

# Converting Colors

$Y_{xy}(31.2010, 0.3179, 0.5858)$

Have a look what the booklet for  
Yxy(31.2010, 0.3179, 0.5858)  
contains.

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**Color**

**Yxy(31.2019, 0.3180, 0.5857)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3BAE00
RGB	59, 174, 0
RGB Percent	23%, 68%, 0%
CMY	0.7685, 0.3176, 0.9999
CMYK	0.66, 0.00, 1.00, 0.32
HSL	100°, 100%, 34%
HSV	100°, 100%, 68%
XYZ	16.9408, 31.2019, 5.1302
YIQ	119.7790, -12.6860, -78.4940

# Conversions

## Conversions Part 2

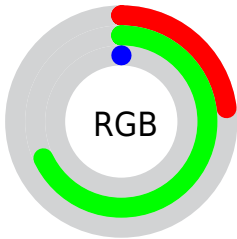
Format	Color
<b>RYB</b>	0, 174, 115
Decimal	3911168
CIELab	62.68, -57.74, 63.42
CIELCh	63, 85.765, 132.319
Yxy	31.2019, 0.3180, 0.5857
Android (android.graphics.Color)	4282101248 (0xFF3BAE00)
YUV	119.7790, -59.0510, -53.3032
Hunter-Lab	55.8587, -43.6173, 33.6557

# Details

The Yxy color **31.2019, 0.3180, 0.5857** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **6.7024, 0.2374, 0.1081**, and the grayscale version is **18.9072, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.7974, 0.3258, 0.5316**, and **13.4329, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **31.2025, 0.3180, 0.5857**, and if you desaturate by 10%, it is **31.6361, 0.3228, 0.5736**.

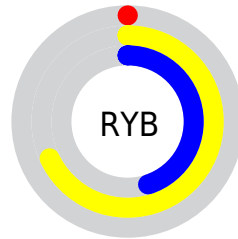
# Distribution



Red (23%)

Green (68%)

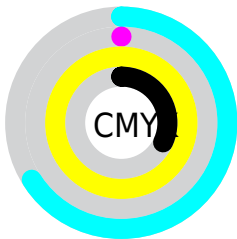
Blue (0%)



Red (0%)

Yellow (68%)

Blue (45%)

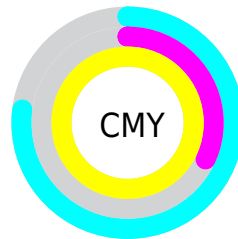


Cyan (66%)

Magenta (0%)

Yellow (100%)

Black (32%)



Cyan (77%)

Magenta (32%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.2019, 0.3180, 0.5857 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 31.2019, 0.3180, 0.5857 by changing the saturation by 10% instead.





 31.2019, 0.3180,  
0.5857


 31.2019, 0.3180,  
0.5857


307.4674, 0.3278,  
0.4421

 20.7526, 0.3089,  
0.6231


 61.5578, 0.3260,  
0.5313


 12.9433, 0.2928,  
0.6704


 82.2332, 0.3275,  
0.5113


 7.3895, 0.2657,  
0.7343


 107.0862, 0.3283,  
0.4947

 3.7069, 0.2098,  
0.7902

 136.5010, 0.3286,  
0.4808

 1.5110, 0.0000,  
1.0000

 170.8622, 0.3286,  
0.4689


 0.2964, 0.0000,  
1.0000


 210.5540, 0.3284,


 0.0000, 0.0000,


0.4587


0.0000


 255.9610, 0.3281,  
0.4498

 31.2019, 0.3180,  
0.5857


 31.2019, 0.3180,  
0.5857


 31.2025, 0.3180,  
0.5857

 31.6361, 0.3228,  
0.5736

 32.1879, 0.3268,  
0.5559

 32.8772, 0.3292,  
0.5324

 33.7149, 0.3300,  
0.5043

 34.7103, 0.3292,  
0.4736

■ 35.8719, 0.3272,  
0.4419

■ 37.2078, 0.3243,  
0.4108

■ 38.7251, 0.3207,  
0.3812

■ 40.4308, 0.3168,  
0.3539

# Harmonies

## Analogous

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



31.2019, 0.4314, 0.5360



31.2019, 0.3180, 0.5857



31.2019, 0.2089, 0.5025

# Triad

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



31.2019, 0.3180, 0.5857



31.2019, 0.1201, 0.1606



31.2019, 0.5195, 0.2818

# Complementary

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



31.2019, 0.3180, 0.5857



6.7024, 0.2374, 0.1081

# 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.



31.2019, 0.3897, 0.2146



31.2019, 0.3180, 0.5857



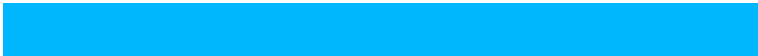
31.2019, 0.1655, 0.1488

# Square

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



31.2019, 0.3180, 0.5857



31.2019, 0.1095, 0.2143



31.2019, 0.2554, 0.1677



31.2019, 0.5686, 0.3577



# Rectangle

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



31.2019, 0.3180, 0.5857



31.2019, 0.1543, 0.3889



31.2019, 0.2554, 0.1677



31.2019, 0.4821, 0.2580

# Sweetspot

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



31.2032, 0.3180, 0.5857



67.3485, 0.3245, 0.4125



20.8343, 0.4973, 0.4433



14.7393, 0.3258, 0.4252



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.



31.2032, 0.3180, 0.5857



56.4867, 0.3169, 0.5866



30.3480, 0.2964, 0.5869



9.0664, 0.3165, 0.3521



22.6608, 0.3187, 0.5851



0.6610, 0.3442, 0.5649



# Inverse Universe

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



6.7024, 0.2374, 0.1081



12.0269, 0.2360, 0.1074



11.1347, 0.3626, 0.1771



8.0100, 0.3085, 0.3063



4.8938, 0.2383, 0.1086

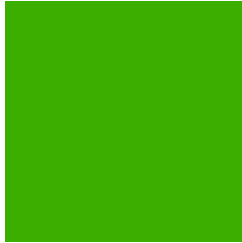


0.1646, 0.2642, 0.1229



# Previews

## White Background



This preview shows how the Yxy color 31.2019, 0.3180, 0.5857 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

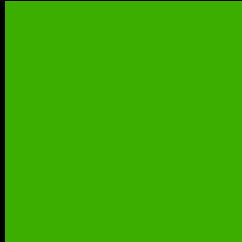
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.2019, 0.3180, 0.5857 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

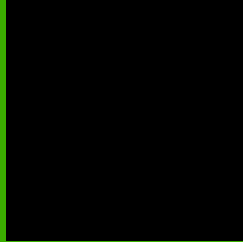
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.2019, 0.3180, 0.5857**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.2019, 0.3180, 0.5857.



This preview shows how white text looks on a background with the Yxy color 31.2019, 0.3180, 0.5857.

# 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

31.2019, 0.3180, 0.5857

### Protanopia

30.6793, 0.4403, 0.4886

### Deuteranopia

30.5973, 0.4596, 0.4516



## Tritanopia

31.1600, 0.2463, 0.3073

# Trichromacy



**Original Color**

31.2019, 0.3180, 0.5857

**Protanomaly**

29.5421, 0.3878, 0.5303

**Deuteranomaly**

28.9279, 0.4010, 0.5071

**Tritanomaly**

30.0824, 0.2834, 0.4321

# Monochromacy



**Original Color**

31.2019, 0.3180, 0.5857

**Achromatopsia**

18.7821, 0.3127, 0.3290

**Achromatomaly**

21.8746, 0.3287, 0.4574

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.2019, 0.3180, 0.5857 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(59, 174, 0)` looks like.

```
.text, #text, p{  
    color:rgb(59, 174, 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(59, 174, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 174, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 31.2019, 0.3180, 0.5857 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(59, 174, 0) }
```

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

```
.border{ border-color:rgb(59, 174, 0) }
```

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

Here you see how a box with a 4 pixel rgb(59, 174, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 174, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(59, 174, 0);  
box-shadow:4px 4px 4px 4px rgb(59, 174, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 31.2019, 0.3180, 0.5857 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 174, 0) }
```

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

```
.background{ background-color: rgb(59, 174,  
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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