**This post answers the question “What is the difference between NAND and NOR flash memory?”. Nonvolatile**[memory](https://www.student-circuit.com/learning/year3/embedded-systems/embedded-cpu-and-memory/)**is a memory that keeps it content even not powered. Nonvolatile memory can be in different forms.**

ROM – read only memory, data written once, allows multiple read access.

PROM – programmable read only memory, data written once (not at the manufacture process, but anytime later), allows multiple read access.

EPROM – erasable programmable read only memory, it can be reprogrammed after erasing the content by ultraviolet light exposure.

EEPROM – electrically erasable programmable read only memory, can be erased with voltage pulses. It can be rewritten limited amount of times. Ant it stores data for a limited time only.

Flash EEPROM – more advanced than EEPROM and fast. Allows to erase and store data in blocks, but not in bytes.

Flash memory is currently very popular. Two the most popular types are:  NOR and NAND flash memory.

NOR  and NAND flash memory are different by their architecture and purpose.

NOR memory is used for storing code and execution. Allows quick random access to any location in memory array.

NAND memory is used for data storage . Requires relatively long random access. Programming and erasing is easier than in NAND memory. Cost of bit of NAND memory is cheaper that NOR memory.