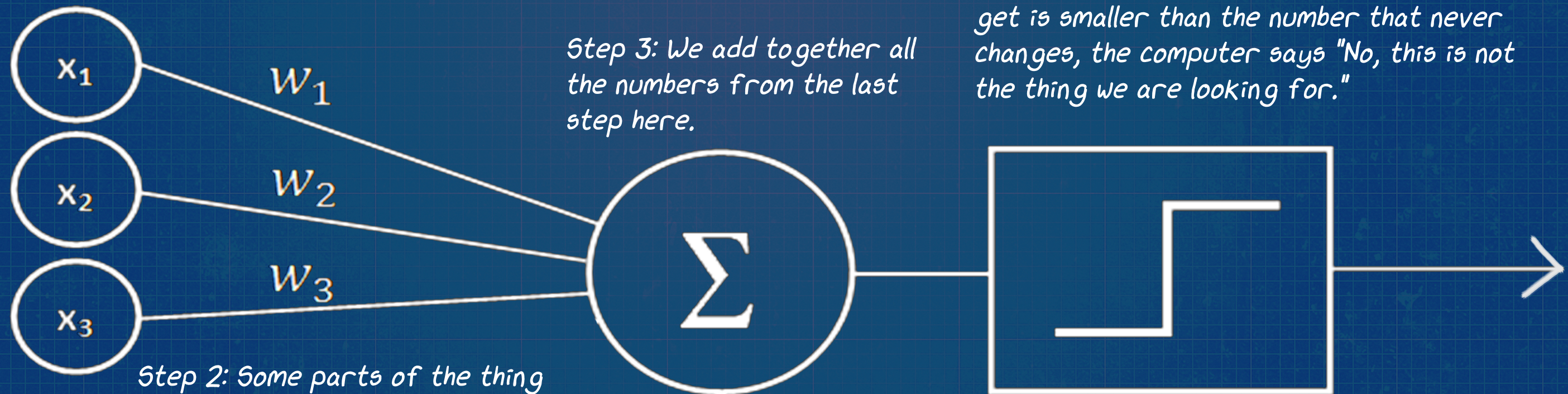# The Computer Brain

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We humans can learn and think very well, and we are very good at telling what different types of things are. Computers talk only numbers, so how can we make them tell us what different things are?

The Computer Brain is a set of steps that a computer can follow to give a good guess on what different things are. The Computer Brain is good at answering Yes or No questions. So you can ask it questions such as "Is this thing a dog?"

Step 1: Tell the Computer Brain all about what you're looking at. Tell it all of the thing's parts and what it does, such as how big it is, what sounds it makes, and what color it is. With computers, you can turn all those things into numbers.

Step 3: We add together all the numbers from the last step here.

Step 4: Finally, we check that number against a different number that never changes. If the number it gets is bigger than the number that never changes, then the computer can say "Yes! This is the thing we are looking for." If the number we get is smaller than the number that never changes, the computer says "No, this is not the thing we are looking for."

Step 2: Some parts of the thing you're looking at are more important than other things. We give the more important parts bigger numbers. If something is not important, we make the number smaller.

x_1 x_2 x_3 w_1 w_2 w_3 Σ