

# Converting Colors

$Y_{xy}(29.8163, 0.3964, 0.5234)$

Have a look what the booklet for  
Yxy(29.8163, 0.3964, 0.5234)  
contains.

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**Color**

**Yxy(29.7721, 0.3964, 0.5235)**

# Conversions

## Conversions Part 1

Format	Color
Hex	899E00
RGB	137, 158, 0
RGB Percent	54%, 62%, 0%
CMY	0.4627, 0.3804, 1.0000
CMYK	0.13, 0.00, 1.00, 0.38
HSL	68°, 100%, 31%
HSV	68°, 100%, 62%
XYZ	22.5438, 29.7721, 4.5554
YIQ	133.7090, 38.2020, -53.5900

# Conversions

## Conversions Part 2

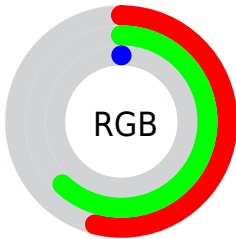
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 158, 21
Decimal	9018880
CIELab	61.46, -24.36, 64.12
CIELCh	61, 68.589, 110.806
Yxy	29.7721, 0.3964, 0.5235
Android (android.graphics.Color)	4287208960 (0xFF899E00)
YUV	133.7090, -65.9185, 2.8862
Hunter-Lab	54.5638, -21.7370, 33.2447

# Details

The Yxy color **29.7721, 0.3964, 0.5235** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **2.6281, 0.1557, 0.0631**, and the grayscale version is **23.9651, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.5389, 0.3870, 0.4877**, and **12.3092, 0.3805, 0.5361** is the 20% darker color. If you saturate the color by 10%, you get **29.7737, 0.3964, 0.5235**, and if you desaturate by 10%, it is **29.9897, 0.3961, 0.5168**.

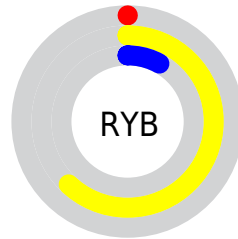
# Distribution



Red (54%)

Green (62%)

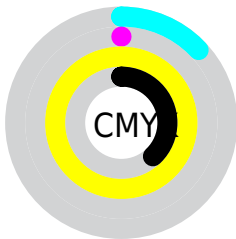
Blue (0%)



Red (0%)

Yellow (62%)

Blue (8%)

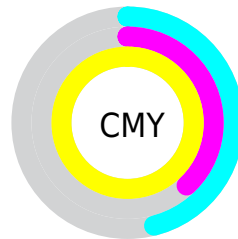


Cyan (13%)

Magenta (0%)

Yellow (100%)

Black (38%)



Cyan (46%)

Magenta (38%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 29.7721, 0.3964, 0.5235 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 29.7721, 0.3964, 0.5235 by changing the saturation by 10% instead.





 29.7721, 0.3964,  
0.5235


 29.7721, 0.3964,  
0.5235

300.8407, 0.3618,  
0.4219

 19.6657, 0.3996,  
0.5466

 59.3016, 0.3872,  
0.4873


 12.1523, 0.4006,  
0.5750


 79.4934, 0.3826,  
0.4733


 6.8475, 0.3938,  
0.6062


 103.8159, 0.3782,  
0.4614

 3.3669, 0.3678,  
0.6322

 132.6533, 0.3743,  
0.4512

 1.3261, 0.3153,  
0.6847

 166.3901, 0.3707,  
0.4424


 0.1613, 0.0000,  
1.0000


 205.4107, 0.3674,


 0.0000, 0.0000,

0.4347

0.0000

 250.0994, 0.3645,  
0.4279


 29.7721, 0.3964,  
0.5235

 29.7721, 0.3964,  
0.5235


 29.7737, 0.3964,  
0.5235

 29.9897, 0.3961,  
0.5168

 30.2377, 0.3938,  
0.5067

 30.5302, 0.3891,  
0.4923

 30.8725, 0.3820,  
0.4740

 31.2691, 0.3728,  
0.4525

■ 31.7239, 0.3620,  
0.4287

■ 32.2406, 0.3501,  
0.4036

■ 32.8223, 0.3377,  
0.3782

■ 33.4721, 0.3251,  
0.3531

# Harmonies

## Analogous

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



29.7721, 0.4809, 0.4592



29.7721, 0.3964, 0.5235



29.7721, 0.2973, 0.5262

# Triad

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



29.7721, 0.3964, 0.5235



29.7721, 0.1361, 0.2173



29.7721, 0.4101, 0.2479

# Complementary

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



29.7721, 0.3964, 0.5235



2.6281, 0.1557, 0.0631

# 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.



29.7721, 0.2955, 0.1996



29.7721, 0.3964, 0.5235



29.7721, 0.1539, 0.1790

# Square

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



29.7721, 0.3964, 0.5235



29.7721, 0.1518, 0.3029



29.7721, 0.2058, 0.1753



29.7721, 0.5023, 0.3120



# Rectangle

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



29.7721, 0.3964, 0.5235



29.7721, 0.2344, 0.4711



29.7721, 0.2058, 0.1753



29.7721, 0.3714, 0.2295

# Sweetspot

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



29.7737, 0.3964, 0.5235



58.4882, 0.3508, 0.4051



7.7162, 0.6290, 0.3388



13.0996, 0.3556, 0.4151



80.7346, 0.3127, 0.3290



13.9985, 0.3127, 0.3290



# Same Dimension

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



29.7737, 0.3964, 0.5235



54.0038, 0.3959, 0.5238



25.4332, 0.3231, 0.5817



7.6757, 0.3241, 0.3512



23.8569, 0.3966, 0.5233



0.4378, 0.4063, 0.5156



# Inverse Universe

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



2.6281, 0.1557, 0.0631



4.7222, 0.1547, 0.0626



5.0341, 0.2279, 0.1029



6.4754, 0.3007, 0.3060



2.1153, 0.1562, 0.0634



0.0485, 0.1810, 0.0771



# Previews

## White Background



This preview shows how the Yxy color 29.7721, 0.3964, 0.5235 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 29.7721, 0.3964, 0.5235 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

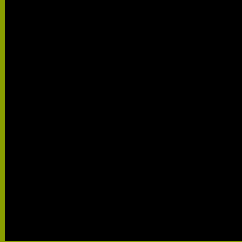
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 29.7721, 0.3964, 0.5235**

## **Background**



This preview shows how black text looks on a background with the Yxy color 29.7721, 0.3964, 0.5235.



This preview shows how white text looks on a background with the Yxy color 29.7721, 0.3964, 0.5235.

# 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

29.7721, 0.3964, 0.5235

### Protanopia

29.7104, 0.4394, 0.4893

### Deuteranopia

29.6937, 0.4643, 0.4562



## Tritanopia

29.7256, 0.3044, 0.3120

# Trichromacy



## Original Color

29.7721, 0.3964, 0.5235

## Protanomaly

29.5244, 0.4238, 0.5017

## Deuteranomaly

29.3429, 0.4408, 0.4809

## Tritanomaly

29.0925, 0.3545, 0.4110

# Monochromacy



## Original Color

29.7721, 0.3964, 0.5235

## Achromatopsia

23.8398, 0.3127, 0.3290

## Achromatomaly

25.4517, 0.3619, 0.4293

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 29.7721, 0.3964, 0.5235 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(137, 158, 0)` looks like.

```
.text, #text, p{  
    color:rgb(137, 158, 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(137, 158, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 158, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 29.7721, 0.3964, 0.5235 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(137, 158, 0) }
```

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

```
.border{ border-color:rgb(137, 158, 0) }
```

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

Here you see how a box with a 4 pixel rgb(137, 158, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 158, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 158, 0);  
box-shadow:4px 4px 4px 4px rgb(137, 158,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 29.7721, 0.3964, 0.5235 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 158, 0) }
```

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

```
.background{ background-color: rgb(137,  
158, 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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