

# Converting Colors

$Y_{xy}(30.5153, 0.2633, 0.6026)$

Have a look what the booklet for  
Yxy(30.5153, 0.2633, 0.6026)  
contains.

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# Color

**Yxy(31.9621, 0.2945, 0.5802)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B223
RGB	0, 178, 35
RGB Percent	0%, 70%, 14%
CMY	1.0000, 0.3019, 0.8628
CMYK	1.00, 0.00, 0.80, 0.30
HSL	132°, 100%, 35%
HSV	132°, 100%, 70%
XYZ	16.2234, 31.9621, 6.9025
YIQ	108.4760, -60.1850, -82.2090

# Conversions

## Conversions Part 2

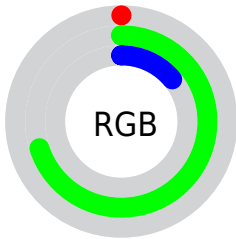
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 149, 178
Decimal	45603
CIELab	63.31, -64.50, 57.00
CIELCh	63, 86.078, 138.535
Yxy	31.9621, 0.2945, 0.5802
Android (android.graphics.Color)	4278235683 (0xFF00B223)
YUV	108.4760, -36.2237, -95.1335
Hunter-Lab	56.5350, -47.7135, 32.3356

# Details

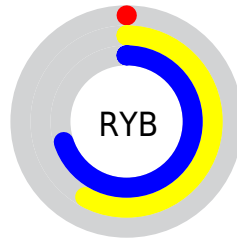
The Yxy color **31.9621, 0.2945, 0.5802** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **11.4492, 0.3777, 0.1854**, and the grayscale version is **15.2539, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.7308, 0.3058, 0.5245**, and **14.4153, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **31.9634, 0.2945, 0.5802**, and if you desaturate by 10%, it is **32.1930, 0.2925, 0.5629**.

# Distribution



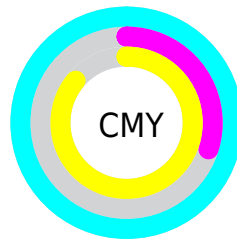
- Red (0%)
- Green (70%)
- Blue (14%)



- Red (0%)
- Yellow (58%)
- Blue (70%)



- Cyan (100%)
- Magenta (0%)
- Yellow (80%)
- Black (30%)




- Cyan (100%)
- Magenta (30%)
- Yellow (86%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.9621, 0.2945, 0.5802 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 31.9621, 0.2945, 0.5802 by changing the saturation by 10% instead.




 31.9621, 0.2945,  
0.5802


 31.9621, 0.2945,  
0.5802


310.9466, 0.3148,  
0.4372


 21.3326, 0.2839,  
0.6196


 62.7517, 0.3056,  
0.5248

 13.3673, 0.2663,  
0.6704


 83.6805, 0.3085,  
0.5049

 7.6820, 0.2424,  
0.7546


 108.8112, 0.3106,  
0.4885

 3.8921, 0.1842,  
0.8158

 138.5281, 0.3120,  
0.4748

 1.6134, 0.0000,  
1.0000

 173.2158, 0.3131,  
0.4632

 0.3666, 0.0000,  
1.0000

 213.2584, 0.3138,

 0.0000, 0.0000,

0.4532

0.0000

259.0406, 0.3144,  
0.4447

■ 31.9621, 0.2945,  
0.5802

■ 31.9621, 0.2945,  
0.5802

■ 31.9634, 0.2945,  
0.5802

■ 32.1930, 0.2925,  
0.5629

■ 32.5756, 0.2911,  
0.5404

■ 33.1585, 0.2910,  
0.5138

■ 33.9655, 0.2921,  
0.4846

■ 35.0170, 0.2943,  
0.4546

■ 36.3312, 0.2973,  
0.4253

■ 37.9243, 0.3009,  
0.3976

■ 39.8114, 0.3047,  
0.3721

■ 42.0063, 0.3087,  
0.3493

# Harmonies

## Analogous

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



31.9621, 0.4085, 0.5521



31.9621, 0.2945, 0.5802



31.9621, 0.1902, 0.4683

# Triad

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



31.9621, 0.2945, 0.5802



31.9621, 0.1270, 0.1558



31.9621, 0.5371, 0.2973

# Complementary

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



31.9621, 0.2945, 0.5802



11.4492, 0.3777, 0.1854

# 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.



31.9621, 0.4193, 0.2276



31.9621, 0.2945, 0.5802



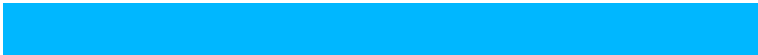
31.9621, 0.1806, 0.1508

# Square

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



31.9621, 0.2945, 0.5802



31.9621, 0.1095, 0.1992



31.9621, 0.2804, 0.1757



31.9621, 0.5654, 0.3745



# Rectangle

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



31.9621, 0.2945, 0.5802



31.9621, 0.1425, 0.3539



31.9621, 0.2804, 0.1757



31.9621, 0.5056, 0.2730

# Sweetspot

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



31.9634, 0.2945, 0.5802



68.6076, 0.3007, 0.3990



37.8956, 0.3874, 0.5306



14.9216, 0.2992, 0.4103



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



31.9634, 0.2945, 0.5802



57.9355, 0.2951, 0.5824



33.2383, 0.2543, 0.4354



9.5165, 0.3090, 0.3478



22.8766, 0.2941, 0.5786



0.7278, 0.2801, 0.5283



# Inverse Universe

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



11.4492, 0.3777, 0.1854



20.7283, 0.3788, 0.1860



9.7545, 0.5696, 0.2911



8.6175, 0.3166, 0.3109



8.2006, 0.3769, 0.1850

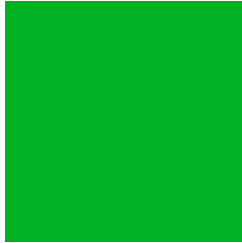


0.2653, 0.3587, 0.1749



# Previews

## White Background



This preview shows how the Yxy color 31.9621, 0.2945, 0.5802 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

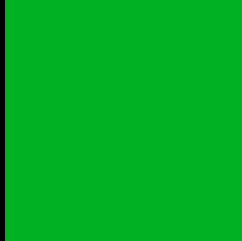
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 31.9621, 0.2945, 0.5802 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 31.9621, 0.2945, 0.5802**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.9621, 0.2945, 0.5802.



This preview shows how white text looks on a background with the Yxy color 31.9621, 0.2945, 0.5802.

# 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

31.9621, 0.2945, 0.5802

### Protanopia

31.5242, 0.4328, 0.4805

### Deuteranopia

31.4370, 0.4507, 0.4433



## Tritanopia

31.9830, 0.2363, 0.3072

# Trichromacy



## Original Color

31.9621, 0.2945, 0.5802



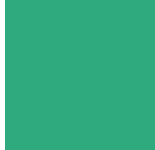
## Protanomaly

29.1908, 0.3569, 0.5349



## Deuteranomaly

28.3684, 0.3668, 0.5096



## Tritanomaly

30.8861, 0.2574, 0.4103

# Monochromacy



## Original Color

31.9621, 0.2945, 0.5802



## Achromatopsia

14.9960, 0.3127, 0.3290



## Achromatomaly

18.6343, 0.2957, 0.4469

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.9621, 0.2945, 0.5802 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, 178, 35)` looks like.

```
.text, #text, p{  
    color:rgb(0, 178, 35)  
}
```

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, 178, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 178, 35) }
```

## Border

The CSS property to change the border of an element to Yxy 31.9621, 0.2945, 0.5802 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, 178, 35) }
```

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

```
.border{ border-color:rgb(0, 178, 35) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 178, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 178, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 178, 35);  
box-shadow:4px 4px 4px 4px rgb(0, 178, 35)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 31.9621, 0.2945, 0.5802 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 178, 35) }
```

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

```
.background{ background-color: rgb(0, 178,  
35) }
```

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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