

Converting Colors

`RYB(13, 13, 13)`

Have a look what the booklet for
RYB(13, 13, 13) contains.

RYB(13, 13, 13)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	13
<i>Color Blindness Simulation</i>	16
<i>CSS Examples</i>	19

Color

RYB(13, 13, 13)

Conversions

Conversions Part 1

Format	Color
Hex	0D0D0D
RGB	13, 13, 13
RGB Percent	5%, 5%, 5%
CMY	0.9490, 0.9490, 0.9490
CMYK	0.00, 0.00, 0.00, 0.95
HSL	0°, 0%, 5%
HSV	0°, 0%, 5%
XYZ	0.3825, 0.4025, 0.4383

Conversions

Conversions Part 2

Format	Color
R _Y B	13, 13, 13
Decimal	855309
CIE Lab	3.64, 0.00, -0.00
CIE LCh	4, 0.001, 296.812
Yxy	0.4025, 0.3127, 0.3290
Android (android.graphics.Color)	4279045389 (0xFF0D0D0D)
YUV	13.0000, 0.0000, 0.0000

Details

The RYB color **13, 13, 13** is a dark color, and the **websafe** version is hex **000000**. A complement of this color would be **13, 13, 13**, and the grayscale version is **13, 13, 13**.

A 20% lighter version of the original color is **56, 56, 56**, and **0, 0, 0** is the 20% darker color. If you saturate the color by 10%, you get **13, 12, 12**, and if you desaturate by 10%, it is **13, 14, 14**.

Distribution



 Red (5%)

 Green (5%)

 Blue (5%)



 Red (5%)

 Yellow (5%)

 Blue (5%)



 Cyan (0%)

 Magenta (0%)

 Yellow (0%)

 Black (95%)



 Cyan (95%)

 Magenta (95%)

 Yellow (95%)

Brightness & Saturation Gradients

These gradients show how the RYB color 13, 13, 13 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 13, 13, 13 by changing the saturation by 10% instead.

■ 13, 13, 13

■ 35, 35, 35

■ 56, 56, 56

■ 79, 79, 79

■ 103, 103, 103

■ 128, 128, 128

■ 154, 154, 154

■ 181, 181, 181

■ 208, 208, 208

■ 237, 237, 237

■ 13, 13, 13

■ 0, 0, 0

■ 13, 13, 13

■ 13, 12, 12

■ 13, 10, 10

■ 13, 9, 9

■ 13, 8, 8

■ 13, 7, 7

■ 13, 13, 13

■ 13, 14, 14

■ 13, 15, 16

■ 13, 15, 17

■ 13, 16, 18

■ 13, 17, 20

■ 13, 5, 5

■ 13, 17, 21

■ 13, 4, 4

■ 13, 18, 22

■ 13, 3, 3

■ 13, 18, 23

■ 13, 1, 1

■ 13, 19, 25

Harmonies

Sweetspot

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



13, 13, 13



18, 18, 18



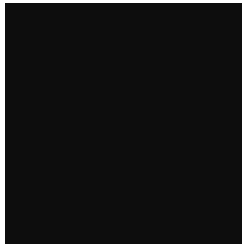
10, 10, 10



138, 138, 138

Previews

White Background



This preview shows how the RYB color 13, 13, 13 looks on a white background.

Color Contrast Check

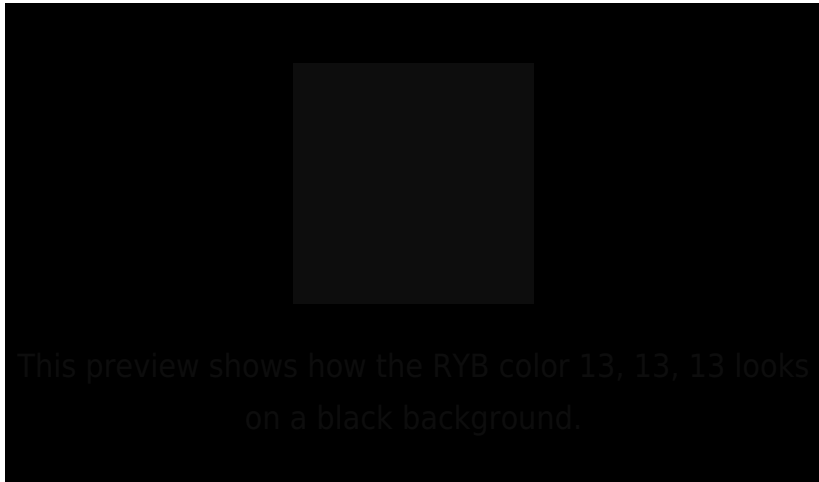
Large Text (above 18pt) WCAG AA ✓ Pass

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

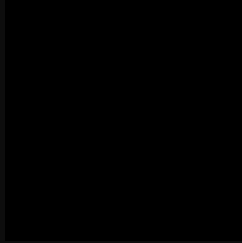
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

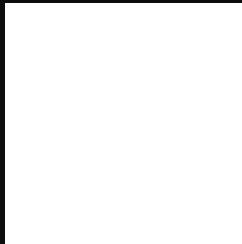
Any Text WCAG AAA × Fail

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

RYB 13, 13, 13 Background



This preview shows how black text looks on a background with the RYB color 13, 13, 13.

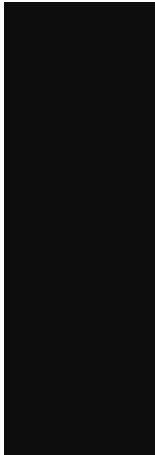


This preview shows how white text looks on a background with the RYB color 13, 13, 13.

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

13, 13, 13

Protanopia

13, 13, 13

Deuteranopia

14, 13, 13



Tritanopia
13, 13, 14

Trichromacy



Original Color

13, 13, 13

Protanomaly

13, 13, 13

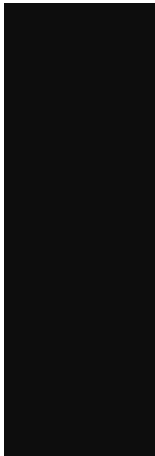
Deuteranomaly

14, 13, 13

Tritanomaly

13, 13, 14

Monochromacy



Original Color

13, 13, 13

Achromatopsia

13, 13, 13

Achromatomaly

13, 13, 13

CSS Examples

Text

The CSS property to change the color of the text to RYB 13, 13, 13 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(13, 13, 13)` looks like.

```
.text, #text, p{  
    color:rgb(13, 13, 13)  
}
```

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(13, 13, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(13, 13, 13) }
```

Border

The CSS property to change the border of an element to RYB 13, 13, 13 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(13, 13, 13) }
```

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

```
.border{ border-color:rgb(13, 13, 13) }
```

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

Here you see how a box with a 4 pixel `rgb(13, 13, 13)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(13, 13, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(13, 13, 13);  
box-shadow:4px 4px 4px 4px rgb(13, 13, 13)  
}
```

Background

The CSS property to change the background color of an element to RGB 13, 13, 13 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(13, 13, 13) }
```

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

```
.background{ background-color: rgb(13, 13,  
13) }
```

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!](#)

**Follow me
on Twitter!**

@ConvertingColor