

Converting Colors

`RYB(31, 31, 153)`

Have a look what the booklet for
RYB(31, 31, 153) contains.

RYB(31, 31, 153)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	23
<i>Color Blindness Simulation</i>	26
<i>CSS Examples</i>	29

Color

R_YB(31, 31, 153)

Conversions

Conversions Part 1

Format	Color
Hex	1F1F99
RGB	31, 31, 153
RGB Percent	12%, 12%, 60%
CMY	0.8784, 0.8784, 0.4000
CMYK	0.80, 0.80, 0.00, 0.40
HSL	240°, 66%, 36%
HSV	240°, 80%, 60%
XYZ	6.8048, 3.5712, 30.4676
YIQ	44.9080, -39.1620, 37.9420

Conversions

Conversions Part 2

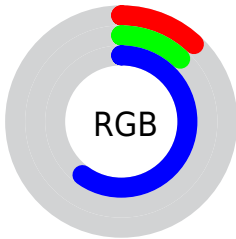
Format	Color
R_{YB}	31, 31, 153
Decimal	2039705
CIE _{Lab}	22.20, 42.96, -64.95
CIE _{LCh}	22, 77.876, 303.482
Yxy	3.5712, 0.1666, 0.0874
Android (android.graphics.Color)	4280229785 (0xFF1F1F99)
YUV	44.9080, 53.2894, -12.1973
Hunter-Lab	18.8976, 31.2053, -82.3620

Details

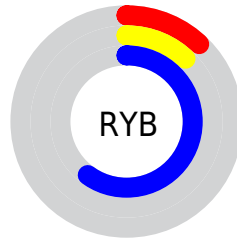
The RYB color **31, 31, 153** is a dark color, and the websafe version is hex **330099**. A complement of this color would be **31, 153, 31**, and the grayscale version is **44, 44, 44**.

A 20% lighter version of the original color is **99, 78, 209**, and **0, 0, 101** is the 20% darker color. If you saturate the color by 10%, you get **16, 16, 153**, and if you desaturate by 10%, it is **46, 46, 153**.

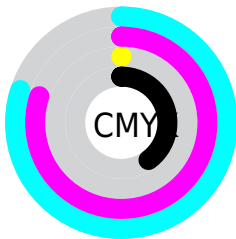
Distribution



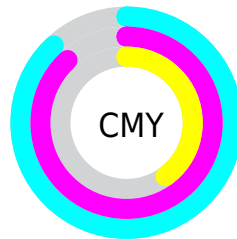
- Red (12%)
- Green (12%)
- Blue (60%)



- Red (12%)
- Yellow (12%)
- Blue (60%)



- Cyan (80%)
- Magenta (80%)
- Yellow (0%)
- Black (40%)



- Cyan (88%)
- Magenta (88%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the RYB color 31, 31, 153 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, 153 by changing the saturation by 10% instead.



31, 31, 153



31, 31, 153

255, 255, 255



0, 8, 126



99, 78, 209



0, 0, 101



128, 102, 237



0, 2, 75



158, 128, 255



0, 4, 52



187, 154, 255



0, 2, 30



217, 181, 255



0, 0, 0



247, 209, 255



255, 238, 255



31, 31, 153



31, 31, 153

■ 16, 16, 153

■ 46, 46, 153

■ 0, 0, 153

■ 62, 62, 153

■ 77, 77, 153

■ 92, 92, 153

■ 107, 107, 153

■ 123, 123, 153

■ 138, 138, 153

■ 153, 153, 153

■ 153, 169, 153

Harmonies

Analogous

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



0, 46, 174



31, 31, 153



122, 0, 106

Triad

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



31, 31, 153



105, 29, 0



0, 40, 72

Complementary

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



31, 31, 153



31, 153, 31

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, 70, 70



31, 31, 153



7, 60, 0

Square

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



31, 31, 153



135, 0, 0



0, 66, 66



0, 45, 117

Rectangle

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



31, 31, 153



141, 0, 69



0, 66, 66



0, 46, 71

Sweetspot

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



31, 31, 153



151, 151, 199



31, 92, 153



71, 71, 99



227, 227, 227



99, 99, 99

Same Dimension

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



31, 31, 153



8, 8, 199



92, 31, 153



69, 69, 77



0, 0, 140



0, 0, 13

Inverse Universe

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



153, 31, 153



199, 8, 199



31, 153, 92



77, 69, 77



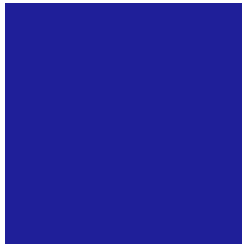
140, 0, 140



13, 0, 13

Previews

White Background



This preview shows how the RYB color 31, 31, 153 looks on a white background.

Color Contrast Check

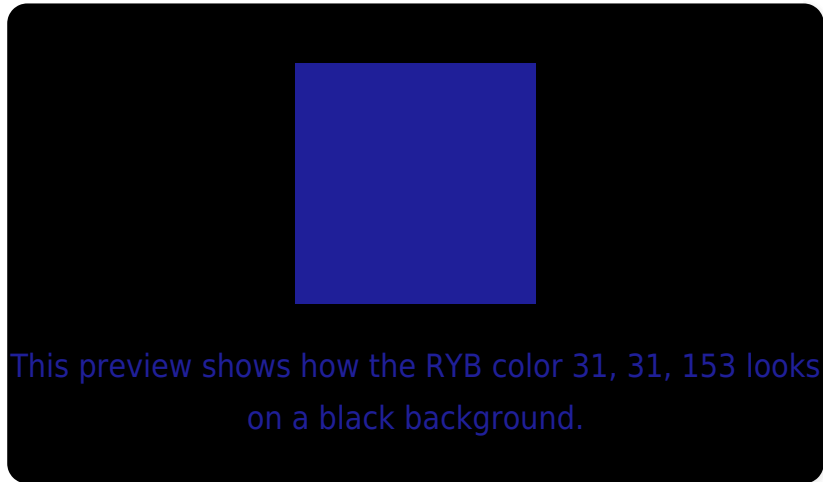
Large Text (above 18pt) WCAG AA ✓ Pass

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

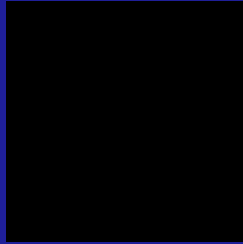
Any Text WCAG AA × Fail

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 31, 31, 153 Background



This preview shows how black text looks on a background with the RYB color 31, 31, 153.



This preview shows how white text looks on a background with the RYB color 31, 31, 153.

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, 153

Protanopia

0, 35, 109

Deuteranopia

0, 35, 93



Tritanopia
0, 31, 63

Trichromacy



Original Color

31, 31, 153

Protanomaly

11, 37, 125

Deuteranomaly

11, 37, 115

Tritanomaly

11, 37, 96

Monochromacy



Original Color

31, 31, 153

Achromatopsia

45, 45, 45

Achromatomaly

40, 40, 84

CSS Examples

Text

The CSS property to change the color of the text to RYB 31, 31, 153 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, 153)` looks like.

```
.text, #text, p{  
    color:rgb(31, 31, 153)  
}
```

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, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 31, 153) }
```

Border

The CSS property to change the border of an element to RYB 31, 31, 153 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, 153) }
```

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

```
.border{ border-color:rgb(31, 31, 153) }
```

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, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 31, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 31, 153);  
box-shadow:4px 4px 4px 4px rgb(31, 31,  
153) }
```

Background

The CSS property to change the background color of an element to RYB 31, 31, 153 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, 153) }
```

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

```
.background{ background-color: rgb(31, 31,  
153) }
```

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