

# Adding and Removing Permissions Shorthand

Shorthand yes, but long brain!

To understand how this shorthand method works we first need a little background in number systems. Our typical number system is decimal. It is a base 10 number system and as such has 10 symbols (0 - 9) used. Another number system is octal which is base 8 (0-7). Now it just so happens that with 3 permissions and each being on or off, we have 8 possible combinations ( $2^3$ ). Now we can also represent our numbers using binary which only has 2 symbols (0 and 1). The mapping of octal to binary is in the table below.

Octal	Binary
0	000
1	001
2	010
3	011
4	100
5	101
6	110
7	111

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