

# Converting Colors

$Y_{xy}(31.2190, 0.2914, 0.5692)$

Have a look what the booklet for  
Yxy(31.2190, 0.2914, 0.5692)  
contains.

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# Color

**Yxy(31.2401, 0.2914, 0.5689)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B02D
RGB	0, 176, 45
RGB Percent	0%, 69%, 18%
CMY	0.9990, 0.3098, 0.8234
CMYK	1.00, 0.00, 0.74, 0.31
HSL	135°, 100%, 35%
HSV	135°, 100%, 69%
XYZ	16.0017, 31.2401, 7.6714
YIQ	108.4420, -62.8450, -78.0530

# Conversions

## Conversions Part 2

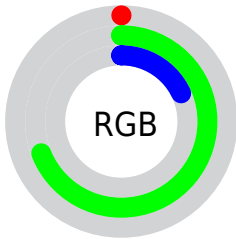
Format	Color
<a href="#">RYB</a>	<a href="#">0, 140, 176</a>
Decimal	<a href="#">45101</a>
CIELab	<a href="#">62.71, -63.18, 53.10</a>
CIELCh	<a href="#">63, 82.532, 139.953</a>
Yxy	<a href="#">31.2401, 0.2914, 0.5689</a>
Android (android.graphics.Color)	<a href="#">4278235181</a> ( <a href="#">0xFF00B02D</a> )
YUV	<a href="#">108.4420, -31.2769, -95.1036</a>
Hunter-Lab	<a href="#">55.8928, -46.7093, 30.9874</a>

# Details

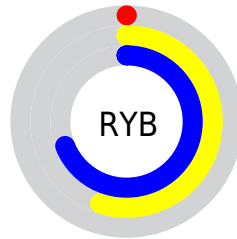
The Yxy color **31.2401, 0.2914, 0.5689** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **10.8805, 0.3975, 0.1964**, and the grayscale version is **15.2538, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.6116, 0.3021, 0.5155**, and **13.9191, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **31.2382, 0.2914, 0.5691**, and if you desaturate by 10%, it is **31.4842, 0.2889, 0.5499**.

# Distribution



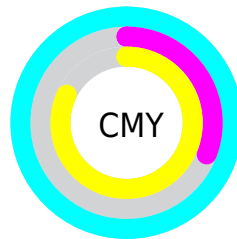
- Red (0%)
- Green (69%)
- Blue (18%)



- Red (0%)
- Yellow (55%)
- Blue (69%)



- Cyan (100%)
- Magenta (0%)
- Yellow (74%)
- Black (31%)




- Cyan (100%)
- Magenta (31%)
- Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.2401, 0.2914, 0.5689 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 31.2401, 0.2914, 0.5689 by changing the saturation by 10% instead.





 31.2401, 0.2914,  
0.5689


 31.2401, 0.2914,  
0.5689


307.6429, 0.3121,  
0.4313


 20.7817, 0.2812,  
0.6077


 61.6179, 0.3023,  
0.5151

 12.9646, 0.2644,  
0.6585


 82.3061, 0.3053,  
0.4960


 7.4041, 0.2395,  
0.7376


 107.1731, 0.3074,  
0.4802

 3.7161, 0.1857,  
0.8143

 136.6032, 0.3089,  
0.4672

 1.5161, 0.0000,  
1.0000

 170.9808, 0.3101,  
0.4561

 0.3000, 0.0000,  
1.0000

 210.6904, 0.3110,

 0.0000, 0.0000,

0.4466

0.0000

256.1163, 0.3116,  
0.4385

■ 31.2401, 0.2914,  
0.5689

■ 31.2401, 0.2914,  
0.5689

■ 31.2382, 0.2914,  
0.5691

■ 31.4842, 0.2889,  
0.5499

■ 31.8737, 0.2873,  
0.5269

■ 32.4545, 0.2871,  
0.5007

■ 33.2491, 0.2884,  
0.4729

■ 34.2765, 0.2910,  
0.4448

■ 35.5539, 0.2945,  
0.4176

■ 37.0965, 0.2986,  
0.3920

■ 38.9185, 0.3032,  
0.3685

■ 41.0331, 0.3080,  
0.3475

# Harmonies

## Analogous

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



31.2401, 0.4030, 0.5499



31.2401, 0.2914, 0.5689



31.2401, 0.1904, 0.4554

# Triad

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



31.2401, 0.2914, 0.5689



31.2401, 0.1328, 0.1591



31.2401, 0.5334, 0.3026

# Complementary

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



31.2401, 0.2914, 0.5689



10.8805, 0.3975, 0.1964

# 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.



31.2401, 0.4226, 0.2334



31.2401, 0.2914, 0.5689



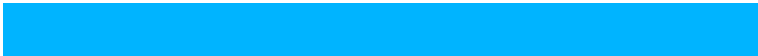
31.2401, 0.1876, 0.1554

# Square

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



31.2401, 0.2914, 0.5689



31.2401, 0.1141, 0.2001



31.2401, 0.2875, 0.1812



31.2401, 0.5577, 0.3793



# Rectangle

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



31.2401, 0.2914, 0.5689



31.2401, 0.1447, 0.3463



31.2401, 0.2875, 0.1812



31.2401, 0.5042, 0.2785

# Sweetspot

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



31.2414, 0.2914, 0.5689



67.0784, 0.2983, 0.3936



35.9613, 0.3759, 0.5396



14.2778, 0.2966, 0.4040



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.



31.2414, 0.2914, 0.5689



56.6259, 0.2922, 0.5718



32.7194, 0.2476, 0.4113



9.5244, 0.3082, 0.3464



22.9288, 0.2909, 0.5674



0.7311, 0.2752, 0.5105



# Inverse Universe

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



10.8805, 0.3975, 0.1964



19.6821, 0.3992, 0.1973



9.4189, 0.5917, 0.3035



8.6090, 0.3175, 0.3122



7.9878, 0.3967, 0.1959

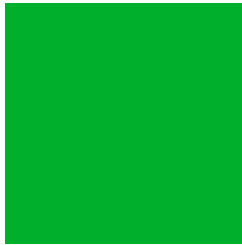


0.2601, 0.3714, 0.1820



# Previews

## White Background



This preview shows how the Yxy color 31.2401, 0.2914, 0.5689 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 31.2401, 0.2914, 0.5689 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

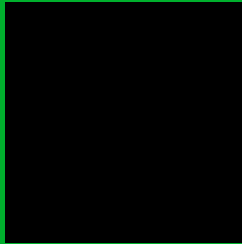
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.2401, 0.2914, 0.5689**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.2401, 0.2914, 0.5689.



This preview shows how white text looks on a background with the Yxy color 31.2401, 0.2914, 0.5689.

# 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

31.2401, 0.2914, 0.5689

### Protanopia

30.7147, 0.4283, 0.4733

### Deuteranopia

30.6418, 0.4460, 0.4363



## Tritanopia

31.1030, 0.2357, 0.3070

# Trichromacy



## Original Color

31.2401, 0.2914, 0.5689



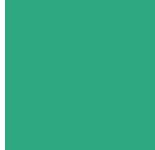
## Protanomaly

28.4899, 0.3532, 0.5253



## Deuteranomaly

27.6928, 0.3626, 0.4994



## Tritanomaly

30.1711, 0.2551, 0.4031

# Monochromacy



## Original Color

31.2401, 0.2914, 0.5689



## Achromatopsia

15.2926, 0.3127, 0.3290



## Achromatomaly

18.7122, 0.2913, 0.4353

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.2401, 0.2914, 0.5689 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, 45)` looks like.

```
.text, #text, p{  
    color:rgb(0, 176, 45)  
}
```

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, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 176, 45) }
```

## Border

The CSS property to change the border of an element to Yxy 31.2401, 0.2914, 0.5689 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, 45) }
```

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

```
.border{ border-color:rgb(0, 176, 45) }
```

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, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 176, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 176, 45);  
box-shadow:4px 4px 4px 4px rgb(0, 176, 45)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 31.2401, 0.2914, 0.5689 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, 45) }
```

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

```
.background{ background-color: rgb(0, 176,  
45) }
```

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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