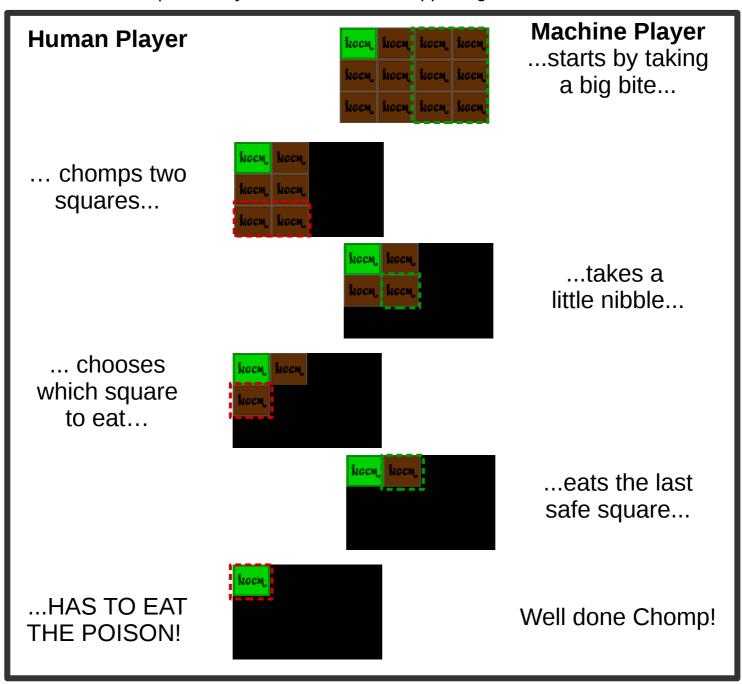
We can use computers to do lots of different jobs in science and engineering. Normally, an **expert** will take what they know about a subject, and write a **program** for the computer. The computer then works through the program, doing **calculations** much faster than any human could, and out pops the answer.

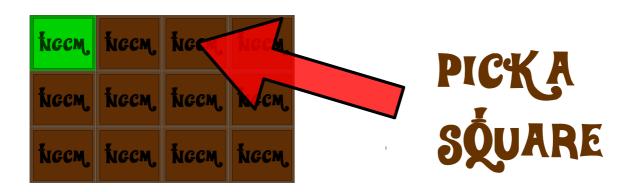
Machine Learning is a way of getting a computer to work out the best solution to a problem on its own — without writing down a program. Chomp uses what's called reinforcement learning to work out what is the best way to win. We only need to tell it the rules of the game.

You can't look inside a real computer, so we've made a **working model** of the inside of a computer, so you can see what's happening.



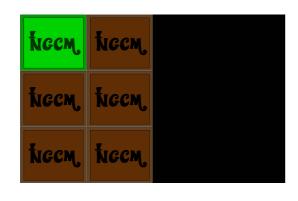
In this game, the machine won, so we **reward** those winning moves, making them more likely in future. The losing moves made by the human are **penalised**, making them **less likely** for the machine to choose later.

## How to chomp...



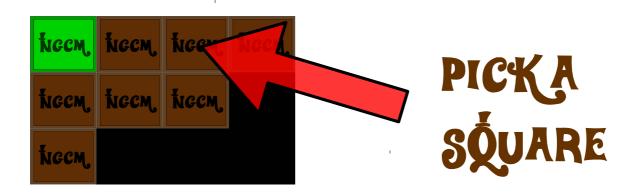
<b>NGCM</b>	NGCM	hecm	NGCM
NGCM	NGCM	NGCM	NGCM
NGCM	NGCM	NGCM	NGCM

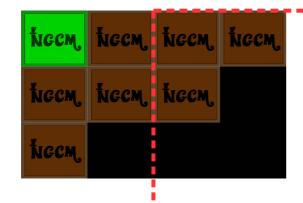
## REMOVE SQUARES BELOW AND RIGHT



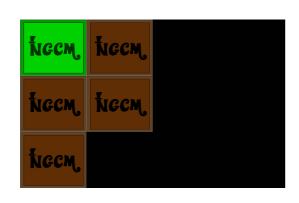
DON'T EAT THE POISONED SQUARE!

## How to chomp...





## REMOVE SQUARES BELOW AND RIGHT



DON'T EAT THE POISONED SQUARE!