

Converting Colors

`RYB(31, 88, 162)`

Have a look what the booklet for
RYB(31, 88, 162) contains.

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Color

R_YB(31, 88, 162)

Conversions

Conversions Part 1

Format	Color
Hex	1F84A2
RGB	31, 132, 162
RGB Percent	12%, 52%, 64%
CMY	0.8784, 0.4827, 0.3647
CMYK	0.81, 0.19, 0.00, 0.36
HSL	194°, 68%, 38%
HSV	194°, 81%, 64%
XYZ	15.3251, 19.3768, 37.1148
YIQ	105.2210, -69.8260, -12.0820

Conversions

Conversions Part 2

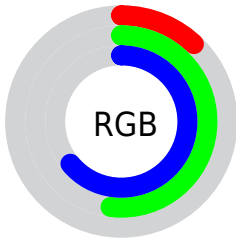
Format	Color
R_{YB}	31, 88, 162
Decimal	2065570
CIE _{Lab}	51.13, -17.19, -23.98
CIE _{LCh}	51, 29.504, 234.356
Yxy	19.3768, 0.2134, 0.2698
Android (android.graphics.Color)	4280255650 (0xFF1F84A2)
YUV	105.2210, 27.9920, -65.0918
Hunter-Lab	44.0191, -14.8893, -19.1771

Details

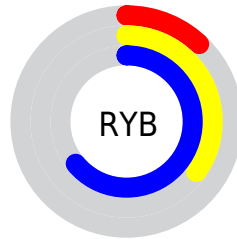
The RYB color **31, 88, 162** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **162, 70, 31**, and the grayscale version is **105, 105, 105**.

A 20% lighter version of the original color is **99, 149, 217**, and **0, 47, 110** is the 20% darker color. If you saturate the color by 10%, you get **15, 79, 162**, and if you desaturate by 10%, it is **47, 97, 162**.

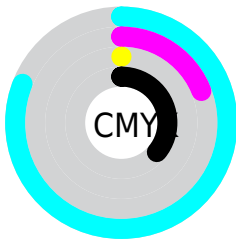
Distribution



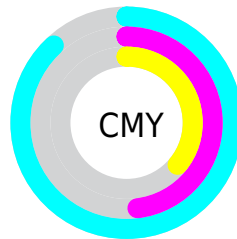
- Red (12%)
- Green (52%)
- Blue (64%)



- Red (12%)
- Yellow (35%)
- Blue (64%)



- Cyan (81%)
- Magenta (19%)
- Yellow (0%)
- Black (36%)



- Cyan (88%)
- Magenta (48%)
- Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the RYB color 31, 88, 162 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, 88, 162 by changing the saturation by 10% instead.



31, 88, 162



31, 88, 162

255, 255, 255



0, 60, 136



99, 149, 217



0, 47, 110



128, 177, 245



0, 35, 86



157, 202, 255



0, 23, 62



186, 221, 255



0, 9, 41



216, 236, 255



0, 1, 19



246, 251, 255



0, 0, 0



31, 88, 162



31, 88, 162



15, 79, 162



47, 97, 162

■ 0, 71, 162

■ 63, 106, 162

■ 80, 116, 162

■ 96, 125, 162

■ 112, 134, 162

■ 128, 143, 162

■ 144, 152, 162

■ 161, 162, 162

■ 177, 166, 162

Harmonies

Analogous

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



17, 78, 142



31, 88, 162



77, 109, 171

Triad

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



31, 88, 162



167, 103, 128



75, 127, 85

Complementary

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



31, 88, 162



162, 70, 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.



107, 143, 71



31, 88, 162



171, 103, 102

Square

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



31, 88, 162



149, 108, 151



162, 125, 82



88, 128, 132

Rectangle

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



31, 88, 162



105, 117, 170



162, 125, 82



74, 126, 72

Sweetspot

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



31, 88, 162



161, 183, 212



31, 139, 162



76, 90, 107



235, 235, 235



107, 107, 107

Same Dimension

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



31, 88, 162



6, 95, 212



31, 60, 162



73, 77, 82



0, 63, 145



0, 8, 18

Inverse Universe

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



162, 31, 132



212, 6, 164



83, 162, 31



82, 73, 80



145, 0, 112



18, 0, 14

Previews

White Background



This preview shows how the RYB color 31, 88, 162 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



This preview shows how the RYB color 31, 88, 162 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

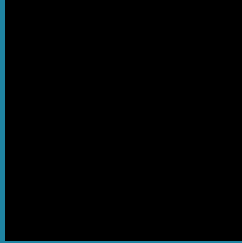
Any Text WCAG AA ✓ Pass

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](#).

R Y B 31, 88, 162 Background



This preview shows how black text looks on a background with the R Y B color 31, 88, 162.

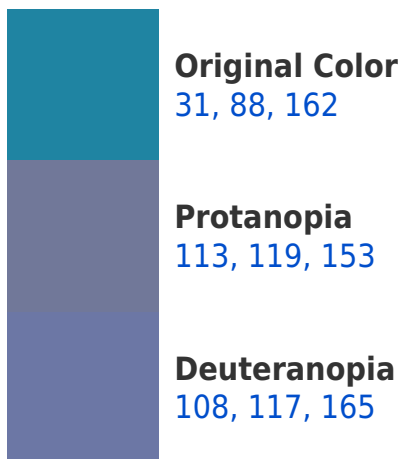


This preview shows how white text looks on a background with the R Y B color 31, 88, 162.

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





Tritanopia
0, 70, 146

Trichromacy



Original Color
31, 88, 162

Protanomaly
83, 109, 156

Deuteranomaly
80, 109, 164

Tritanomaly
11, 77, 152

Monochromacy



Original Color
31, 88, 162

Achromatopsia
105, 105, 105

Achromatomaly
78, 99, 126

CSS Examples

Text

The CSS property to change the color of the text to RYB 31, 88, 162 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, 132, 162)` looks like.

```
.text, #text, p{  
    color:rgb(31, 132, 162)  
}
```

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, 132, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 132, 162) }
```

Border

The CSS property to change the border of an element to RYB 31, 88, 162 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, 132, 162) }
```

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

```
.border{ border-color:rgb(31, 132, 162) }
```

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

Here you see how a box with a 4 pixel `rgb(31, 132, 162)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 132, 162); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 132, 162);  
box-shadow:4px 4px 4px 4px rgb(31, 132,  
162) }
```

Background

The CSS property to change the background color of an element to RYB 31, 88, 162 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 132, 162) }
```

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

```
.background{ background-color: rgb(31, 132,  
162) }
```

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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