

NEURALINK: EXPLORING THE IMPLICATIONS OF MIND CONTROL TECHNOLOGY

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What is Neuralink?

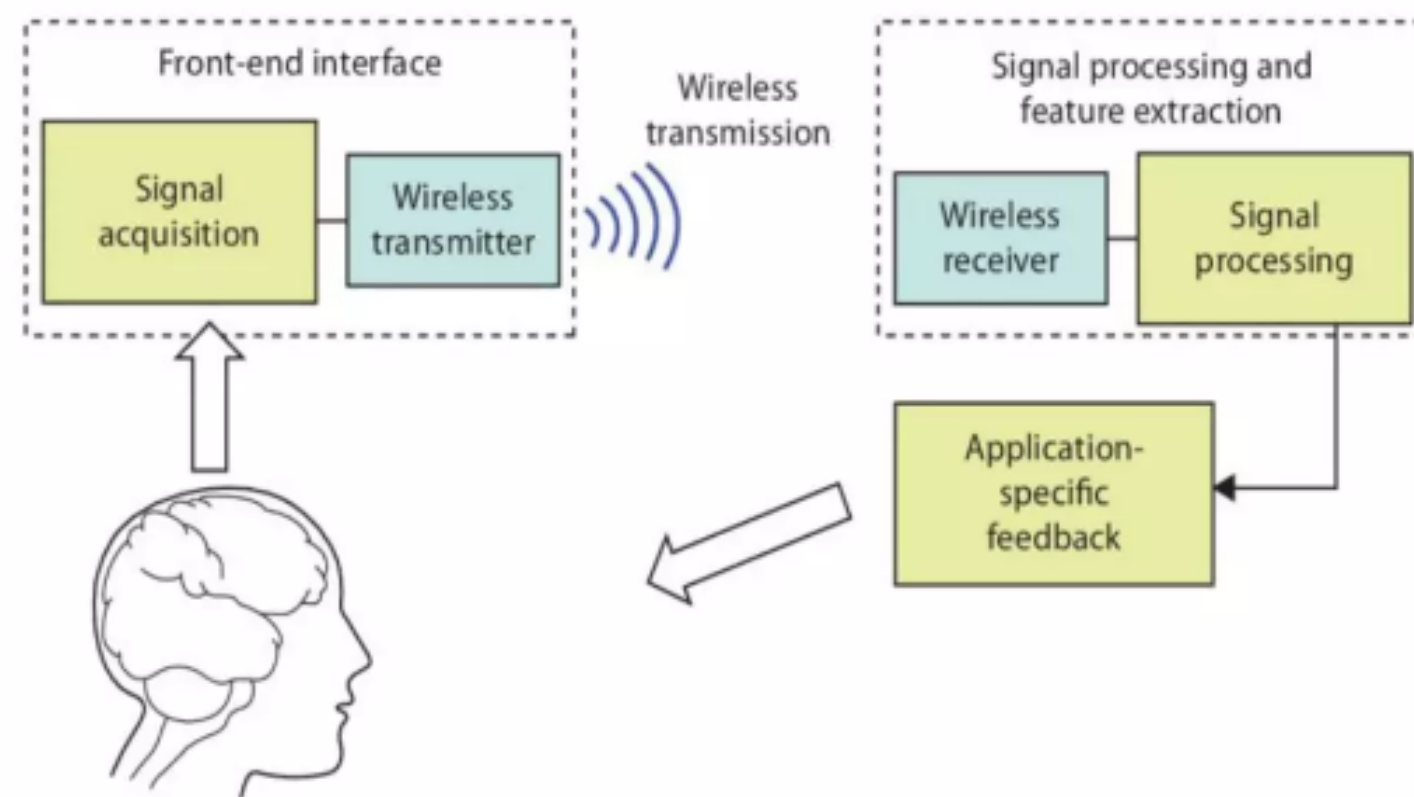
Neuralink is a device, specifically, a Brain–Machine Interface, that will be surgically implanted into your brain and with it, you'll be able to communicate with machines and even control them.



Why Neuralink?

- Helps people with severe spinal cord injury by giving them the ability to control computers and mobile.
- Restoring motor and sensory function and the treatment of neurological disorders.
- Preserve and enhance your own brain.
- Security will be built into every layer of the product, using strong cryptography, defensive engineering, and extensive security auditing.
- You'll be able to communicate with machines and even control them.

Working



- Principle of Brain Machine Interface.

- Neurons communicate with each other by sending and receiving very small electrical signals, these signals can be heard with advanced electrical sensors.

- Signal processing has
 - Preprocessing
 - feature extraction and
 - feature translation.

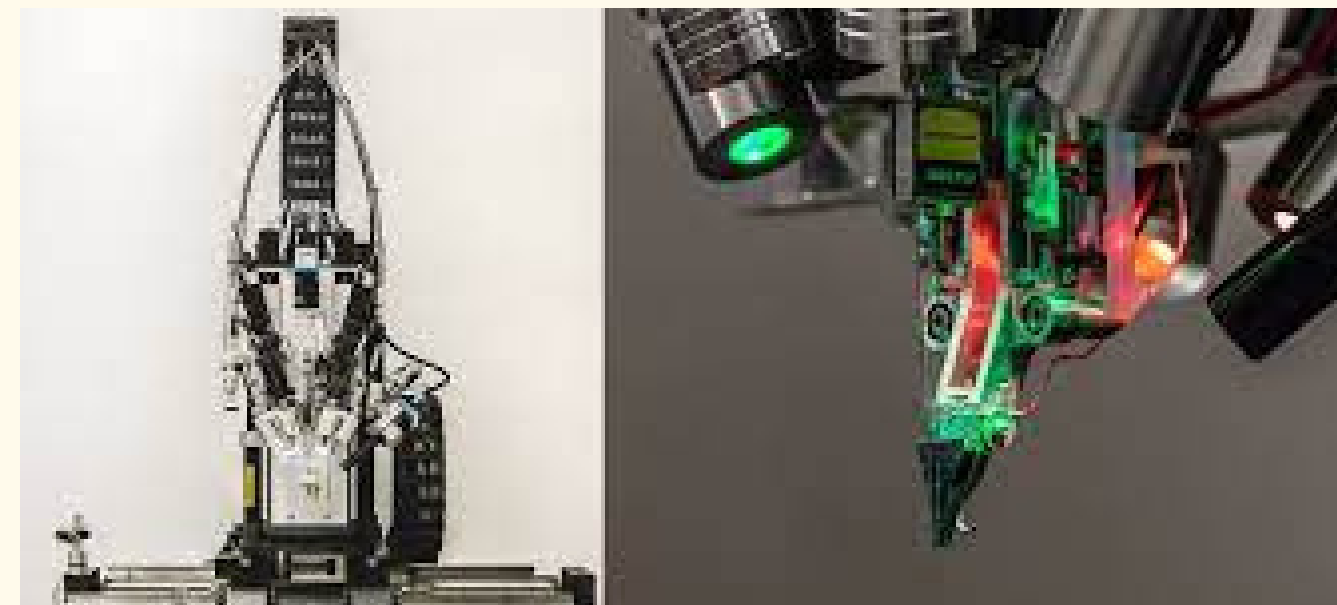
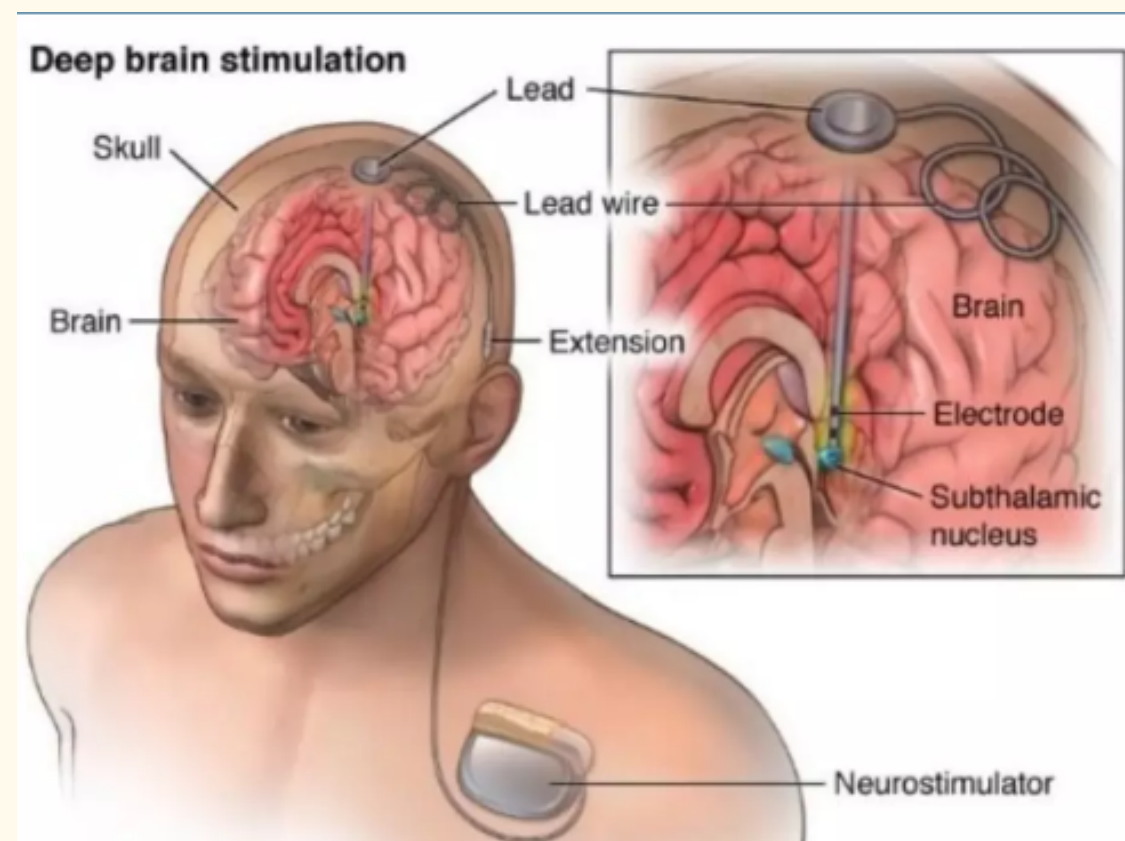
01 How Neuralink is different from other BMI devices?

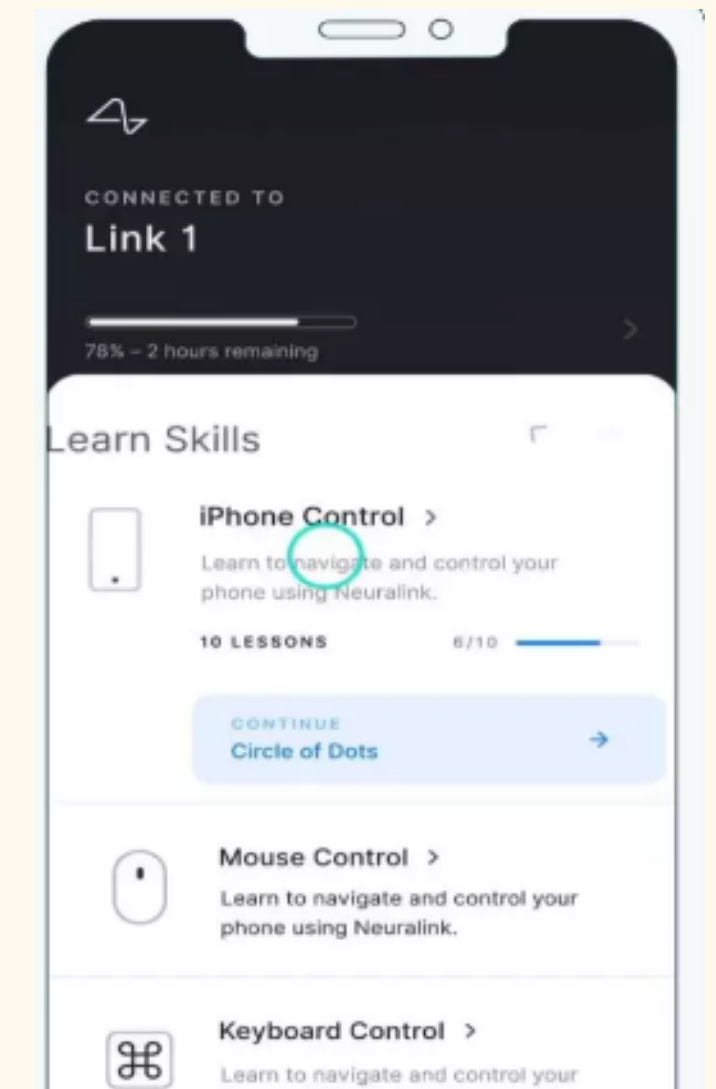
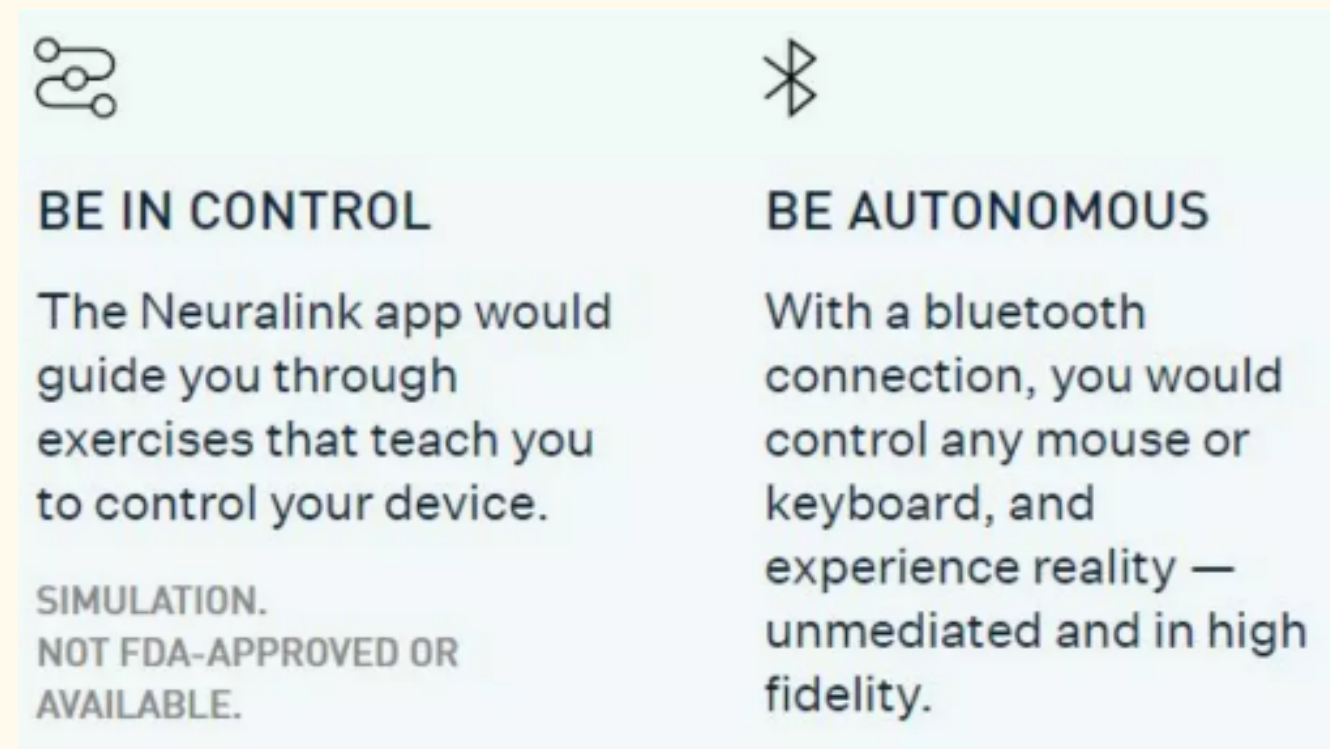
There are currently only a few approved devices for recording or stimulating from the human brain.

02 How is it placed in the body?

A robotic system will be used.

The neurosurgical robot capable of inserting six threads per minute.





03 The Neuralink App

The Neuralink app would allow you to control your iOs device, keyboard and mouse directly with the activity of your brain, just by thinking about it..

04 Challenges in making scalable BMI

Scale up the number of electrodes while also building a safe and effective clinical system that users can take home and operate by themselves.

Conclusion

- Neuralink has developed advanced solution to existing medical problems.
- It will surely create a well aligned future.
- Implantation will be done in less than a hour and leave hospital the same day.
- Neuralink is still at an early stage (it's at version 0.9).
- We have no current idea of how much the brain chips will cost.t

Thank you.

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