

## Many electronic devices use binary code, which is a system that uses two digits to represent information.

Binary code is a simple, effective way to talk to machines because it uses only two digits: ones and zeroes. You can think of each 1 and 0 like the "on" and "off" positions of a switch. Our cell phones, computers, spacecraft and other digital equipment use binary code.

## TRY WRITING YOUR OWN NAME IN BINARY CODE!

Α	01000001	N	01001110
В	01000010	0	01001111
С	01000011	Р	01010000
D	01000100	Q	01010001
E	01000101	R	01010010
F	01000110	S	01010011
G	01000111	T	01010100
Н	01001000	U	01010101
1	01001001	٧	01010110
J	01001010	W	01010111
K	01001011	Χ	01011000
L	01001100	Υ	01011001
M	01001101	Z	01011010





For a telescope like NASA's Chandra X-ray Observatory, the digital pipeline of data starts with the spacecraft that travels around Earth in an oval that takes Chandra about a third of the way to the Moon at its farthest point. During this 40,000-mile (64,000-km) journey through space, Chandra sends the data to one of NASA's Deep Space Network antennas in Australia, Spain, or California (USA), where they are downloaded.



Scan the code to learn more!

nasa.gov chandra.si.edu