

# Converting Colors

$Y_{xy}(12.8660, 0.6005, 0.3433)$

Have a look what the booklet for  
Yxy(12.8660, 0.6005, 0.3433)  
contains.

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**Color**

**Yxy(12.8660, 0.6005, 0.3433)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BF2B17
RGB	191, 43, 23
RGB Percent	75%, 17%, 9%
CMY	0.2510, 0.8314, 0.9099
CMYK	0.00, 0.77, 0.88, 0.25
HSL	7°, 79%, 42%
HSV	7°, 88%, 75%
XYZ	22.5052, 12.8660, 2.1062
YIQ	84.9720, 94.6280, 25.1560

# Conversions

## Conversions Part 2

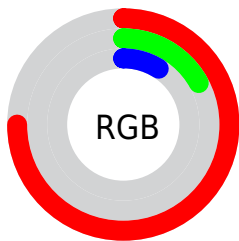
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	191, 46, 23
Decimal	12528407
CIE Lab	42.56, 56.91, 47.28
CIE LCh	43, 73.987, 39.718
Yxy	12.8660, 0.6005, 0.3433
Android (android.graphics.Color)	4290718487 (0xFFBF2B17)
YUV	84.9720, -30.5522, 92.9866
Hunter-Lab	35.8692, 49.2240, 21.6270

# Details

The Yxy color **12.8660, 0.6005, 0.3433** is a dark color, and the websafe version is hex **CC3333**. A complement of this color would be **33.0585, 0.2176, 0.2958**, and the grayscale version is **9.1284, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.0096, 0.5383, 0.3552**, and **4.5892, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **11.8323, 0.6260, 0.3385**, and if you desaturate by 10%, it is **14.4583, 0.5636, 0.3466**.

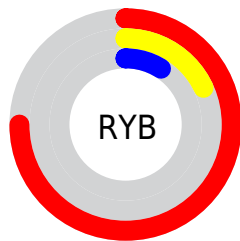
# Distribution



Red (75%)

Green (17%)

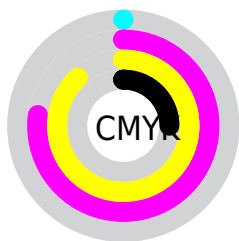
Blue (9%)



Red (75%)

Yellow (18%)

Blue (9%)

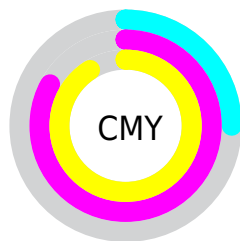


Cyan (0%)

Magenta (77%)

Yellow (88%)

Black (25%)



Cyan (25%)

Magenta (83%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 12.8660, 0.6005, 0.3433 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 Yxy color 12.8660, 0.6005, 0.3433 by changing the saturation by 10% instead.





 12.8660, 0.6005,  
0.3433


 12.8660, 0.6005,  
0.3433


210.0571, 0.4355,  
0.3549

 7.3363, 0.6433,  
0.3289


 31.0628, 0.5381,  
0.3552

 3.6733, 0.6969,  
0.3031

 44.4988, 0.5150,  
0.3571


 1.4926, 0.7482,  
0.2518

 61.3390, 0.4958,  
0.3577

 0.2835, 0.8732,  
0.1268

 81.9678, 0.4797,  
0.3577

 0.0000, 1.0000,  
0.0000

 106.7696, 0.4661,  
0.3572

 0.0000, 0.0000,  
0.0000

 136.1288, 0.4544,


0.3566


 170.4299, 0.4443,  
0.3558

 12.8660, 0.6005,  
0.3433


 12.8660, 0.6005,  
0.3433


 11.8323, 0.6260,  
0.3385


 14.4583, 0.5636,  
0.3466

 11.6808, 0.6302,  
0.3378

 16.6747, 0.5203,  
0.3475

 19.5723, 0.4763,  
0.3466

 23.2011, 0.4357,  
0.3443

 27.6061, 0.4003,  
0.3412

■ 32.8291, 0.3706,  
0.3379

■ 38.9085, 0.3461,  
0.3346

■ 45.8805, 0.3260,  
0.3314

■ 53.7793, 0.3097,  
0.3284

# Harmonies

## Analogous

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



12.8660, 0.5401, 0.2654



12.8660, 0.6005, 0.3433



12.8660, 0.5543, 0.4363

# Triad

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



12.8660, 0.6005, 0.3433



12.8660, 0.1997, 0.5512



12.8660, 0.1434, 0.1305

# Complementary

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



12.8660, 0.6005, 0.3433



33.0585, 0.2176, 0.2958

# 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.



12.8660, 0.0996, 0.1445



12.8660, 0.6005, 0.3433



12.8660, 0.1184, 0.3464

# Square

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



12.8660, 0.6005, 0.3433



12.8660, 0.3187, 0.6248



12.8660, 0.0904, 0.2046



12.8660, 0.2356, 0.1481



# Rectangle

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



12.8660, 0.6005, 0.3433



12.8660, 0.4884, 0.5116



12.8660, 0.0904, 0.2046



12.8660, 0.1243, 0.1314

# Sweetspot

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



12.8668, 0.6005, 0.3433



60.3920, 0.3665, 0.3374



14.6442, 0.3481, 0.1747



12.4853, 0.3760, 0.3385



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

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



12.8668, 0.6005, 0.3433



20.7408, 0.6318, 0.3366



26.2122, 0.4886, 0.4389



9.7147, 0.3285, 0.3318



7.7399, 0.6286, 0.3391



0.3643, 0.5950, 0.3658



# Inverse Universe

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



33.0585, 0.2176, 0.2958



56.8073, 0.2140, 0.2902



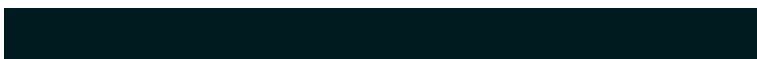
10.8223, 0.1766, 0.1449



10.6101, 0.2985, 0.3262



21.0100, 0.2143, 0.2914



0.8785, 0.2170, 0.3012



# Previews

## White Background



This preview shows how the Yxy color 12.8660, 0.6005, 0.3433 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 × Fail



# Black Background



This preview shows how the Yxy color 12.8660, 0.6005, 0.3433 looks on a black 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

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

**Yxy 12.8660, 0.6005, 0.3433**

## Background



This preview shows how black text looks on a background with the Yxy color 12.8660, 0.6005, 0.3433.



This preview shows how white text looks on a background with the Yxy color 12.8660, 0.6005, 0.3433.

# 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

12.8660, 0.6005, 0.3433

### Protanopia

13.1470, 0.4144, 0.4580

### Deuteranopia

12.9549, 0.4698, 0.4652



## Tritanopia

12.8223, 0.5833, 0.3298

# Trichromacy



## Original Color

12.8660, 0.6005, 0.3433

## Protanomaly

11.6519, 0.4942, 0.4059

## Deuteranomaly

11.9046, 0.5317, 0.4094

## Tritanomaly

12.8478, 0.5909, 0.3359

# Monochromacy



## Original Color

12.8660, 0.6005, 0.3433

## Achromatopsia

9.0842, 0.3127, 0.3290

## Achromatomaly

9.0132, 0.4360, 0.3456

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 12.8660, 0.6005, 0.3433 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(191, 43, 23)` looks like.

```
.text, #text, p{  
    color:rgb(191, 43, 23)  
}
```

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(191, 43, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 43, 23) }
```

## Border

The CSS property to change the border of an element to Yxy 12.8660, 0.6005, 0.3433 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(191, 43, 23) }
```

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

```
.border{ border-color:rgb(191, 43, 23) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 43, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 43, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 43, 23);  
box-shadow:4px 4px 4px 4px rgb(191, 43,  
23) }
```



# Background

The CSS property to change the background color of an element to Yxy 12.8660, 0.6005, 0.3433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 43, 23) }
```

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

```
.background{ background-color: rgb(191, 43,  
23) }
```

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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