

Converting Colors

`RYB(255, 0, 49)`

Have a look what the booklet for
RYB(255, 0, 49) contains.

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Color

R_YB(255, 0, 49)

Conversions

Conversions Part 1

Format	Color
Hex	FF0031
RGB	255, 0, 49
RGB Percent	100%, 0%, 19%
CMY	0.0000, 1.0000, 0.8078
CMYK	0.00, 1.00, 0.81, 0.00
HSL	348°, 100%, 50%
HSV	348°, 100%, 100%
XYZ	41.7944, 21.4818, 4.8493
YIQ	81.8310, 136.2510, 69.2990

Conversions

Conversions Part 2

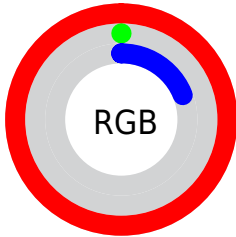
Format	Color
R_{YB}	255, 0, 49
Decimal	16711729
CIE _{Lab}	53.47, 80.76, 48.89
CIE _{LCh}	53, 94.408, 31.187
Yxy	21.4818, 0.6135, 0.3153
Android (android.graphics.Color)	4294901809 (0xFFFF0031)
YUV	81.8310, -16.1857, 151.8692
Hunter-Lab	46.3484, 79.8515, 26.2405

Details

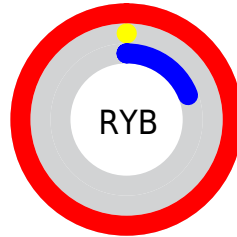
The RYB color **255, 0, 49** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark saturated red. A complement of this color would be **0, 141, 255**, and the grayscale version is **82, 82, 82**.

A 20% lighter version of the original color is **255, 97, 96**, and **188, 0, 5** is the 20% darker color. If you saturate the color by 10%, you get **255, 0, 49**, and if you desaturate by 10%, it is **255, 25, 70**.

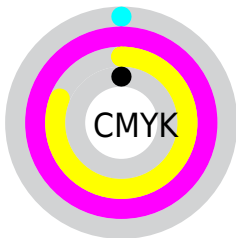
Distribution



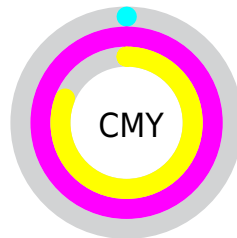
- Red (100%)
- Green (0%)
- Blue (19%)



- Red (100%)
- Yellow (0%)
- Blue (19%)



- Cyan (0%)
- Magenta (100%)
- Yellow (81%)
- Black (0%)



















- Cyan (0%)
- Magenta (100%)
- Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the RYB color 255, 0, 49 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 RYB color 255, 0, 49 by changing the saturation by 10% instead.

 255, 0, 49	 255, 0, 49
255, 255, 255	 221, 0, 27
 255, 97, 96	 188, 0, 5
 255, 130, 121	 155, 0, 0
 255, 161, 147	 122, 0, 1
 255, 194, 174	 91, 0, 4
 255, 229, 202	 59, 0, 3
 235, 255, 230	 21, 0, 0
	 0, 0, 0

 255, 0, 49

 255, 25, 70

 255, 51, 90

 255, 77, 111

 255, 102, 131

 255, 128, 152

 255, 153, 173

 255, 179, 193

 255, 204, 214

 255, 230, 234

Harmonies

Analogous

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



255, 0, 128



255, 0, 49



215, 152, 0

Triad

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



255, 0, 49



0, 125, 156



0, 90, 255

Complementary

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



255, 0, 49



0, 141, 255

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.



0, 96, 255



255, 0, 49



0, 89, 160

Square

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



255, 0, 49



0, 146, 81



0, 91, 211



113, 104, 255

Rectangle

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



255, 0, 49



91, 176, 0



0, 91, 211



0, 93, 255

Sweetspot

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



255, 0, 49



255, 179, 193



204, 0, 255



128, 82, 90



0, 0, 0



128, 128, 128

Same Dimension

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



255, 0, 49



255, 110, 0



128, 115, 117



191, 0, 37



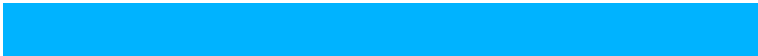
64, 0, 12

Inverse Universe

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



255, 0, 49



0, 105, 255



128, 115, 117



191, 0, 37



64, 0, 12

Previews

White Background



This preview shows how the RYB color 255, 0, 49 looks on a white background.

Color Contrast Check

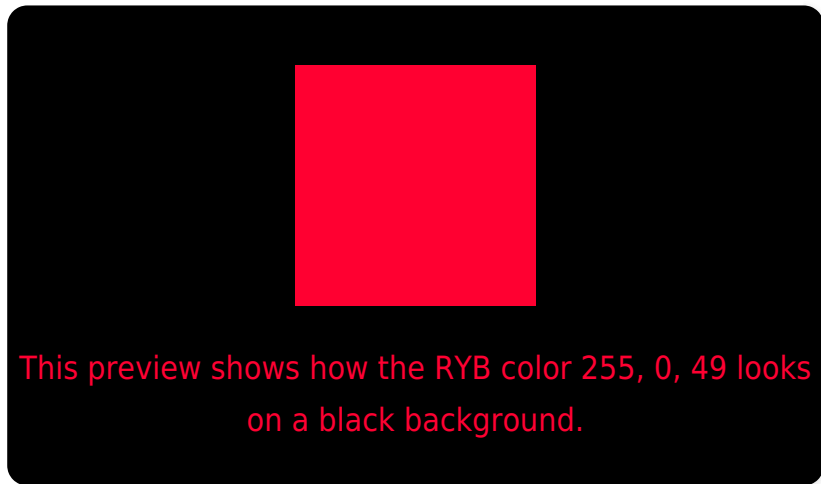
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



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](#).

RYP 255, 0, 49 Background



This preview shows how black text looks on a background with the RYP color 255, 0, 49.



This preview shows how white text looks on a background with the RYP color 255, 0, 49.

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

255, 0, 49

Protanopia

91, 141, 76

Deuteranopia

86, 163, 29



Tritanopia
254, 24, 0

Trichromacy



Original Color

255, 0, 49



Protanomaly

182, 85, 66



Deuteranomaly

196, 93, 36



Tritanomaly

254, 14, 18

Monochromacy



Original Color

255, 0, 49



Achromatopsia

82, 82, 82



Achromatomaly

145, 52, 70

CSS Examples

Text

The CSS property to change the color of the text to RYB 255, 0, 49 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 `rgb(255, 0, 49)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 49)  
}
```

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 rgb(255, 0, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 0, 49) }
```

Border

The CSS property to change the border of an element to RYB 255, 0, 49 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 rgb(255, 0, 49) }
```

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

```
.border{ border-color:rgb(255, 0, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 0, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 0, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 0, 49);  
box-shadow:4px 4px 4px 4px rgb(255, 0, 49)  
}
```

Background

The CSS property to change the background color of an element to RGB 255, 0, 49 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 0, 49) }
```

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

```
.background{ background-color: rgb(255, 0,  
49) }
```

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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