

# Converting Colors

$Y_{xy}(31.2777, 0.3876, 0.5305)$

Have a look what the booklet for  
Yxy(31.2777, 0.3876, 0.5305)  
contains.

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**Color**

**Yxy(31.1809, 0.3874, 0.5306)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85A300
RGB	133, 163, 0
RGB Percent	52%, 64%, 0%
CMY	0.4786, 0.3607, 0.9999
CMYK	0.18, 0.00, 1.00, 0.36
HSL	71°, 100%, 32%
HSV	71°, 100%, 64%
XYZ	22.7657, 31.1809, 4.8188
YIQ	135.4480, 34.4430, -57.0530

# Conversions

## Conversions Part 2

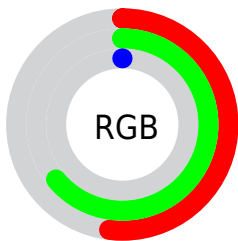
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 163, 30
Decimal	8758016
CIELab	62.66, -28.54, 64.88
CIELCh	63, 70.875, 113.742
Yxy	31.1809, 0.3874, 0.5306
Android (android.graphics.Color)	4286948096 (0xFF85A300)
YUV	135.4480, -66.7759, -2.1469
Hunter-Lab	55.8399, -24.9460, 33.9714

# Details

The Yxy color **31.1809, 0.3874, 0.5306** is a dark color, and the websafe version is hex **669900**. A complement of this color would be **2.9223, 0.1592, 0.0651**, and the grayscale version is **24.6470, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.5844, 0.3804, 0.4927**, and **12.9886, 0.3700, 0.5444** is the 20% darker color. If you saturate the color by 10%, you get **31.1820, 0.3874, 0.5306**, and if you desaturate by 10%, it is **31.4687, 0.3880, 0.5231**.

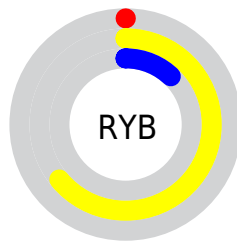
# Distribution



Red (52%)

Green (64%)

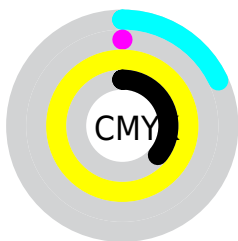
Blue (0%)



Red (0%)

Yellow (64%)

Blue (12%)

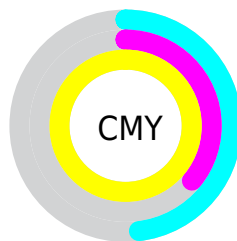


Cyan (18%)

Magenta (0%)

Yellow (100%)

Black (36%)



Cyan (48%)

Magenta (36%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.1809, 0.3874, 0.5306 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 31.1809, 0.3874, 0.5306 by changing the saturation by 10% instead.





 31.1809, 0.3874,  
0.5306


 31.1809, 0.3874,  
0.5306


307.3709, 0.3581,  
0.4249

 20.7366, 0.3892,  
0.5550


 61.5248, 0.3802,  
0.4927

 12.9316, 0.3880,  
0.5846

 82.1932, 0.3764,  
0.4782


 7.3815, 0.3800,  
0.6200

 107.0384, 0.3727,  
0.4658

 3.7018, 0.3511,  
0.6489

 136.4449, 0.3692,  
0.4552

 1.5082, 0.2965,  
0.7035

 170.7969, 0.3661,  
0.4460

 0.2945, 0.0000,  
1.0000


 210.4790, 0.3632,


 0.0000, 0.0000,


0.4381

0.0000


 255.8755, 0.3606,  
0.4311

 31.1809, 0.3874,  
0.5306


 31.1809, 0.3874,  
0.5306


 31.1820, 0.3874,  
0.5306

 31.4687, 0.3880,  
0.5231

 31.7931, 0.3867,  
0.5121

 32.1688, 0.3829,  
0.4966

 32.6013, 0.3767,  
0.4773

 33.0957, 0.3685,  
0.4548

■ 33.6561, 0.3586,  
0.4301

■ 34.2866, 0.3476,  
0.4044

■ 34.9907, 0.3360,  
0.3785

■ 35.7716, 0.3243,  
0.3532

# Harmonies

## Analogous

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



31.1809, 0.4757, 0.4678



31.1809, 0.3874, 0.5306



31.1809, 0.2867, 0.5248

# Triad

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



31.1809, 0.3874, 0.5306



31.1809, 0.1342, 0.2098



31.1809, 0.4228, 0.2525

# Complementary

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



31.1809, 0.3874, 0.5306



2.9223, 0.1592, 0.0651

# 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.



31.1809, 0.3058, 0.2016



31.1809, 0.3874, 0.5306



31.1809, 0.1554, 0.1752

# Square

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



31.1809, 0.3874, 0.5306



31.1809, 0.1464, 0.2912



31.1809, 0.2114, 0.1745



31.1809, 0.5113, 0.3182



# Rectangle

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



31.1809, 0.3874, 0.5306



31.1809, 0.2244, 0.4624



31.1809, 0.2114, 0.1745



31.1809, 0.3839, 0.2334

# Sweetspot

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



31.1823, 0.3874, 0.5306



61.3268, 0.3483, 0.4059



8.7114, 0.6192, 0.3465



13.6691, 0.3527, 0.4163



82.7571, 0.3127, 0.3290



14.7319, 0.3127, 0.3290



# Same Dimension

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



31.1823, 0.3874, 0.5306



55.7542, 0.3868, 0.5311



26.9192, 0.3162, 0.5871



8.1710, 0.3234, 0.3514



24.2483, 0.3877, 0.5304



0.5257, 0.3999, 0.5207



# Inverse Universe

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



2.9223, 0.1592, 0.0651



5.1676, 0.1580, 0.0644



6.0506, 0.2430, 0.1112



6.9199, 0.3014, 0.3060



2.2854, 0.1598, 0.0654



0.0644, 0.1902, 0.0822



# Previews

## White Background



This preview shows how the Yxy color 31.1809, 0.3874, 0.5306 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 Yxy color 31.1809, 0.3874, 0.5306 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](#).

**Yxy 31.1809, 0.3874, 0.5306**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.1809, 0.3874, 0.5306.



This preview shows how white text looks on a background with the Yxy color 31.1809, 0.3874, 0.5306.

# 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

31.1809, 0.3874, 0.5306

### Protanopia

31.1144, 0.4402, 0.4887

### Deuteranopia

30.8100, 0.4651, 0.4545



## Tritanopia

31.2478, 0.2960, 0.3106

# Trichromacy



## Original Color

31.1809, 0.3874, 0.5306

## Protanomaly

30.9450, 0.4204, 0.5044

## Deuteranomaly

30.4024, 0.4381, 0.4827

## Tritanomaly

30.4391, 0.3454, 0.4144

# Monochromacy



## Original Color

31.1809, 0.3874, 0.5306

## Achromatopsia

24.2281, 0.3127, 0.3290

## Achromatomaly

25.9910, 0.3588, 0.4310

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.1809, 0.3874, 0.5306 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(133, 163, 0)` looks like.

```
.text, #text, p{  
    color:rgb(133, 163, 0)  
}
```

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(133, 163, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 163, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 31.1809, 0.3874, 0.5306 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(133, 163, 0) }
```

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

```
.border{ border-color:rgb(133, 163, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 163, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 163, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 163, 0);  
box-shadow:4px 4px 4px 4px rgb(133, 163,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.1809, 0.3874, 0.5306 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 163, 0) }
```

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

```
.background{ background-color: rgb(133,  
163, 0) }
```

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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