

Is free will an illusion, and how can we tell?

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It is perhaps the most famous experiment in neuroscience. In 1983, [Benjamin Libet](#) sparked controversy with his demonstration that our sense of free will may be an illusion, a controversy that has only increased ever since.

Libet's experiment has three vital components: a choice, a measure of brain activity and a clock.

The choice is to move either your left or right arm. In the original version of the experiment this is by flicking your wrist; in some versions of the experiment it is to raise your left or right finger. Libet's participants were instructed to "[let the urge \[to move\] appear on its own at any time without any pre-planning or concentration on when to act](#)". The precise time at which you move is recorded from the muscles of your arm.

Physiologists had known for decades that a fraction of a second before you actually move the electrical signals in your brain change. So it was in Libet's experiment, a fraction of a second before participants moved, a reliable change could be recorded using the electrodes. But the explosive result was when participants reported *deciding* to move. This occurred *in between* the electric change in the brain and the actual movement. This means, as sure as cause follows effect, that the feeling of deciding couldn't be a timely report of whatever was causing the movement.

Read full, original post: [Why do we intuitively believe we have free will?](#)