

Converting Colors

`RYB(31, 31, 31)`

Have a look what the booklet for
RYB(31, 31, 31) contains.

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Color

RYB(31, 31, 31)

Conversions

Conversions Part 1

Format	Color
Hex	1F1F1F
RGB	31, 31, 31
RGB Percent	12%, 12%, 12%
CMY	0.8784, 0.8784, 0.8784
CMYK	0.00, 0.00, 0.00, 0.88
HSL	0°, 0%, 12%
HSV	0°, 0%, 12%
XYZ	1.3024, 1.3702, 1.4922
YIQ	31.0000, -0.0000, -0.0000

Conversions

Conversions Part 2

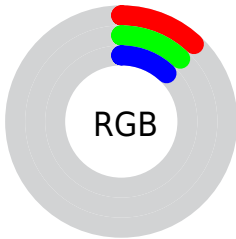
Format	Color
RYB	31, 31, 31
Decimal	2039583
CIELab	11.76, 0.00, -0.00
CIELCh	12, 0.003, 296.813
Yxy	1.3702, 0.3127, 0.3290
Android (android.graphics.Color)	4280229663 (0xFF1F1F1F)
YUV	31.0000, 0.0000, 0.0000
Hunter-Lab	11.7056, -0.6246, 0.6360

Details

The RYB color **31, 31, 31** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **31, 31, 31**, and the grayscale version is **31, 31, 31**.

A 20% lighter version of the original color is **75, 75, 75**, and **0, 0, 0** is the 20% darker color. If you saturate the color by 10%, you get **31, 28, 28**, and if you desaturate by 10%, it is **31, 33, 34**.

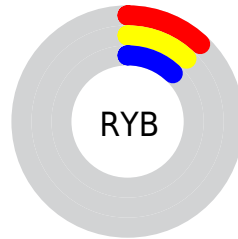
Distribution



Red (12%)

Green (12%)

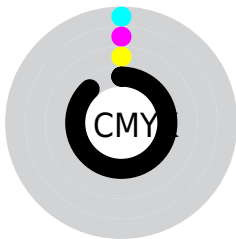
Blue (12%)



Red (12%)

Yellow (12%)

Blue (12%)

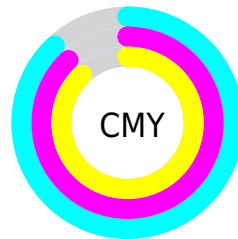


Cyan (0%)

Magenta (0%)

Yellow (0%)

Black (88%)



Cyan (88%)

Magenta (88%)

Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the RYB color 31, 31, 31 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 31, 31, 31 by changing the saturation by 10% instead.



31, 31, 31



31, 31, 31

255, 255, 255



6, 6, 6



75, 75, 75



0, 0, 0



98, 98, 98



123, 123, 123



149, 149, 149



176, 176, 176



203, 203, 203



231, 231, 231



31, 31, 31



31, 31, 31

■ 31, 28, 28

■ 31, 33, 34

■ 31, 25, 25

■ 31, 34, 37

■ 31, 22, 22

■ 31, 36, 40

■ 31, 19, 19

■ 31, 37, 43

■ 31, 16, 16

■ 31, 39, 47

■ 31, 12, 12

■ 31, 41, 50

■ 31, 9, 9

■ 31, 42, 53

■ 31, 6, 6

■ 31, 44, 56

■ 31, 3, 3

■ 31, 45, 59

Harmonies

Sweetspot

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



31, 31, 31



41, 41, 41



20, 20, 20



148, 148, 148

Same Dimension

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



31, 31, 31



41, 41, 41



15, 15, 15



79, 0, 0



207, 0, 0

Inverse Universe

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



31, 31, 31



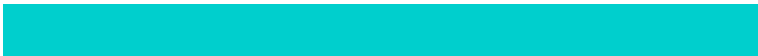
41, 41, 41



15, 15, 15



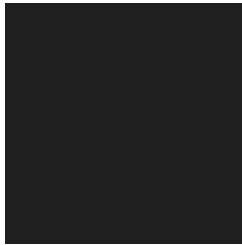
0, 40, 79



0, 104, 207

Previews

White Background



This preview shows how the RYB color 31, 31, 31 looks on a white background.

Color Contrast Check

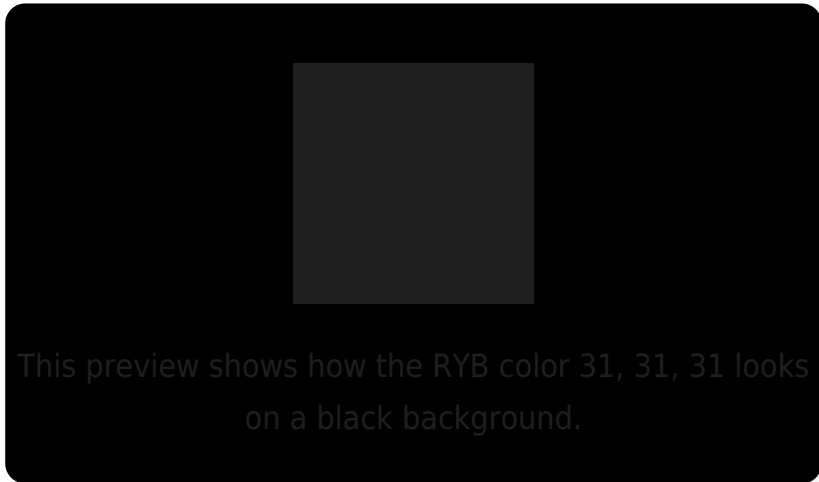
Large Text (above 18pt) WCAG AA ✓ Pass

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

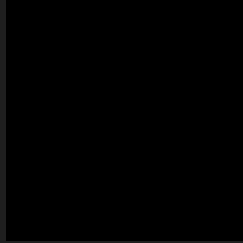
Any Text WCAG AA × Fail

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](#).

R_YB 31, 31, 31 Background



This preview shows how black text looks on a background with the R_YB color 31, 31, 31.

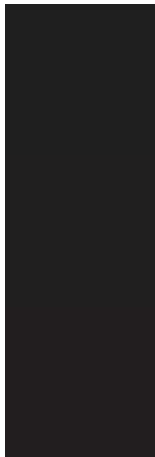


This preview shows how white text looks on a background with the R_YB color 31, 31, 31.

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

31, 31, 31

Protanopia

32, 31, 31

Deuteranopia

34, 30, 31



Tritanopia
31, 31, 33

Trichromacy



Original Color

31, 31, 31

Protanomaly

32, 31, 31

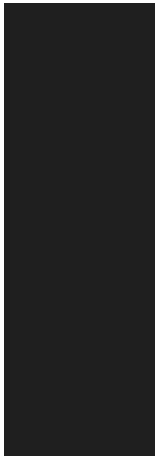
Deuteranomaly

33, 30, 31

Tritanomaly

31, 31, 32

Monochromacy



Original Color

31, 31, 31

Achromatopsia

31, 31, 31

Achromatomaly

31, 31, 31

CSS Examples

Text

The CSS property to change the color of the text to RYB 31, 31, 31 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(31, 31, 31)` looks like.

```
.text, #text, p{  
    color:rgb(31, 31, 31)  
}
```

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(31, 31, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 31, 31) }
```

Border

The CSS property to change the border of an element to RYB 31, 31, 31 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(31, 31, 31) }
```

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

```
.border{ border-color:rgb(31, 31, 31) }
```

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

Here you see how a box with a 4 pixel `rgb(31, 31, 31)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 31, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 31, 31);  
box-shadow:4px 4px 4px 4px rgb(31, 31, 31)  
}
```

Background

The CSS property to change the background color of an element to RYB 31, 31, 31 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 31, 31) }
```

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

```
.background{ background-color: rgb(31, 31,  
31) }
```

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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