

1.1 Number systems

Why hexadecimal is used as a beneficial method of data representation





Why hexadecimal is used in computer science

Command Prompt

Autoconfiguration Enabled : Yes

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . :

Description: Intel(R) Ethernet Connection (2) I219-V

Physical Address.: 18-31-BF-6B-4C-B3

DHCP Enabled.: Yes

Autoconfiguration Enabled : Yes

Link-local IPv6 Address: fe80::2883:180e:7cdf:12e9%10(Preferred)

IPv4 Address.: 192.168.0.75(Preferred)

Subnet Mask: 255.255.255.0

Lease Obtained.: 18 November 2019 17:06:17

Lease Expires: 03 December 2019 03:17:38

Default Gateway: 192.168.0.1

DHCP Server: 192.168.0.1

H: 240 R: 128

S: 127 G: 128

V: 255 B: 255

Add to Custom Colors

Name: -unnamed-

HTML: #8080FF

OK Cancel

Denary	Binary	Hexadecimal
0	0000	0
1	0001	1
2	0010	2
3	0011	3
4	0100	4
5	0101	5
6	0110	6
7	0111	7
8	1000	8
9	1001	9
10	1010	A
11	1011	B
12	1100	C
13	1101	D
14	1110	E
15	1111	F



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```
Command Prompt
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Ethernet adapter Ethernet:

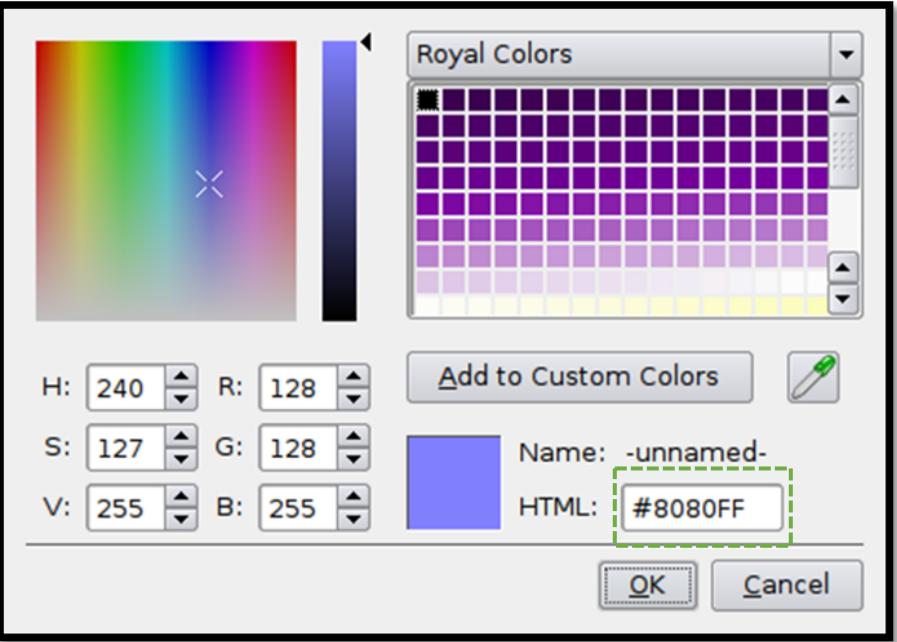
Connection-specific DNS Suffix  . :
Description . . . . . : Intel(R) Ethernet Connection (2) I219-V
Physical Address. . . . . : 18-31-BF-6B-4C-B3
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::2883:180e:7cdf:12e9%10(Preferred)
```

1831BF6B4CB3 in base-16 hexadecimal

=

0001 1000 0011 0001 1011 1111
0110 1011 0100 1100 1011 0011

in base-2 binary



8080FF in base-16 hexadecimal

=

1000 0000 1000 0000 1111 1111

in base-2 binary

