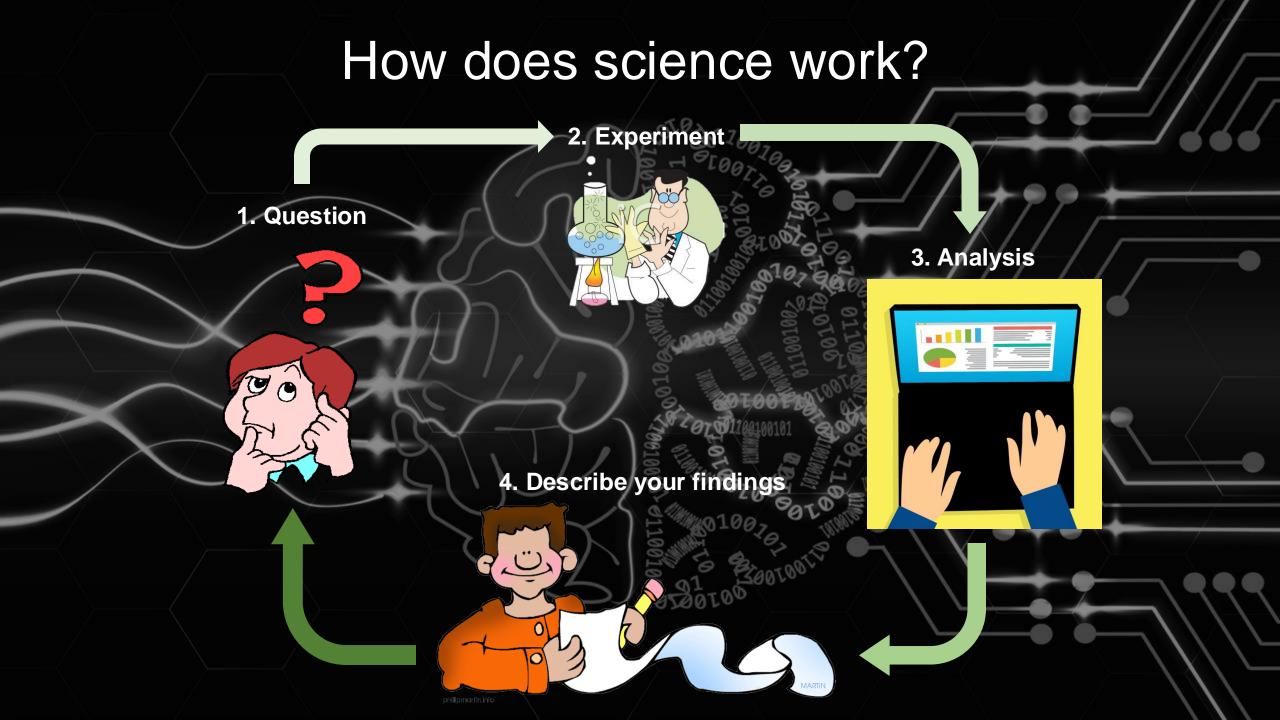
Skype a Scientist:

Brains and Computers

Dr. Davide Valeriani

Massachusetts Eye and Ear /
Harvard Medical School, Boston MA
www.davidevaleriani.it



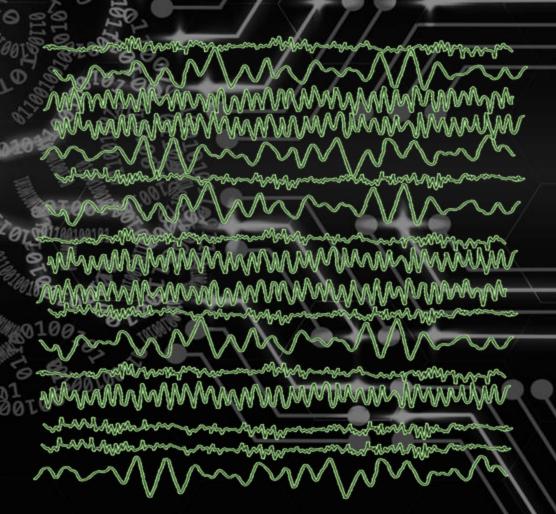


How do I study the brain?

This is **Bob**, and will do an experiment with us today

We put a special cap on him to "listen" to his brain





We can also see Bob's brain

We put Bob in special machines called MRIs to "see" how his brain looks like

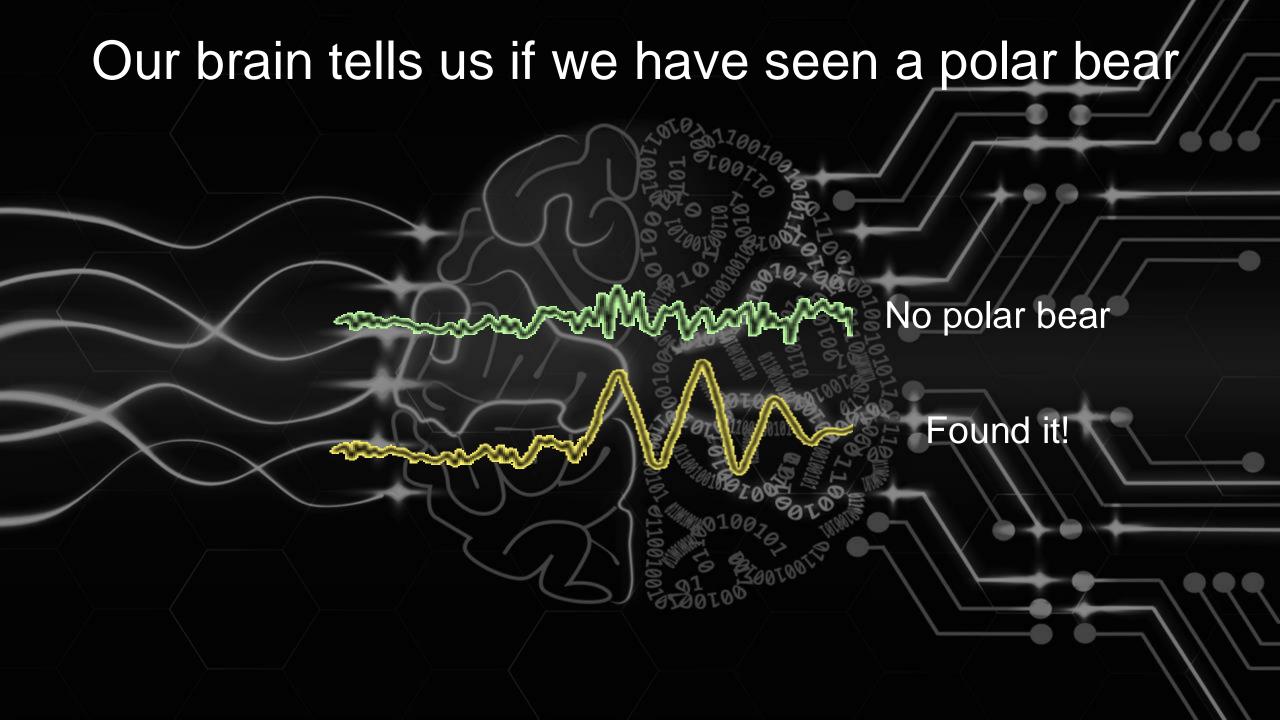


Do you want to see Bob's brain?

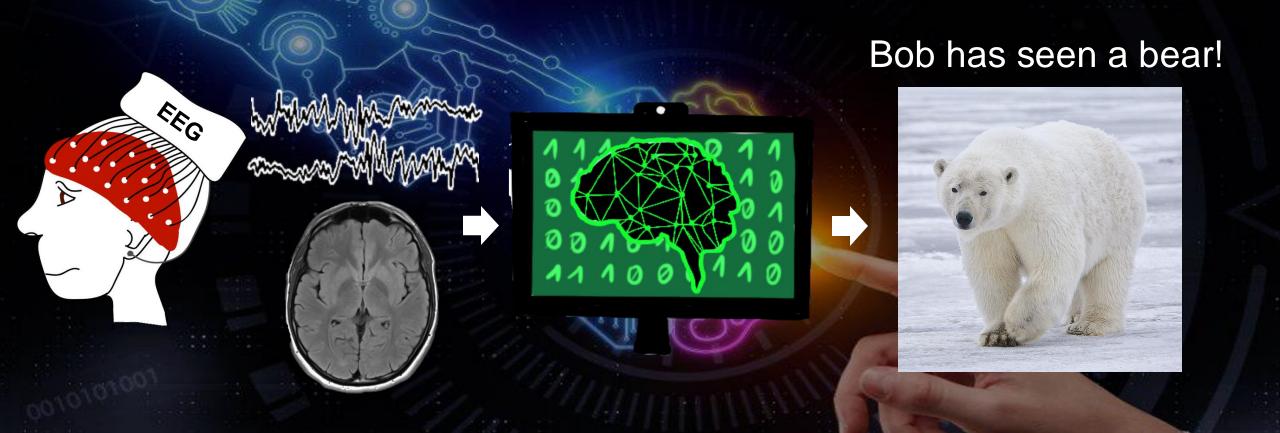
Our experiment

While listening and seeing Bob's brain, we let Bob play a game: we show him a picture and ask him to find the **polar bear**, if there is one





How do brains and computers talk to each other?



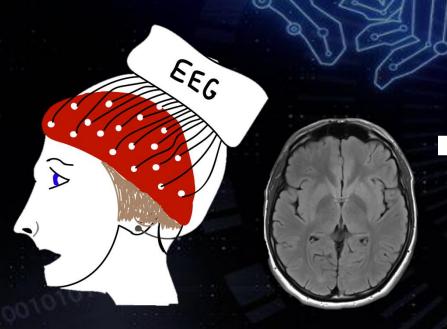
This is a **Brain-Computer Interface**

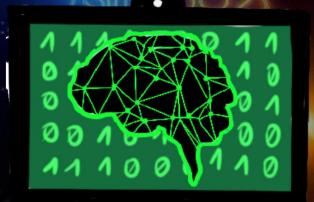
Computers help us understand the brain

Alice does not feel very well today

The computer looks at her brain

And helps the doctor understand what the problem is







Time for questions!

