

Converting Colors

Hex(FF0000)

Have a look what the booklet for
Hex(FF0000) contains.

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Color

Hex(FF0000)

Conversions

Conversions Part 1

Format	Color
Hex	FF0000
RGB	255, 0, 0
RGB Percent	100%, 0%, 0%
CMY	0.0000, 1.0000, 1.0000
CMYK	0.00, 1.00, 1.00, 0.00
HSL	0°, 100%, 50%
HSV	0°, 100%, 100%
XYZ	41.2400, 21.2600, 1.9300

Conversions

Conversions Part 2

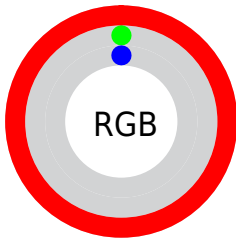
Format	Color
RYB	255, 0, 0
Decimal	16711680
CIELab	53.23, 80.11, 67.22
CIELCh	53, 104.576, 40.000
Yxy	21.2600, 0.6401, 0.3300
Android (android.graphics.Color)	4294901760 (0xFFFF0000)
YUV	76.2450, -37.5888, 156.7681

Details

The Hex color **FF0000** is a dark color, and the **websafe** version is hex **FF0000**, and the color name is **red**. The color can be described as dark saturated red. A complement of this color would be **00FFFF**, and the grayscale version is **4D4D4D**.

A 20% lighter version of the original color is **FF603B**, and **BB0000** is the 20% darker color. If you saturate the color by 10%, you get **FF0000**, and if you desaturate by 10%, it is **FF1919**.

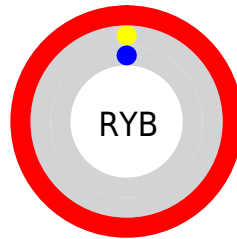
Distribution



Red (100%)

Green (0%)

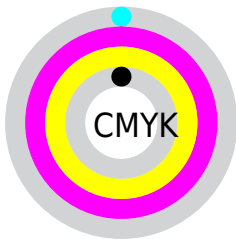
Blue (0%)



Red (100%)

Yellow (0%)

Blue (0%)

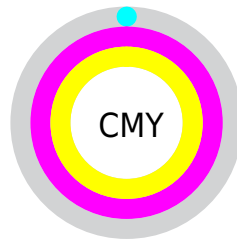


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (100%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the Hex color FF0000 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 FF0000 by changing the saturation by 10% instead.

 FF0000

 FF3E20

 FF603B

 FF8054

 FF9E6E

 FFBD89

 FFD8A4

 FFFABF

 FFFFDC

 FFFFF9

 FF0000

 DD0000

 BB0000

 9A0000

 790001

 5A0004

 3A0002

 120000

 000000

 FF0000

 FF1919

 FF3333

 FF4D4D

 FF6666

 FF8080

 FF9999

 FFB3B3

 FFC5C5

 FFE6E6

Harmonies

Analogous

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



FF0066



FF0000



CA6300

Triad

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



FF0000



009E3B



0083FF

Complementary

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



FF0000



00FFFF

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.



009AFF



FF0000



00A19C

Square

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



FF0000



009700



00A1F3



9D52FF

Rectangle

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



FF0000



9B7C00



00A1F3



008DFF

Sweetspot

The sweet spot groups the original color and five complimentary colors.



FF0000



FFB3B3



FF00FF



805252



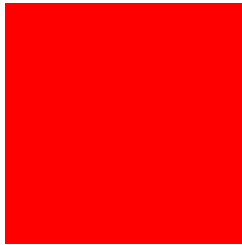
000000



808080

Previews

White Background



This preview shows how the Hex color FF0000 looks on a white background.

Color Contrast Check

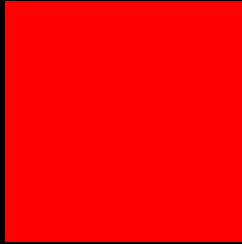
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Hex color FF0000 looks on a black 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 × Fail

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

Hex FF0000 Background



This preview shows how black text looks on a background with the Hex color FF0000.



This preview shows how white text looks on a background with the Hex color FF0000.

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
FF0000




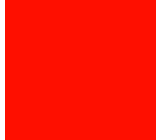
Protanopia
908121

Deuteranopia
A27A00






Tritanopia
FD1800

Trichromacy

	Original Color FF0000
	Protanomaly B85215
	Deuteranomaly C44E00
	Tritanomaly FE0F00

Monochromacy

	Original Color FF0000
	Achromatopsia 4C4C4C
	Achromatomaly 8D3030

CSS Examples

Text

The CSS property to change the color of the text to Hex FF0000 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 #FF0000 looks like.

```
.text, #text, p{  
    color:#FF0000  
}
```


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 #FF0000 colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px #FF0000
}
```

Border

The CSS property to change the border of an element to Hex FF0000 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
#FF0000 }
```

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

```
.border{ border-color:#FF0000 }
```

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

Here you see how a box with a 4 pixel #FF0000 colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px #FF0000; -webkit-box-shadow:4px 4px  
4px 4px #FF0000; box-shadow:4px 4px 4px  
4px #FF0000 }
```

Background

The CSS property to change the background color of an element to Hex FF0000 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background:#FF0000 }
```

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

```
.background{ background-color:#FF0000 }
```

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](#).

Hey! You found this booklet interesting? Have a look at my other booklet **HOWCOLORS.WORK – A CSS color notation guide.**



HOWCOLORS.WORK

A CSS color notation guide.

Are you new to web development and want to know the different ways to express colors in CSS? Then this booklet is for you!

HOWCOLORS.WORK will help you understand the syntax of the color notations in CSS.

You will learn all the current and new ways to express colors to prepare yourself for the future!

[Buy now, starting at \\$4.99!](#)

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