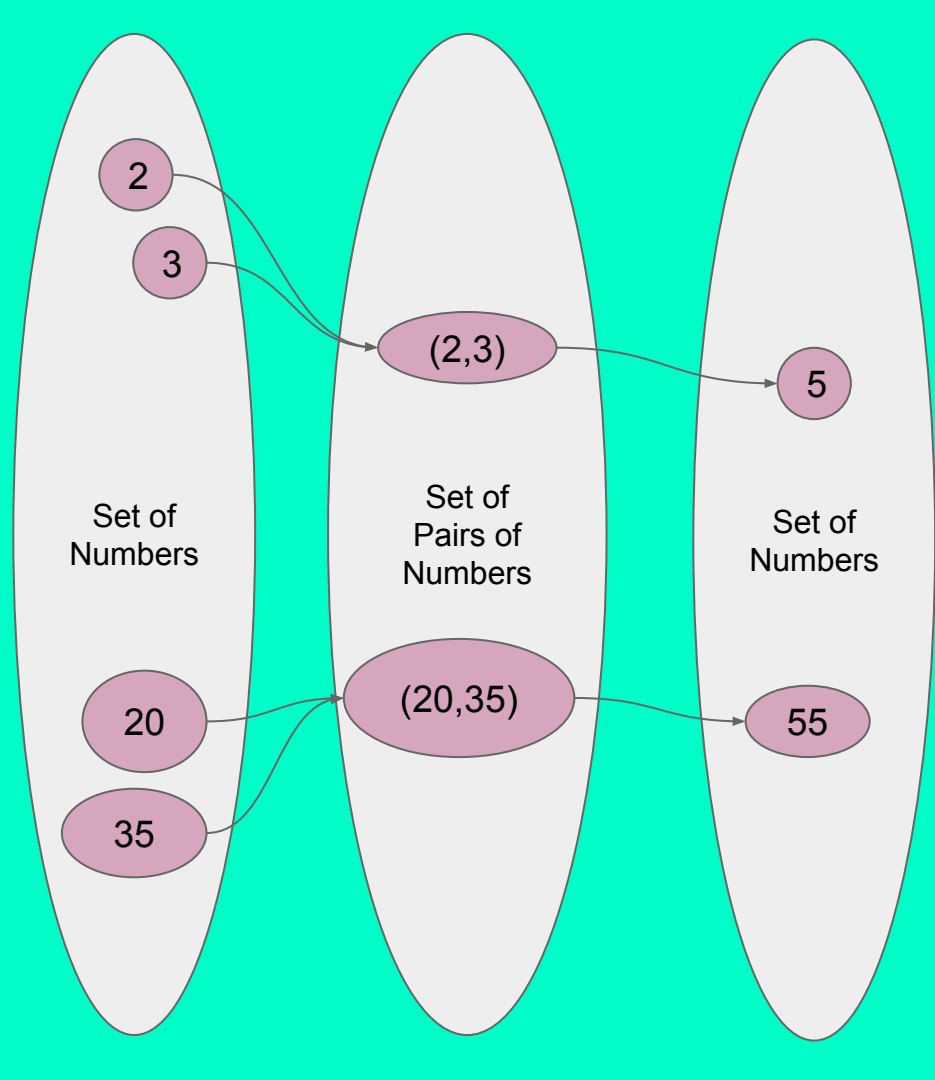
# GEOMETRY

You'll see functions everywhere

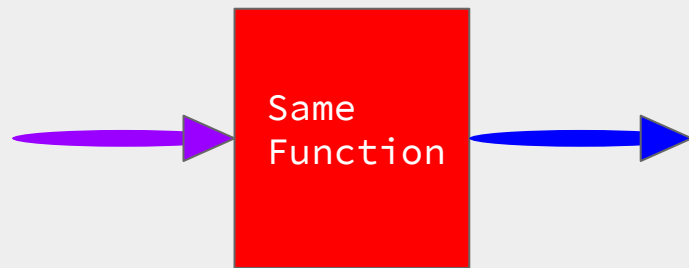
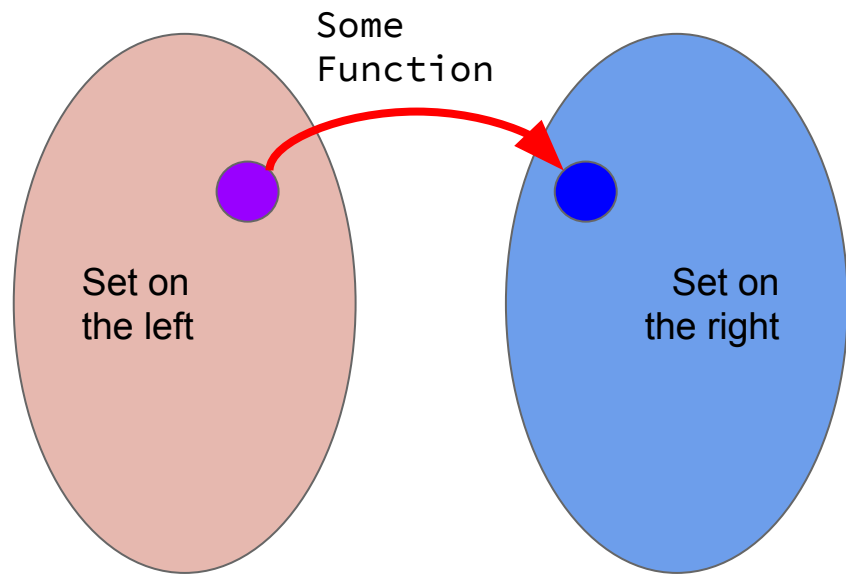


# ARITHMETIC

You'll see functions everywhere

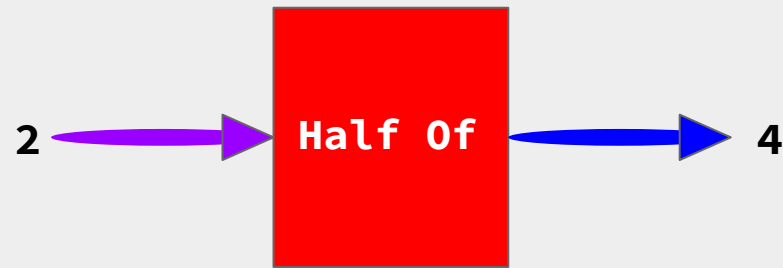
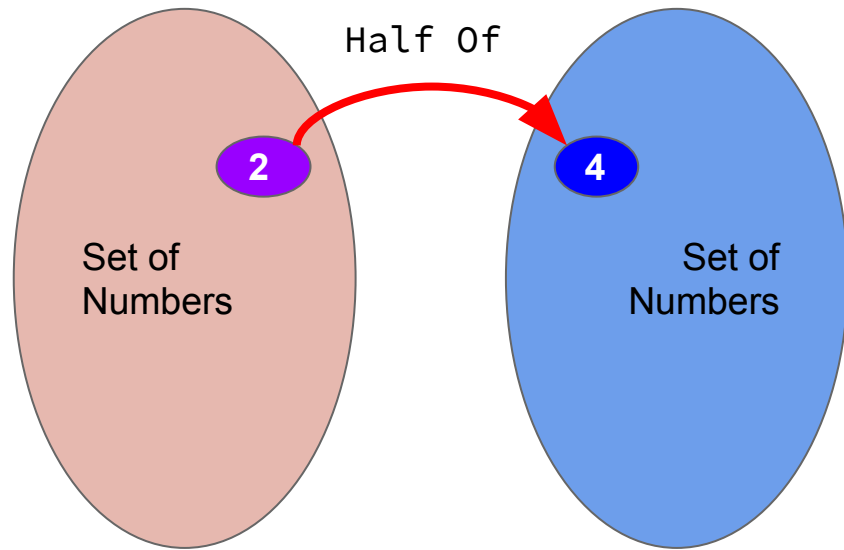


# WHAT DOES IT MEAN?



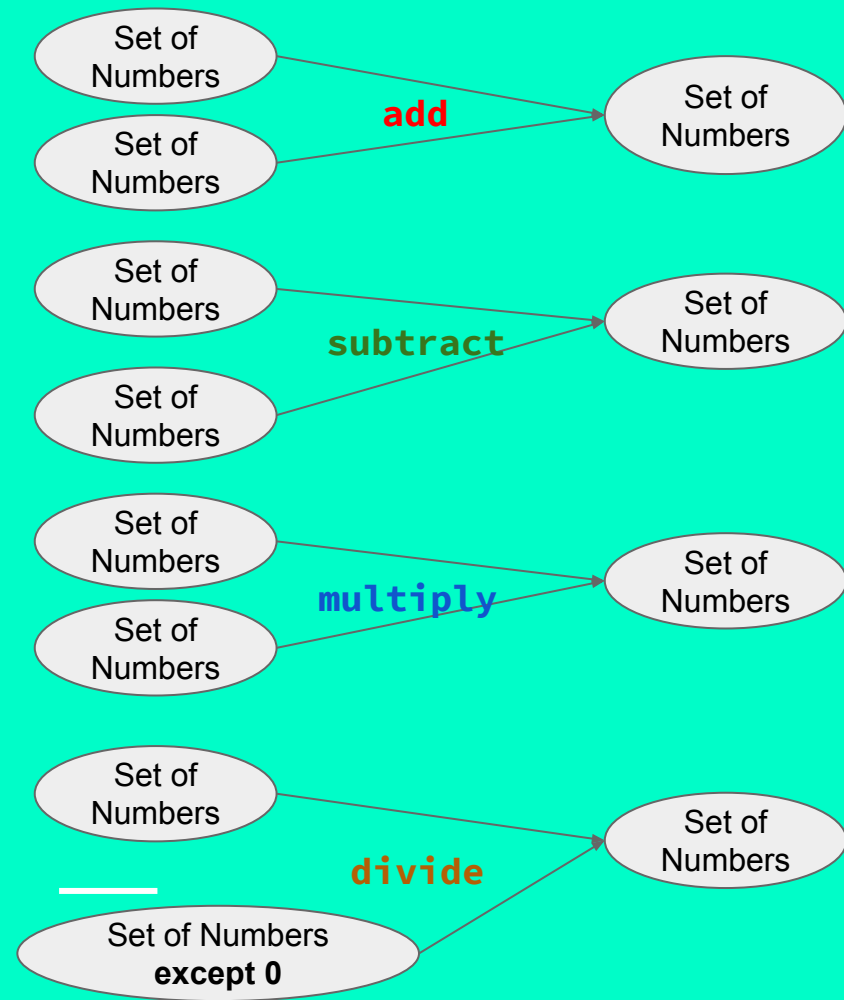


# FOR EXAMPLE

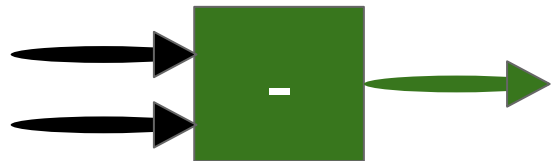
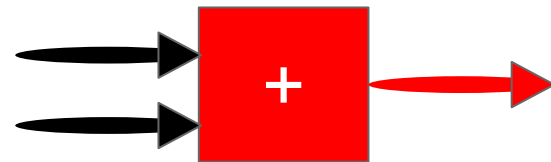
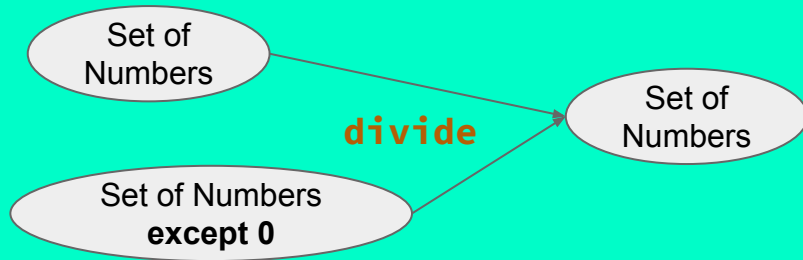
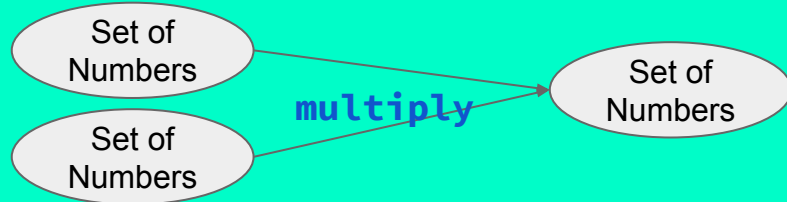
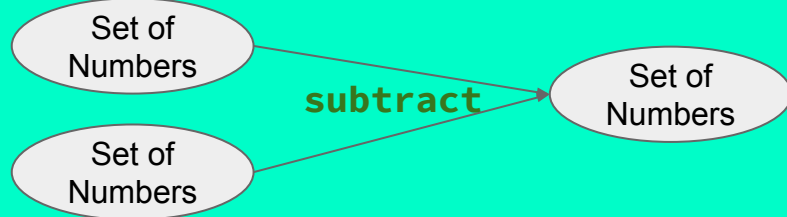
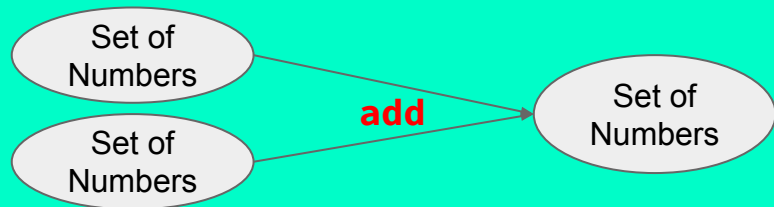


OKAY, SO

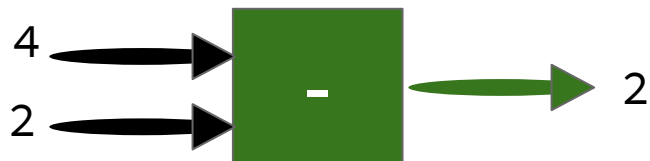
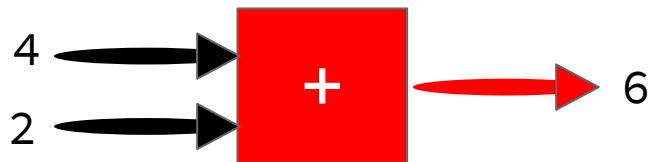
$+$   $-$   $\times$   $\div$



SAME THING



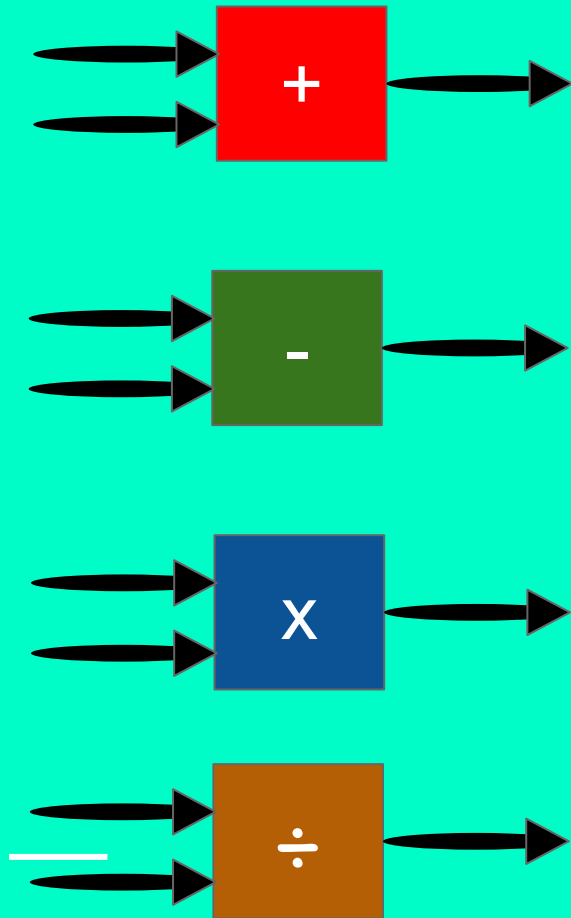
So...



Be  
comfortable  
with the  
idea of TWO  
inputs to a  
function

CHOOSE  
WHICH ONE...

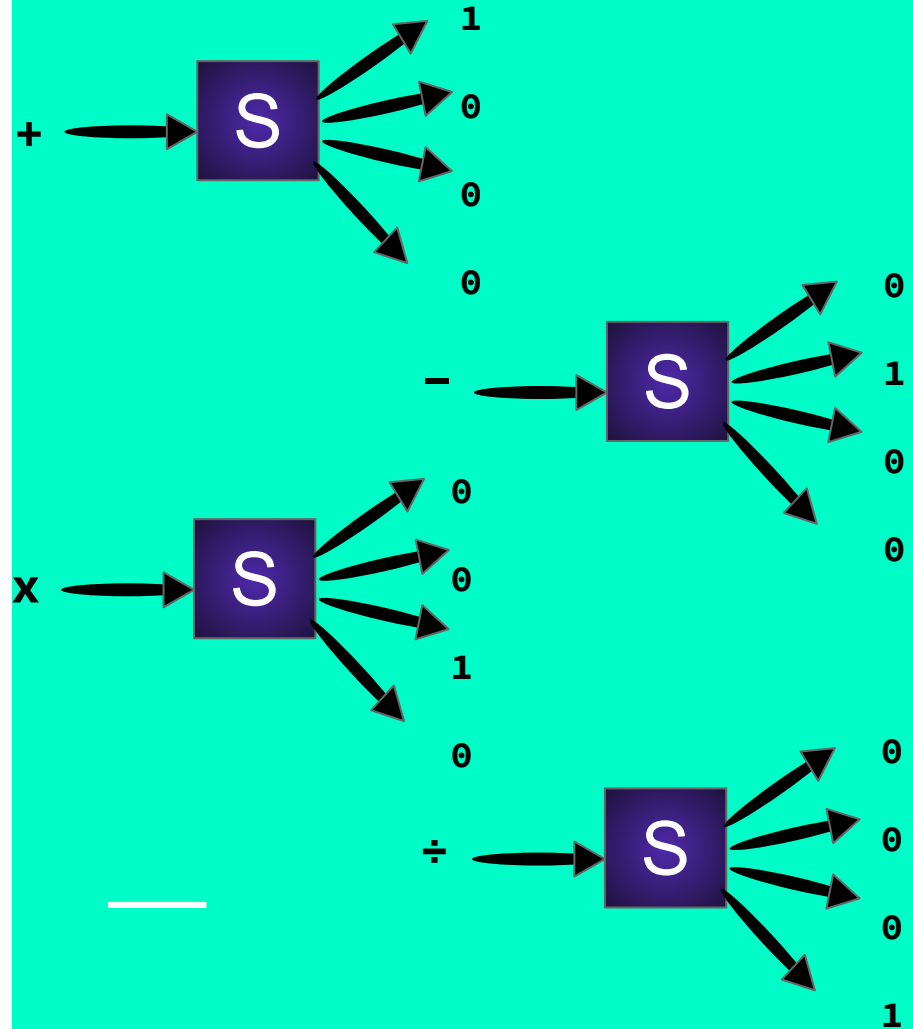
Can you see it...



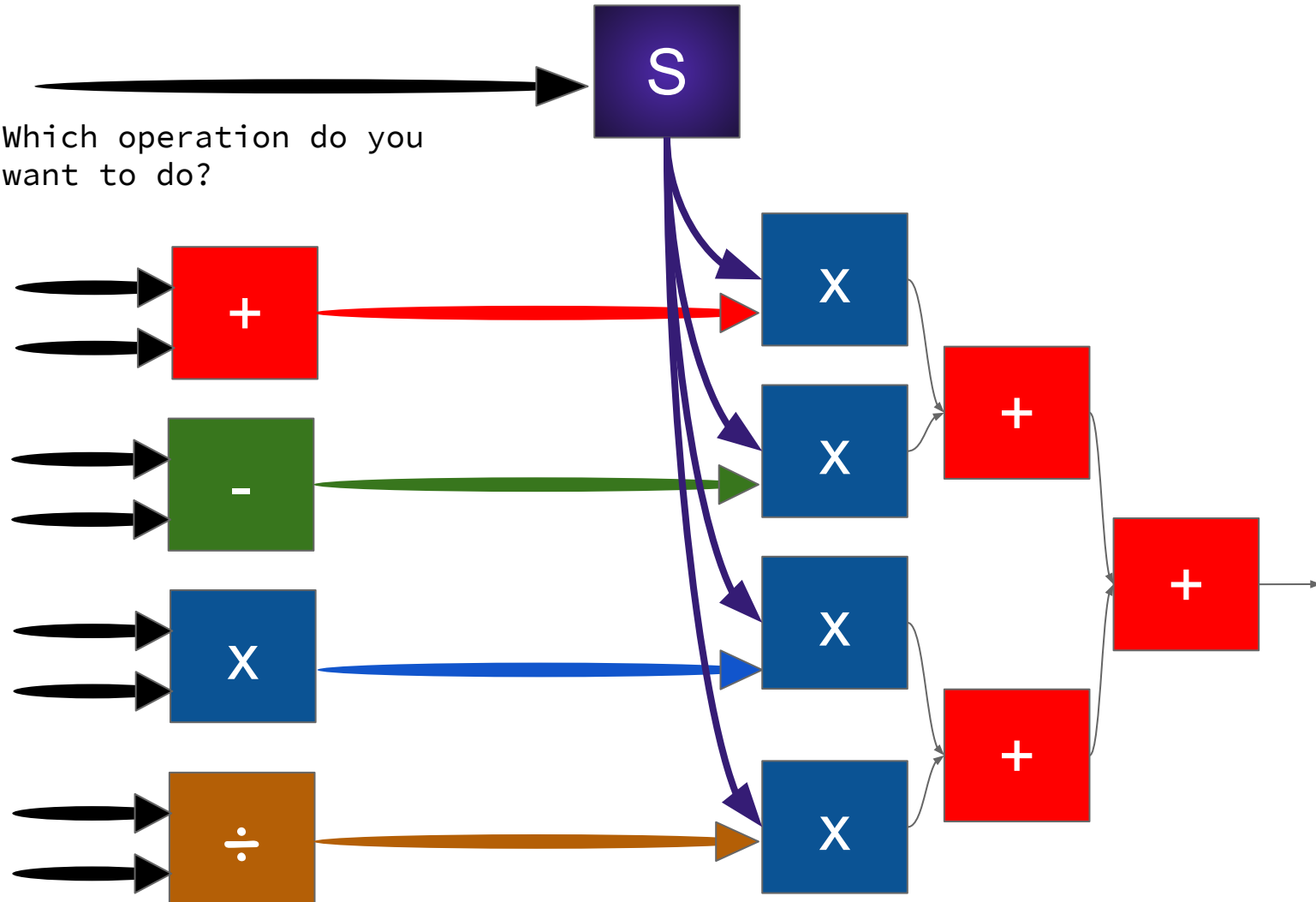
# THE SWITCH FUNCTION

Set of basic  
arithmetic  
ops  
 $\{ +, -, \times, \div \}$

{  
(1, 0, 0, 0),  
(0, 1, 0, 0),  
(0, 0, 1, 0),  
(0, 0, 0, 1)  
}



Which operation do you want to do?



HERE  
IT  
IS..