

Kit's Guide to Binary: The Language of Computers

Unlock the Hidden Code: How Computers Think!

- **Binary is a base-2 number system, meaning it only uses two digits: 0 and 1.**
- **A single piece of binary information, a 0 or a 1, is called a 'bit'.**
- **When you group eight bits together, they form a 'byte'.**
- **Computers use binary to represent everything, including text, images, and sound.**
- **The computer's processor acts like a brain, reading these patterns of 1s and 0s at lightning speed.**
- **An 'off' switch is represented by 0, while an 'on' switch is represented by 1.**

Did you know? Did you know? Even the most complex video games, colorful digital art, and your favorite websites are all built using only two numbers! Computers are made of millions of tiny electronic switches that are either 'on' (1) or 'off' (0).

Key vocabulary: Binary · Bit · Byte · Data · Processor · Switch