

# Converting Colors

Hex(002020)

Have a look what the booklet for  
Hex(002020) contains.

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# Color

**Hex(002020)**

# Conversions

## Conversions Part 1

Format	Color
Hex	002020
RGB	0, 32, 32
RGB Percent	0%, 13%, 13%
CMY	1.0000, 0.8745, 0.8745
CMYK	1.00, 0.00, 0.00, 0.87
HSL	180°, 100%, 6%
HSV	180°, 100%, 13%
XYZ	0.7772, 1.1373, 1.5451
YIQ	22.4320, -19.0720, -6.7840

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 16, 32
Decimal	8224
CIELab	10.09, -11.64, -3.44
CIElCh	10, 12.137, 196.480
Yxy	1.1373, 0.2247, 0.3287
Android (android.graphics.Color)	4278198304 (0xFF002020)
YUV	22.4320, 4.7170, -19.6729
Hunter-Lab	10.6645, -5.6538, -1.1248

# Details

The Hex color **002020** is a dark color, and the websafe version is hex **003333**. A complement of this color would be **200000**, and the grayscale version is **161616**.

A 20% lighter version of the original color is **2D4C4C**, and **000000** is the 20% darker color. If you saturate the color by 10%, you get **002020**, and if you desaturate by 10%, it is **032020**.

# Distribution



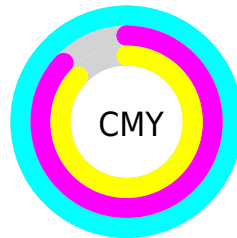
- Red (0%)
- Green (13%)
- Blue (13%)



- Red (0%)
- Yellow (6%)
- Blue (13%)



- Cyan (100%)
- Magenta (0%)
- Yellow (0%)
- Black (87%)



- Cyan (100%)
- Magenta (87%)
- Yellow (87%)

# Brightness & Saturation Gradients

These gradients show how the Hex color 002020 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the Hex color 002020 by changing the saturation by 10% instead.



 002020

 002020

 E2FFFF

 000109

 2D4C4C

 000000

 446464

 5D7D7D

 769796

 90B2B1

 ABCDCD

 C6EAE9

 002020

■ 032020

■ 062020

■ 0A2020

■ 0D2020

■ 102020

■ 132020

■ 162020

■ 1A2020

■ 1D2020

# Harmonies

## Analogous

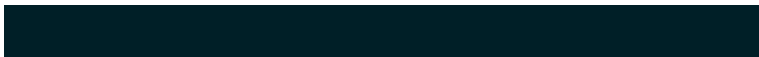
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



082018



002020



001F27

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



002020



221827



251A08

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



002020



200000

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



2A170F



002020



291620

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



002020



171B2B



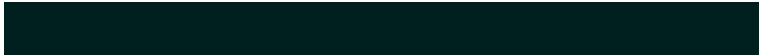
2C1517



1D1D08

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



002020



041E2A



2C1517



27190A



# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



002020



1D2929



002000



0D1414



949494



141414



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



002020



002929



001020



0E0F0F



004F4F



00CFCF



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



200020



290029



201000



0F0E0F



4F004F



CF00CF



# Previews

## White Background



This preview shows how the Hex color 002020 looks on a white background.

## Color Contrast Check

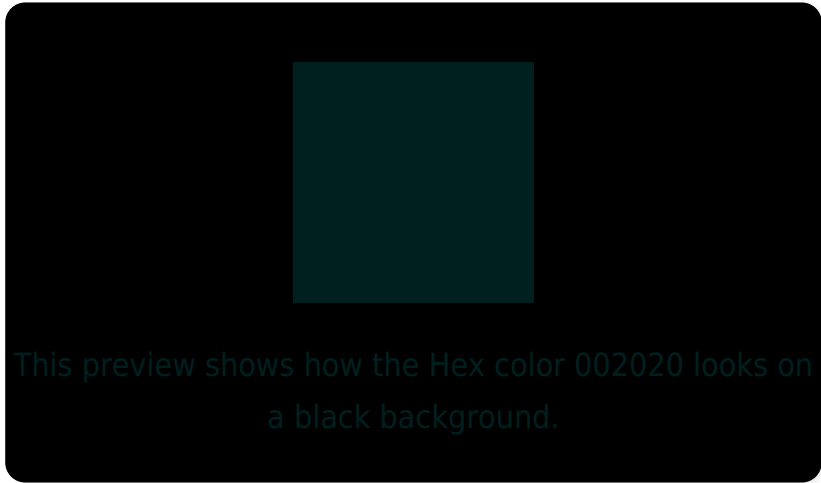
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

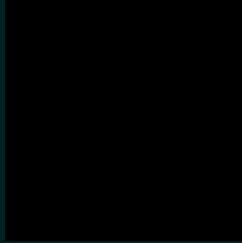
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).



## Hex 002020 Background



This preview shows how black text looks on a background with the Hex color 002020.



This preview shows how white text looks on a background with the Hex color 002020.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



**Original Color**  
002020

**Protanopia**  
1D1C1E

**Deuteranopia**  
1D1C21



# Trichromacy



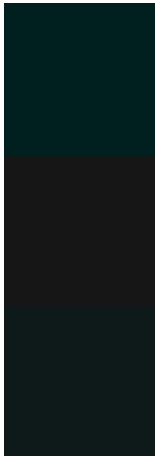
**Original Color**  
002020

**Protanomaly**  
121D1F

**Deuteranomaly**  
121D21

**Tritanomaly**  
042021

# Monochromacy



**Original Color**  
002020

**Achromatopsia**  
161616

**Achromatomaly**  
0E1A1A

# CSS Examples

## Text

The CSS property to change the color of the text to Hex 002020 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color #002020 looks like.

```
.text, #text, p{  
    color:#002020  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel #002020 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #002020
}
```

## Border

The CSS property to change the border of an element to Hex 002020 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid
#002020 }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:#002020 }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel #002020 colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #002020; -webkit-box-shadow:4px 4px  
4px 4px #002020; box-shadow:4px 4px 4px  
4px #002020 }
```

# Background

The CSS property to change the background color of an element to Hex 002020 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#002020 }
```

If only the background color should be changed can be used:

```
.background{ background-color:#002020 }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).



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