

# Converting Colors

$Y_{xy}(15.3142, 0.2625, 0.6370)$

Have a look what the booklet for  
Yxy(15.3142, 0.2625, 0.6370)  
contains.

<b>Yxy(16.2326, 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(16.2326, 0.3000, 0.6000)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	008300
RGB	0, 131, 0
RGB Percent	0%, 51%, 0%
CMY	1.0000, 0.4863, 1.0000
CMYK	1.00, 0.00, 1.00, 0.49
HSL	120°, 100%, 26%
HSV	120°, 100%, 51%
XYZ	8.1163, 16.2326, 2.7054
YIQ	76.8970, -36.0250, -68.5130

# Conversions

## Conversions Part 2

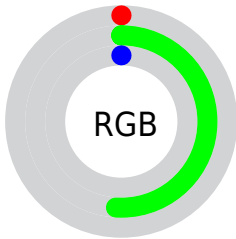
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 131, 131
Decimal	33536
CIELab	47.28, -52.57, 50.74
CIELCh	47, 73.063, 136.016
Yxy	16.2326, 0.3000, 0.6000
Android (android.graphics.Color)	4278223616 (0xFF008300)
YUV	76.8970, -37.9102, -67.4387
Hunter-Lab	40.2897, -34.5484, 24.2215

# Details

The Yxy color **16.2326, 0.3000, 0.6000** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **6.4640, 0.3209, 0.1542**, and the grayscale version is **7.4787, 0.3127, 0.3290**.

A 20% lighter version of the original color is **36.9071, 0.3139, 0.5305**, and **5.7373, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **16.2333, 0.3000, 0.6000**, and if you desaturate by 10%, it is **16.3489, 0.3006, 0.5880**.

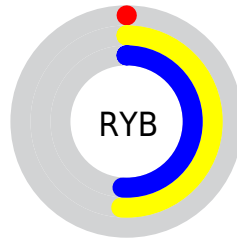
# Distribution



Red (0%)

Green (51%)

Blue (0%)



Red (0%)

Yellow (51%)

Blue (51%)

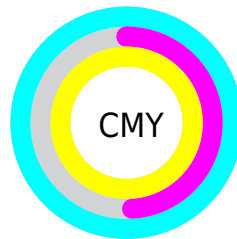


Cyan (100%)

Magenta (0%)

Yellow (100%)

Black (49%)



Cyan (100%)

Magenta (49%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 16.2326, 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 16.2326, 0.3000, 0.6000 by changing the saturation by 10% instead.





 16.2326, 0.3000,  
0.6000


 16.2326, 0.3000,  
0.6000


230.7104, 0.3201,  
0.4319


 9.6889, 0.2842,  
0.6521


 37.0015, 0.3135,  
0.5304


 5.1932, 0.2604,  
0.7396

 51.9956, 0.3163,  
0.5067


 2.3610, 0.1847,  
0.8153

 70.5752, 0.3180,  
0.4878

 0.8057, 0.0000,  
1.0000

 93.1247, 0.3190,  
0.4724


 0.0000, 0.0000,  
0.0000


 120.0286, 0.3196,  
0.4596


 151.6712, 0.3199,


0.4489


 188.4370, 0.3200,  
0.4397


 16.2326, 0.3000,  
0.6000


 16.2326, 0.3000,  
0.6000


 16.2333, 0.3000,  
0.6000

 16.3489, 0.3006,  
0.5880

 16.5310, 0.3014,  
0.5703

 16.8190, 0.3026,  
0.5451

 17.2256, 0.3040,  
0.5143

 17.7618, 0.3056,  
0.4804

■ 18.4373, 0.3072,  
0.4458

■ 19.2608, 0.3088,  
0.4125

■ 20.2404, 0.3102,  
0.3815

■ 21.3837, 0.3116,  
0.3536

# Harmonies

## Analogous

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



16.2326, 0.4186, 0.5545



16.2326, 0.3000, 0.6000



16.2326, 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.



16.2326, 0.3000, 0.6000



16.2326, 0.1166, 0.1500



16.2326, 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.



16.2326, 0.3000, 0.6000



6.4640, 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.



16.2326, 0.4125, 0.2170



16.2326, 0.3000, 0.6000



16.2326, 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.



16.2326, 0.3000, 0.6000



16.2326, 0.1014, 0.1978



16.2326, 0.2672, 0.1657



16.2326, 0.5793, 0.3653



# Rectangle

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



16.2326, 0.3000, 0.6000



16.2326, 0.1385, 0.3690



16.2326, 0.2672, 0.1657



16.2326, 0.5072, 0.2628

# Sweetspot

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



16.2333, 0.3000, 0.6000



34.3797, 0.3087, 0.4147



21.0587, 0.4193, 0.5053



7.8745, 0.3081, 0.4266



67.3860, 0.3127, 0.3290



9.4630, 0.3127, 0.3290



# Same Dimension

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



16.2333, 0.3000, 0.6000



29.0692, 0.3000, 0.6000



16.6207, 0.2711, 0.4960



5.2048, 0.3117, 0.3514



15.9786, 0.3000, 0.6000



0.0554, 0.3000, 0.6000



# Inverse Universe

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



6.4640, 0.3209, 0.1542



11.5752, 0.3209, 0.1542



5.2130, 0.4900, 0.2473



4.7628, 0.3137, 0.3076



6.3626, 0.3209, 0.1542

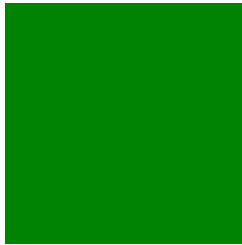


0.0220, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 16.2326, 0.3000, 0.6000 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



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

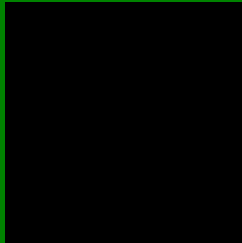
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**Yxy 16.2326, 0.3000, 0.6000**

## **Background**



This preview shows how black text looks on a background with the Yxy color 16.2326, 0.3000, 0.6000.



This preview shows how white text looks on a background with the Yxy color 16.2326, 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

16.2326, 0.3000, 0.6000

### Protanopia

16.0240, 0.4396, 0.4892

### Deuteranopia

16.0546, 0.4574, 0.4492



## Tritanopia

16.3972, 0.2377, 0.3069

# Trichromacy



## Original Color

16.2326, 0.3000, 0.6000



## Protanomaly

14.8991, 0.3647, 0.5486



## Deuteranomaly

14.4788, 0.3768, 0.5217



## Tritanomaly

15.6646, 0.2660, 0.4328

# Monochromacy



## Original Color

16.2326, 0.3000, 0.6000



## Achromatopsia

7.4214, 0.3127, 0.3290



## Achromatomaly

9.4241, 0.3060, 0.4730

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 16.2326, 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, 131, 0)` looks like.

```
.text, #text, p{  
    color:rgb(0, 131, 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, 131, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 131, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 16.2326, 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, 131, 0) }
```

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

```
.border{ border-color:rgb(0, 131, 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, 131, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 131, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 131, 0); box-shadow:4px  
4px 4px 4px rgb(0, 131, 0) }
```



# Background

The CSS property to change the background color of an element to Yxy 16.2326, 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, 131, 0) }
```

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

```
.background{ background-color: rgb(0, 131,  
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