

# Converting Colors

$Y_{xy}(27.6732, 0.3027, 0.6586)$

Have a look what the booklet for  
Yxy(27.6732, 0.3027, 0.6586)  
contains.

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**Color**

**Yxy(28.3759, 0.3000, 0.6000)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	00A900
RGB	0, 169, 0
RGB Percent	0%, 66%, 0%
CMY	1.0000, 0.3372, 0.9999
CMYK	1.00, 0.00, 1.00, 0.34
HSL	120°, 100%, 33%
HSV	120°, 100%, 66%
XYZ	14.1880, 28.3759, 4.7293
YIQ	99.2030, -46.4750, -88.3870

# Conversions

## Conversions Part 2

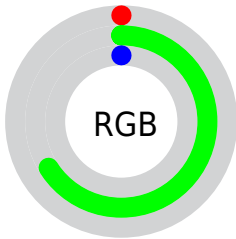
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 169, 169
Decimal	43264
CIELab	60.23, -63.33, 61.12
CIELCh	60, 88.014, 136.016
Yxy	28.3759, 0.3000, 0.6000
Android (android.graphics.Color)	4278233344 (0xFF00A900)
YUV	99.2030, -48.9071, -87.0010
Hunter-Lab	53.2690, -45.6782, 32.0245

# Details

The Yxy color **28.3759, 0.3000, 0.6000** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **11.2994, 0.3209, 0.1542**, and the grayscale version is **12.6670, 0.3127, 0.3290**.

A 20% lighter version of the original color is **57.3066, 0.3123, 0.5404**, and **12.2615, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **28.3771, 0.3000, 0.6000**, and if you desaturate by 10%, it is **28.5355, 0.3004, 0.5905**.

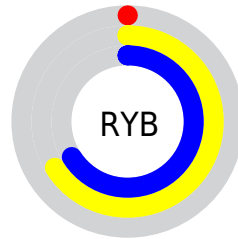
# Distribution



Red (0%)

Green (66%)

Blue (0%)



Red (0%)

Yellow (66%)

Blue (66%)

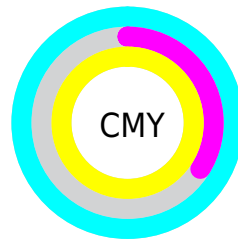


Cyan (100%)

Magenta (0%)

Yellow (100%)

Black (34%)



Cyan (100%)

Magenta (34%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 28.3759, 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 28.3759, 0.3000, 0.6000 by changing the saturation by 10% instead.





 28.3759, 0.3000,  
0.6000

 28.3759, 0.3000,  
0.6000


294.2588, 0.3200,  
0.4444

 18.6092, 0.2876,  
0.6422


 57.0840, 0.3121,  
0.5398


 11.3882, 0.2672,  
0.6975


 76.7943, 0.3151,  
0.5181

 6.3286, 0.2318,  
0.7682


 100.5878, 0.3170,  
0.5002

 3.0459, 0.1605,  
0.8395

 128.8490, 0.3182,  
0.4853

 1.1557, 0.0000,  
1.0000

 161.9623, 0.3190,  
0.4727


 0.0251, 0.0000,  
1.0000


 200.3121, 0.3195,


 0.0000, 0.0000,


0.4619


0.0000


 244.2828, 0.3198,  
0.4525

 28.3759, 0.3000,  
0.6000

 28.3759, 0.3000,  
0.6000


 28.3771, 0.3000,  
0.6000

 28.5355, 0.3004,  
0.5905

 28.8282, 0.3012,  
0.5740

 29.3096, 0.3024,  
0.5494

 30.0043, 0.3038,  
0.5186

 30.9332, 0.3054,  
0.4843

■ 32.1146, 0.3071,  
0.4489

■ 33.5651, 0.3087,  
0.4146

■ 35.2998, 0.3102,  
0.3828

■ 37.3328, 0.3115,  
0.3542

# Harmonies

## Analogous

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



28.3759, 0.4184, 0.5543



28.3759, 0.3000, 0.6000



28.3759, 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.



28.3759, 0.3000, 0.6000



28.3759, 0.1166, 0.1500



28.3759, 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.



28.3759, 0.3000, 0.6000



11.2994, 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.



28.3759, 0.4125, 0.2170



28.3759, 0.3000, 0.6000



28.3759, 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.



28.3759, 0.3000, 0.6000



28.3759, 0.1014, 0.1978



28.3759, 0.2672, 0.1657



28.3759, 0.5793, 0.3653



# Rectangle

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



28.3759, 0.3000, 0.6000



28.3759, 0.1385, 0.3690



28.3759, 0.2672, 0.1657



28.3759, 0.5072, 0.2628

# Sweetspot

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



28.3771, 0.3000, 0.6000



59.9588, 0.3086, 0.4164



36.8124, 0.4193, 0.5053



12.8296, 0.3080, 0.4300



84.8088, 0.3127, 0.3290



15.4872, 0.3127, 0.3290



# Same Dimension

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



28.3771, 0.3000, 0.6000



50.8198, 0.3000, 0.6000



29.0250, 0.2721, 0.4996



8.4078, 0.3116, 0.3523



21.1485, 0.3000, 0.6000



0.5145, 0.3000, 0.6000



# Inverse Universe

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



11.2994, 0.3209, 0.1542



20.2359, 0.3209, 0.1542



9.0833, 0.4945, 0.2498



7.6666, 0.3138, 0.3067



8.4211, 0.3209, 0.1542

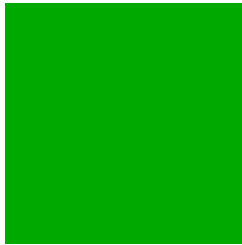


0.2049, 0.3209, 0.1542



# Previews

## White Background



This preview shows how the Yxy color 28.3759, 0.3000, 0.6000 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

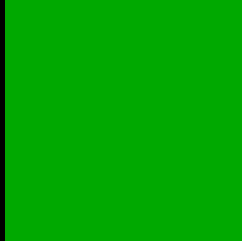
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the Yxy color 28.3759, 0.3000, 0.6000 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

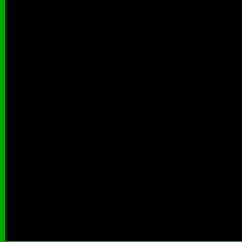
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

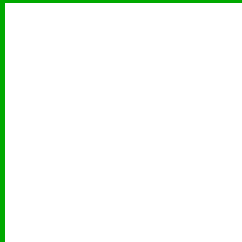
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 28.3759, 0.3000, 0.6000**

## Background



This preview shows how black text looks on a background with the Yxy color 28.3759, 0.3000, 0.6000.



This preview shows how white text looks on a background with the Yxy color 28.3759, 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

28.3759, 0.3000, 0.6000

### Protanopia

28.0373, 0.4399, 0.4889

### Deuteranopia

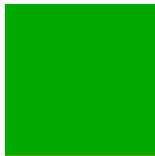
27.8486, 0.4584, 0.4505



## Tritanopia

28.3558, 0.2366, 0.3062

# Trichromacy



## Original Color

28.3759, 0.3000, 0.6000



## Protanomaly

26.0543, 0.3639, 0.5492



## Deuteranomaly

25.2057, 0.3749, 0.5254



## Tritanomaly

27.1303, 0.2657, 0.4361

# Monochromacy



## Original Color

28.3759, 0.3000, 0.6000



## Achromatopsia

12.4772, 0.3127, 0.3290



## Achromatomaly

15.8309, 0.3058, 0.4767

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 28.3759, 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, 169, 0)` looks like.

```
.text, #text, p{  
    color:rgb(0, 169, 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, 169, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 169, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 28.3759, 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, 169, 0) }
```

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

```
.border{ border-color:rgb(0, 169, 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, 169, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 169, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 169, 0); box-shadow:4px  
4px 4px 4px rgb(0, 169, 0) }
```



# Background

The CSS property to change the background color of an element to Yxy 28.3759, 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, 169, 0) }
```

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

```
.background{ background-color: rgb(0, 169,  
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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