

- Fact: ***Hexadecimal*** is really nothing more than a new cipher using the following mapping.

<i>Hexadecimal</i> <i>Digit</i>		<i>Binary</i> <i>Nibble</i>
0 <sub>16</sub>	↔	0000 <sub>2</sub>
1 <sub>16</sub>	↔	0001 <sub>2</sub>
2 <sub>16</sub>	↔	0010 <sub>2</sub>
3 <sub>16</sub>	↔	0011 <sub>2</sub>
4 <sub>16</sub>	↔	0100 <sub>2</sub>
5 <sub>16</sub>	↔	0101 <sub>2</sub>
6 <sub>16</sub>	↔	0110 <sub>2</sub>
7 <sub>16</sub>	↔	0111 <sub>2</sub>
8 <sub>16</sub>	↔	1000 <sub>2</sub>
9 <sub>16</sub>	↔	1001 <sub>2</sub>
A <sub>16</sub>	↔	1010 <sub>2</sub>
B <sub>16</sub>	↔	1011 <sub>2</sub>
C <sub>16</sub>	↔	1100 <sub>2</sub>
D <sub>16</sub>	↔	1101 <sub>2</sub>
E <sub>16</sub>	↔	1110 <sub>2</sub>
F <sub>16</sub>	↔	1111 <sub>2</sub>

# unit 1

- Fact: Hexadecimal numbers are ***used by computer scientists*** in order to write long binary numbers more easily;