

# Converting Colors

$Y_{xy}(29.5080, 0.2883, 0.6182)$

Have a look what the booklet for  
Yxy(29.5080, 0.2883, 0.6182)  
contains.

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# Color

**Yxy(30.2721, 0.3000, 0.6000)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00AE00
RGB	0, 174, 0
RGB Percent	0%, 68%, 0%
CMY	1.0000, 0.3176, 0.9999
CMYK	1.00, 0.00, 1.00, 0.32
HSL	120°, 100%, 34%
HSV	120°, 100%, 68%
XYZ	15.1360, 30.2721, 5.0453
YIQ	102.1380, -47.8500, -91.0020

# Conversions

## Conversions Part 2

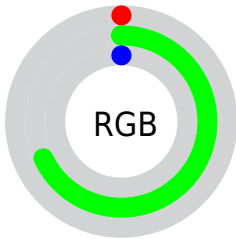
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 174, 174
Decimal	44544
CIELab	61.89, -64.71, 62.45
CIELCh	62, 89.933, 136.016
Yxy	30.2721, 0.3000, 0.6000
Android (android.graphics.Color)	4278234624 (0xFF00AE00)
YUV	102.1380, -50.3540, -89.5750
Hunter-Lab	55.0201, -47.1797, 33.0772

# Details

The Yxy color **30.2721, 0.3000, 0.6000** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **12.0545, 0.3209, 0.1542**, and the grayscale version is **13.4700, 0.3127, 0.3290**.

A 20% lighter version of the original color is **60.1466, 0.3116, 0.5406**, and **13.4329, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **30.2734, 0.3000, 0.6000**, and if you desaturate by 10%, it is **30.4380, 0.3004, 0.5908**.

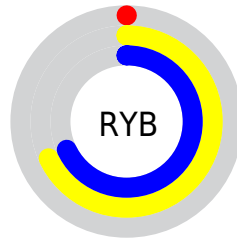
# Distribution



Red (0%)

Green (68%)

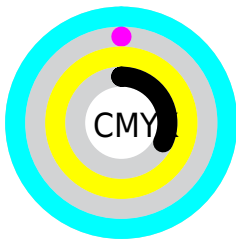
Blue (0%)



Red (0%)

Yellow (68%)

Blue (68%)

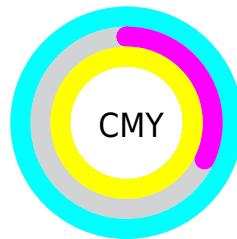


Cyan (100%)

Magenta (0%)

Yellow (100%)

Black (32%)



Cyan (100%)

Magenta (32%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.2721, 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 30.2721, 0.3000, 0.6000 by changing the saturation by 10% instead.





 30.2721, 0.3000,  
0.6000


 30.2721, 0.3000,  
0.6000


303.1707, 0.3200,  
0.4459


 20.0452, 0.2880,  
0.6412


 60.0922, 0.3120,  
0.5408


 12.4279, 0.2680,  
0.6939


 80.4542, 0.3149,  
0.5194


 7.0358, 0.2352,  
0.7648


 104.9634, 0.3168,  
0.5016

 3.4845, 0.1719,  
0.8281

 134.0042, 0.3181,  
0.4868

 1.3896, 0.0000,  
1.0000

 167.9609, 0.3189,  
0.4742


 0.2090, 0.0000,  
1.0000


 207.2180, 0.3194,


 0.0000, 0.0000,


0.4634


0.0000

 252.1598, 0.3198,  
0.4540


 30.2721, 0.3000,  
0.6000


 30.2721, 0.3000,  
0.6000


 30.2734, 0.3000,  
0.6000

 30.4380, 0.3004,  
0.5908

 30.7474, 0.3012,  
0.5744

 31.2586, 0.3023,  
0.5499

 31.9979, 0.3038,  
0.5191

 32.9879, 0.3054,  
0.4846

■ 34.2483, 0.3071,  
0.4492

■ 35.7968, 0.3087,  
0.4149

■ 37.6498, 0.3102,  
0.3830

■ 39.8224, 0.3115,  
0.3543

# Harmonies

## Analogous

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



30.2721, 0.4184, 0.5543



30.2721, 0.3000, 0.6000



30.2721, 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.



30.2721, 0.3000, 0.6000



30.2721, 0.1166, 0.1500



30.2721, 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.



30.2721, 0.3000, 0.6000



12.0545, 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.



30.2721, 0.4125, 0.2170



30.2721, 0.3000, 0.6000



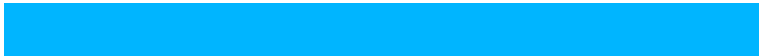
30.2721, 0.1679, 0.1426

# Square

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



30.2721, 0.3000, 0.6000



30.2721, 0.1014, 0.1978



30.2721, 0.2672, 0.1657



30.2721, 0.5793, 0.3653



# Rectangle

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



30.2721, 0.3000, 0.6000



30.2721, 0.1385, 0.3690



30.2721, 0.2672, 0.1657



30.2721, 0.5072, 0.2628

# Sweetspot

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



30.2734, 0.3000, 0.6000



64.7667, 0.3086, 0.4166



39.2724, 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.



30.2734, 0.3000, 0.6000



54.9109, 0.3000, 0.6000



30.9615, 0.2722, 0.5000



8.9394, 0.3116, 0.3524



21.9566, 0.3000, 0.6000



0.6108, 0.3000, 0.6000



# Inverse Universe

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



12.0545, 0.3209, 0.1542



21.8649, 0.3209, 0.1542



9.6872, 0.4950, 0.2501



8.1481, 0.3138, 0.3067



8.7429, 0.3209, 0.1542

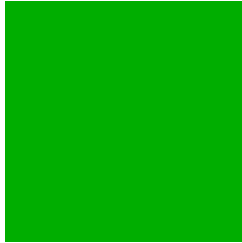


0.2432, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 30.2721, 0.3000, 0.6000 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

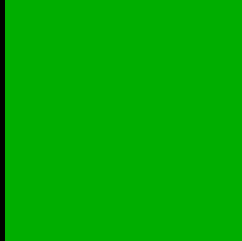
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 30.2721, 0.3000, 0.6000 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

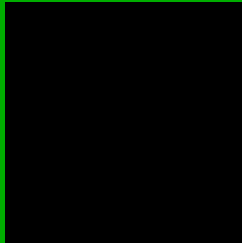
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 30.2721, 0.3000, 0.6000**

## **Background**



This preview shows how black text looks on a background with the Yxy color 30.2721, 0.3000, 0.6000.



This preview shows how white text looks on a background with the Yxy color 30.2721, 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

30.2721, 0.3000, 0.6000

### Protanopia

29.8197, 0.4405, 0.4884

### Deuteranopia

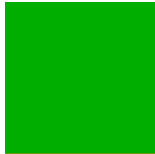
29.7545, 0.4594, 0.4501



## Tritanopia

30.3523, 0.2366, 0.3068

# Trichromacy



## Original Color

30.2721, 0.3000, 0.6000



## Protanomaly

27.5795, 0.3641, 0.5491



## Deuteranomaly

26.7704, 0.3761, 0.5254



## Tritanomaly

29.0010, 0.2658, 0.4372

# Monochromacy



## Original Color

30.2721, 0.3000, 0.6000



## Achromatopsia

13.2868, 0.3127, 0.3290



## Achromatomaly

16.9438, 0.3058, 0.4773

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.2721, 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, 174, 0)` looks like.

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

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

## Border

The CSS property to change the border of an element to Yxy 30.2721, 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, 174, 0) }
```

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

```
.border{ border-color:rgb(0, 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(0, 174, 0)` colored shadow looks like.

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



# Background

The CSS property to change the background color of an element to Yxy 30.2721, 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, 174, 0) }
```

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

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