

Converting Colors

`RYB(33, 33, 33)`

Have a look what the booklet for
RYB(33, 33, 33) contains.

RYB(33, 33, 33)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	15
<i>Color Blindness Simulation</i>	18
<i>CSS Examples</i>	21

Color

RYB(33, 33, 33)

Conversions

Conversions Part 1

Format	Color
Hex	212121
RGB	33, 33, 33
RGB Percent	13%, 13%, 13%
CMY	0.8706, 0.8706, 0.8706
CMYK	0.00, 0.00, 0.00, 0.87
HSL	0°, 0%, 13%
HSV	0°, 0%, 13%
XYZ	1.4456, 1.5209, 1.6562
YIQ	33.0000, -0.0000, -0.0000

Conversions

Conversions Part 2

Format	Color
R_{YB}	33, 33, 33
Decimal	2171169
CIE Lab	12.74, 0.00, -0.00
CIE LCh	13, 0.003, 296.813
Yxy	1.5209, 0.3127, 0.3290
Android (android.graphics.Color)	4280361249 (0xFF212121)
YUV	33.0000, 0.0000, 0.0000
Hunter-Lab	12.3323, -0.6580, 0.6700

Details

The RYB color **33, 33, 33** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **33, 33, 33**, and the grayscale version is **33, 33, 33**.

A 20% lighter version of the original color is **77, 77, 77**, and **0, 0, 0** is the 20% darker color. If you saturate the color by 10%, you get **33, 30, 30**, and if you desaturate by 10%, it is **33, 35, 36**.

Distribution



Red (13%)

Green (13%)

Blue (13%)



Red (13%)

Yellow (13%)

Blue (13%)



Cyan (0%)

Magenta (0%)

Yellow (0%)

Black (87%)



Cyan (87%)

Magenta (87%)

Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the RYB color 33, 33, 33 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 33, 33, 33 by changing the saturation by 10% instead.



33, 33, 33



33, 33, 33

255, 255, 255



10, 10, 10



77, 77, 77



0, 0, 0



101, 101, 101



126, 126, 126



152, 152, 152



178, 178, 178



206, 206, 206



234, 234, 234



33, 33, 33



33, 33, 33

■ 33, 30, 30

■ 33, 35, 36

■ 33, 26, 26

■ 33, 37, 40

■ 33, 23, 23

■ 33, 38, 43

■ 33, 20, 20

■ 33, 40, 46

■ 33, 17, 17

■ 33, 42, 50

■ 33, 13, 13

■ 33, 43, 53

■ 33, 10, 10

■ 33, 45, 56

■ 33, 7, 7

■ 33, 46, 59

■ 33, 3, 3

■ 33, 48, 63

Harmonies

Sweetspot

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



33, 33, 33



43, 43, 43



23, 23, 23



150, 150, 150

Same Dimension

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



33, 33, 33



43, 43, 43



15, 15, 15



79, 0, 0



207, 0, 0

Inverse Universe

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



33, 33, 33



43, 43, 43



15, 15, 15



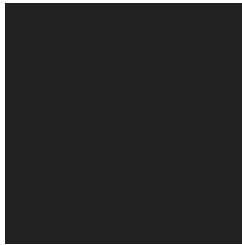
0, 40, 79



0, 104, 207

Previews

White Background



This preview shows how the RYB color 33, 33, 33 looks on a white background.

Color Contrast Check

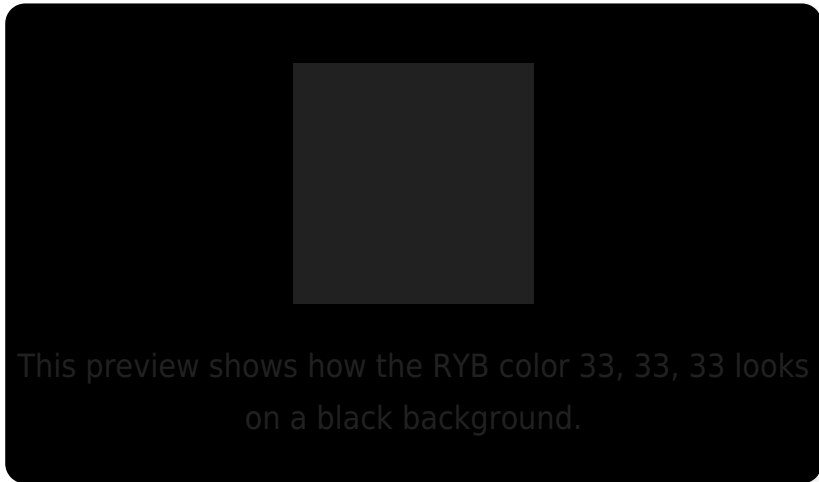
Large Text (above 18pt) WCAG AA ✓ Pass

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

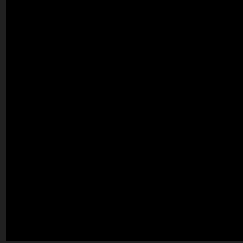
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

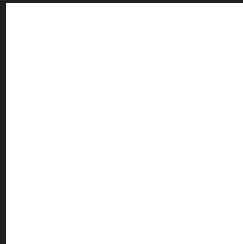
Any Text WCAG AAA × Fail

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

RYB 33, 33, 33 Background



This preview shows how black text looks on a background with the RYB color 33, 33, 33.

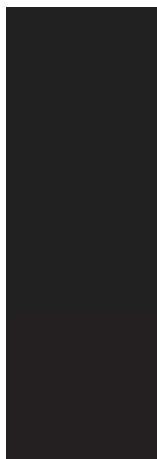


This preview shows how white text looks on a background with the RYB color 33, 33, 33.

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

33, 33, 33

Protanopia

34, 33, 33

Deuteranopia

36, 32, 33



Tritanopia
33, 33, 35

Trichromacy



Original Color

33, 33, 33

Protanomaly

34, 33, 33

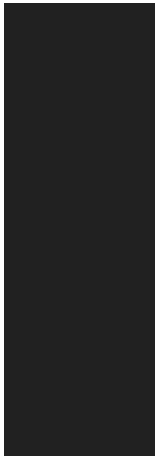
Deuteranomaly

35, 32, 33

Tritanomaly

33, 33, 34

Monochromacy



Original Color

33, 33, 33

Achromatopsia

33, 33, 33

Achromatomaly

33, 33, 33

CSS Examples

Text

The CSS property to change the color of the text to RYB 33, 33, 33 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(33, 33, 33)` looks like.

```
.text, #text, p{  
    color:rgb(33, 33, 33)  
}
```

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(33, 33, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 33, 33) }
```

Border

The CSS property to change the border of an element to RYB 33, 33, 33 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(33, 33, 33) }
```

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

```
.border{ border-color:rgb(33, 33, 33) }
```

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

Here you see how a box with a 4 pixel rgb(33, 33, 33) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 33, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 33, 33);  
box-shadow:4px 4px 4px 4px rgb(33, 33, 33)  
}
```

Background

The CSS property to change the background color of an element to RYB 33, 33, 33 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 33, 33) }
```

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

```
.background{ background-color: rgb(33, 33,  
33) }
```

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? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor