

Converting Colors

`RYB(231, 166, 51)`

Have a look what the booklet for
RYB(231, 166, 51) contains.

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Color

`RYB(231, 166, 51)`

Conversions

Conversions Part 1

Format	Color
Hex	E77933
RGB	231, 121, 51
RGB Percent	91%, 47%, 20%
CMY	0.0941, 0.5248, 0.8000
CMYK	0.00, 0.48, 0.78, 0.09
HSL	23°, 79%, 55%
HSV	23°, 78%, 91%
XYZ	40.4105, 30.9439, 6.9749
YIQ	145.9100, 88.0300, 1.5500

Conversions

Conversions Part 2

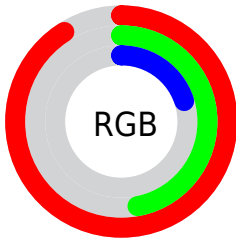
Format	Color
R _Y B	231, 166, 51
Decimal	15169843
CIE Lab	62.46, 37.78, 55.25
CIE LCh	62, 66.934, 55.636
Yxy	30.9439, 0.5159, 0.3950
Android (android.graphics.Color)	4293359923 (0xFFE77933)
YUV	145.9100, -46.7906, 74.6239
Hunter-Lab	55.6273, 32.3240, 31.5050

Details

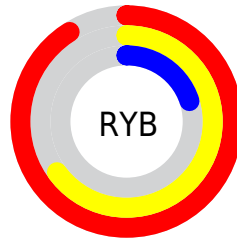
The RYB color **231, 166, 51** is a dark color, and the websafe version is hex **CC6600**. The color can be described as middle washed orange. A complement of this color would be **51, 119, 231**, and the grayscale version is **146, 146, 146**.

A 20% lighter version of the original color is **255, 242, 102**, and **169, 119, 0** is the 20% darker color. If you saturate the color by 10%, you get **231, 157, 28**, and if you desaturate by 10%, it is **231, 174, 74**.

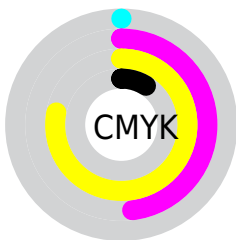
Distribution



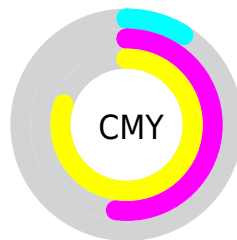
- Red (91%)
- Green (47%)
- Blue (20%)



- Red (91%)
- Yellow (65%)
- Blue (20%)



- Cyan (0%)
- Magenta (48%)
- Yellow (78%)
- Black (9%)




















- Cyan (9%)
- Magenta (52%)
- Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the RYB color 231, 166, 51 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 231, 166, 51 by changing the saturation by 10% instead.

 231, 166, 51	 231, 166, 51
 255, 255, 255	 200, 143, 24
 255, 242, 102	 169, 119, 0
 216, 255, 128	 139, 67, 0
 187, 255, 155	 109, 22, 0
 183, 255, 183	 79, 0, 0
 211, 255, 211	 53, 0, 0
 240, 255, 240	 13, 0, 0
	 0, 0, 0

 231, 166, 51  231, 166, 51

■ 231, 157, 28

■ 231, 174, 74

■ 231, 149, 5

■ 231, 182, 97

■ 231, 147, 0

■ 231, 190, 120

■ 231, 201, 143

■ 231, 208, 167

■ 231, 216, 190

■ 231, 224, 213

■ 231, 233, 236

■ 231, 241, 255

Harmonies

Analogous

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



255, 98, 103



231, 166, 51



55, 187, 1

Triad

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



231, 166, 51



0, 100, 178



133, 139, 255

Complementary

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



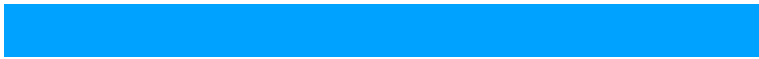
231, 166, 51



51, 119, 231

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, 99, 255



231, 166, 51



0, 94, 201

Square

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



231, 166, 51



38, 141, 173



0, 102, 249



214, 112, 219

Rectangle

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



231, 166, 51



6, 158, 13



0, 102, 249



88, 132, 255

Sweetspot

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



231, 166, 51



255, 234, 196



231, 51, 162



128, 115, 92



0, 0, 0



128, 128, 128

Same Dimension

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



231, 166, 51



255, 170, 15



75, 231, 51



115, 112, 103



179, 115, 0



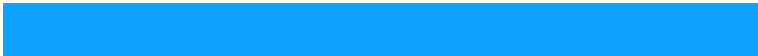
51, 33, 0

Inverse Universe

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



51, 119, 231



15, 106, 255



51, 70, 231



103, 107, 115



0, 68, 179



0, 19, 51

Previews

White Background



This preview shows how the RYB color 231, 166, 51 looks on a white 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

Black Background



This preview shows how the RYB color 231, 166, 51 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 ✓ Pass

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

RYB 231, 166, 51 Background



This preview shows how black text looks on a background with the RYB color 231, 166, 51.



This preview shows how white text looks on a background with the RYB color 231, 166, 51.

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
231, 166, 51

Protanopia
79, 169, 59

Deuteranopia
111, 190, 44



Tritanopia
234, 114, 122

Trichromacy



Original Color
231, 166, 51

Protanomaly
138, 192, 56

Deuteranomaly
169, 205, 47

Tritanomaly
233, 121, 96

Monochromacy



Original Color
231, 166, 51

Achromatopsia
146, 146, 146

Achromatomaly
177, 154, 111

CSS Examples

Text

The CSS property to change the color of the text to RYB 231, 166, 51 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(231, 121, 51)` looks like.

```
.text, #text, p{  
    color:rgb(231, 121, 51)  
}
```

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(231, 121, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 121, 51) }
```

Border

The CSS property to change the border of an element to RYB 231, 166, 51 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(231, 121, 51) }
```

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

```
.border{ border-color:rgb(231, 121, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 121, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 121, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 121, 51);  
box-shadow:4px 4px 4px 4px rgb(231, 121,  
51) }
```

Background

The CSS property to change the background color of an element to RGB 231, 121, 51 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 121, 51) }
```

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

```
.background{ background-color: rgb(231,  
121, 51) }
```

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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