

# Conversion by Inspection

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Conversion between binary and hexadecimal can be done by inspection since each hexadecimal digit corresponds to exactly four binary digits (bits).

$$10011101.010111_2 = 9D.5C_{16}$$

Conversion between binary to octal can be done by inspection, except each octal digit corresponds to three binary digits, instead of four.

$$100101101011010_2 = 45,532_8$$