

# Converting Colors

$Y_{xy}(30.2284, 0.2937, 0.6327)$

Have a look what the booklet for  
Yxy(30.2284, 0.2937, 0.6327)  
contains.

<b>Yxy(31.0507, 0.3000, 0.6000)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**Yxy(31.0507, 0.3000, 0.6000)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B000
RGB	0, 176, 0
RGB Percent	0%, 69%, 0%
CMY	1.0000, 0.3098, 0.9999
CMYK	1.00, 0.00, 1.00, 0.31
HSL	120°, 100%, 35%
HSV	120°, 100%, 69%
XYZ	15.5253, 31.0507, 5.1751
YIQ	103.3120, -48.4000, -92.0480

# Conversions

## Conversions Part 2

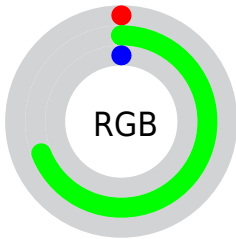
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 176, 176
Decimal	45056
CIELab	62.55, -65.26, 62.99
CIELCh	63, 90.697, 136.016
Yxy	31.0507, 0.3000, 0.6000
Android (android.graphics.Color)	4278235136 (0xFF00B000)
YUV	103.3120, -50.9328, -90.6046
Hunter-Lab	55.7232, -47.7826, 33.4998

# Details

The Yxy color **31.0507, 0.3000, 0.6000** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **12.3645, 0.3209, 0.1542**, and the grayscale version is **13.7992, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.3272, 0.3119, 0.5413**, and **13.9191, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **31.0520, 0.3000, 0.6000**, and if you desaturate by 10%, it is **31.2192, 0.3004, 0.5908**.

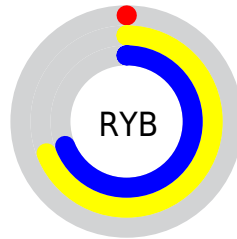
# Distribution



Red (0%)

Green (69%)

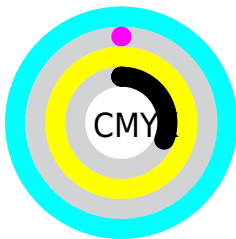
Blue (0%)



Red (0%)

Yellow (69%)

Blue (69%)

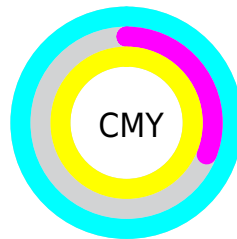


Cyan (100%)

Magenta (0%)

Yellow (100%)

Black (31%)



Cyan (100%)

Magenta (31%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.0507, 0.3000, 0.6000 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 31.0507, 0.3000, 0.6000 by changing the saturation by 10% instead.





 31.0507, 0.3000,  
0.6000


 31.0507, 0.3000,  
0.6000

306.7718, 0.3200,  
0.4465

 20.6375, 0.2881,  
0.6408


 61.3199, 0.3119,  
0.5412


 12.8593, 0.2683,  
0.6926


 81.9446, 0.3148,  
0.5198


 7.3317, 0.2365,  
0.7635


 106.7420, 0.3168,  
0.5022

 3.6704, 0.1752,  
0.8248

 136.0963, 0.3181,  
0.4873

 1.4909, 0.0000,  
1.0000

 170.3921, 0.3189,  
0.4747

 0.2823, 0.0000,  
1.0000

 210.0137, 0.3194,

 0.0000, 0.0000,


0.4640


0.0000

 255.3455, 0.3198,  
0.4546


 31.0507, 0.3000,  
0.6000


 31.0507, 0.3000,  
0.6000


 31.0520, 0.3000,  
0.6000

 31.2192, 0.3004,  
0.5908

 31.5354, 0.3012,  
0.5745

 32.0588, 0.3023,  
0.5500

 32.8164, 0.3038,  
0.5192

 33.8315, 0.3054,  
0.4848

■ 35.1243, 0.3071,  
0.4493

■ 36.7131, 0.3087,  
0.4149

■ 38.6147, 0.3102,  
0.3830

■ 40.8446, 0.3115,  
0.3543

# Harmonies

## Analogous

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



31.0507, 0.4184, 0.5543



31.0507, 0.3000, 0.6000



31.0507, 0.1901, 0.4935

# Triad

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



31.0507, 0.3000, 0.6000



31.0507, 0.1166, 0.1500



31.0507, 0.5431, 0.2874

# Complementary

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



31.0507, 0.3000, 0.6000



12.3645, 0.3209, 0.1542

# 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.



31.0507, 0.4125, 0.2170



31.0507, 0.3000, 0.6000



31.0507, 0.1679, 0.1426

# Square

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



31.0507, 0.3000, 0.6000



31.0507, 0.1014, 0.1978



31.0507, 0.2672, 0.1657



31.0507, 0.5793, 0.3653



# Rectangle

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



31.0507, 0.3000, 0.6000



31.0507, 0.1385, 0.3690



31.0507, 0.2672, 0.1657



31.0507, 0.5072, 0.2628

# Sweetspot

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



31.0520, 0.3000, 0.6000



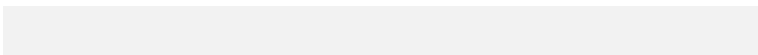
66.4176, 0.3086, 0.4167



40.2824, 0.4193, 0.5053



14.1252, 0.3079, 0.4306



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290



# Same Dimension

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



31.0520, 0.3000, 0.6000



56.3158, 0.3000, 0.6000



31.7566, 0.2723, 0.5001



9.4901, 0.3116, 0.3525



22.7825, 0.3000, 0.6000



0.7168, 0.3000, 0.6000



# Inverse Universe

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



12.3645, 0.3209, 0.1542



22.4243, 0.3209, 0.1542



9.9351, 0.4952, 0.2502



8.6467, 0.3138, 0.3066



9.0717, 0.3209, 0.1542

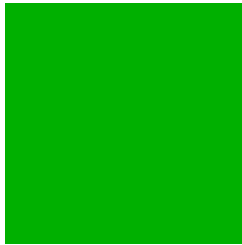


0.2854, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 31.0507, 0.3000, 0.6000 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

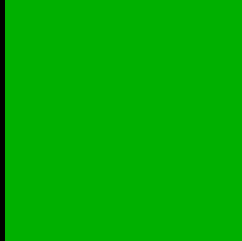
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.0507, 0.3000, 0.6000 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

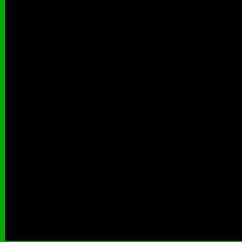
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

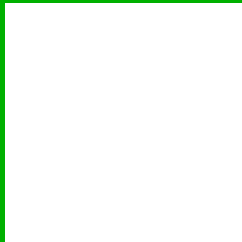
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 31.0507, 0.3000, 0.6000**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.0507, 0.3000, 0.6000.



This preview shows how white text looks on a background with the Yxy color 31.0507, 0.3000, 0.6000.

# 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

31.0507, 0.3000, 0.6000

### Protanopia

30.6793, 0.4403, 0.4886

### Deuteranopia

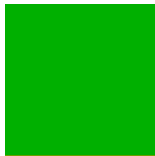
30.6037, 0.4592, 0.4510



## Tritanopia

31.1811, 0.2367, 0.3070

# Trichromacy



## Original Color

31.0507, 0.3000, 0.6000



## Protanomaly

28.3298, 0.3637, 0.5494



## Deuteranomaly

27.5017, 0.3756, 0.5261



## Tritanomaly

29.8019, 0.2655, 0.4359

# Monochromacy



## Original Color

31.0507, 0.3000, 0.6000



## Achromatopsia

13.5633, 0.3127, 0.3290



## Achromatomaly

17.5169, 0.3057, 0.4776

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.0507, 0.3000, 0.6000 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(0, 176, 0)` looks like.

```
.text, #text, p{  
    color:rgb(0, 176, 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(0, 176, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 176, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 31.0507, 0.3000, 0.6000 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(0, 176, 0) }
```

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

```
.border{ border-color:rgb(0, 176, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 176, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 176, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 176, 0); box-shadow:4px  
4px 4px 4px rgb(0, 176, 0) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.0507, 0.3000, 0.6000 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 176, 0) }
```

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

```
.background{ background-color: rgb(0, 176,  
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](#).

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