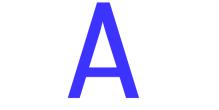


Hexadecimal	Hexadecimal		
Digit		Nibble	
$\mathbf{O}_{16}$	$\Leftrightarrow$	00002	
116	$\Leftrightarrow$	00012	
2,16	$\Leftrightarrow$	<b>0010</b> <sub>2</sub>	
316	$\Leftrightarrow$	<b>0011</b> <sub>2</sub>	
416	$\Leftrightarrow$	<b>0100</b> <sub>2</sub>	
<b>5</b> <sub>16</sub>	$\Leftrightarrow$	<b>0101</b> <sub>2</sub>	
616	$\iff$	<b>0110</b> <sub>2</sub>	
7,6	$\Leftrightarrow$	<b>0111</b> <sub>2</sub>	
816	$\iff$	10002	
916	$\Leftrightarrow$	10012	
$A_{\scriptscriptstyle 16}$	$\Leftrightarrow$	10102	
$B_{\scriptscriptstyle 16}$	$\Leftrightarrow$	<b>1011</b> <sub>2</sub>	
$C_{\scriptscriptstyle 16}$	$\Leftrightarrow$	11002	
$D_{\scriptscriptstyle 16}$	$\Leftrightarrow$	<b>1101</b> <sub>2</sub>	
<b>E</b> <sub>16</sub>	$\Leftrightarrow$	<b>1110</b> <sub>2</sub>	
F <sub>16</sub>	$\Leftrightarrow$	11112	

## 



## 



## unit 1

e.g.

Map 11101010102 to hex.

Hexadecimal		Binary
Digit		Nibble
$\mathbf{Q}_{_{16}}$	$\Leftrightarrow$	<b>0000</b> <sub>2</sub>
116	$\Leftrightarrow$	00012
2,6	$\Leftrightarrow$	<b>0010</b> <sub>2</sub>
316	$\Leftrightarrow$	<b>0011</b> <sub>2</sub>
416	$\Leftrightarrow$	<b>0100</b> <sub>2</sub>
516	$\Leftrightarrow$	<b>0101</b> <sub>2</sub>
616	$\Leftrightarrow$	<b>0110</b> <sub>2</sub>
7,6	$\Leftrightarrow$	<b>0111</b> <sub>2</sub>
816	$\Leftrightarrow$	10002
916	$\Leftrightarrow$	10012
$\mathbf{A}_{\scriptscriptstyle{16}}$	$\Leftrightarrow$	<b>1010</b> <sub>2</sub>
$B_{\scriptscriptstyle 16}$	$\Leftrightarrow$	<b>1011</b> <sub>2</sub>
$C_{\scriptscriptstyle 16}$	$\Leftrightarrow$	<b>1100</b> <sub>2</sub>
$D_{\scriptscriptstyle 16}$	$\Leftrightarrow$	<b>1101</b> <sub>2</sub>
<b>E</b> <sub>16</sub>	$\Leftrightarrow$	<b>1110</b> <sub>2</sub>
<b>F</b> <sub>16</sub>	$\Leftrightarrow$	<b>1111</b> <sub>2</sub>

111010102

111010102

A<sub>16</sub>

EA<sub>16</sub>

## unit 1

e.g.

Map 110101012 to hex.

```
Hexadecimal
                                    Binary
Digit
                                   Nibble
                                   00002
                                   00012
                                   0010<sub>2</sub>
                                   00112
                                   0100<sub>2</sub>
                                   0101<sub>2</sub>
                                   0110<sub>2</sub>
                                   0111<sub>2</sub>
                                    1001<sub>2</sub>
                                   1010<sub>2</sub>
                                   1011<sub>2</sub>
                                   11002
                                   1101<sub>2</sub>
                                   1110<sub>2</sub>
                                   11112
```