

# Converting Colors

$Y_{xy}(31.2738, 0.4277, 0.5053)$

Have a look what the booklet for  
Yxy(31.2738, 0.4277, 0.5053)  
contains.

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**Color**

**Yxy(31.3540, 0.4248, 0.5009)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A19C00
RGB	161, 156, 0
RGB Percent	63%, 61%, 0%
CMY	0.3685, 0.3883, 0.9999
CMYK	0.00, 0.03, 1.00, 0.37
HSL	58°, 100%, 32%
HSV	58°, 100%, 63%
XYZ	26.5905, 31.3540, 4.6508
YIQ	139.7110, 53.0560, -47.4560

# Conversions

## Conversions Part 2

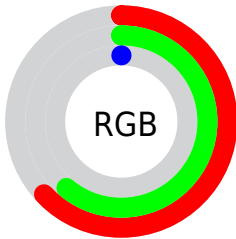
Format	Color
<a href="#">RYB</a>	<a href="#">5, 161, 0</a>
Decimal	<a href="#">10591232</a>
CIELab	<a href="#">62.81, -12.66, 65.96</a>
CIELCh	<a href="#">63, 67.164, 100.869</a>
Yxy	<a href="#">31.3540, 0.4248, 0.5009</a>
Android (android.graphics.Color)	<a href="#">4288781312</a> ( <a href="#">0xFFA19C00</a> )
YUV	<a href="#">139.7110, -68.8775, 18.6705</a>
Hunter-Lab	<a href="#">55.9946, -13.2253, 34.2717</a>

# Details

The Yxy color **31.3540, 0.4248, 0.5009** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **2.6841, 0.1507, 0.0623**, and the grayscale version is **26.3677, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.6343, 0.4097, 0.4724**, and **13.1064, 0.4193, 0.5053** is the 20% darker color. If you saturate the color by 10%, you get **31.3551, 0.4248, 0.5009**, and if you desaturate by 10%, it is **31.5624, 0.4215, 0.4970**.

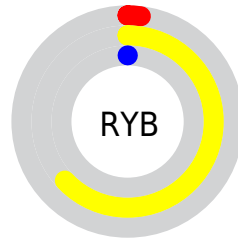
# Distribution



Red (63%)

Green (61%)

Blue (0%)



Red (2%)

Yellow (63%)

Blue (0%)

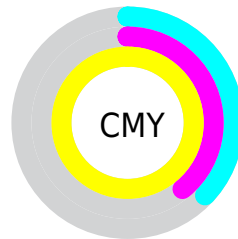


Cyan (0%)

Magenta (3%)

Yellow (100%)

Black (37%)



Cyan (37%)

Magenta (39%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.3540, 0.4248, 0.5009 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 31.3540, 0.4248, 0.5009 by changing the saturation by 10% instead.





 31.3540, 0.4248,  
0.5009


 31.3540, 0.4248,  
0.5009


308.1659, 0.3749,  
0.4157

 20.8686, 0.4322,  
0.5184


 61.7970, 0.4098,  
0.4720

 13.0280, 0.4389,  
0.5385

 82.5233, 0.4030,  
0.4603

 7.4478, 0.4410,  
0.5590


 107.4321, 0.3970,  
0.4502

 3.7437, 0.4287,  
0.5713

 136.9076, 0.3915,  
0.4415

 1.5312, 0.4077,  
0.5923

 171.3344, 0.3867,  
0.4338


 0.3106, 0.0000,  
1.0000

 211.0968, 0.3823,

 0.0000, 0.0000,


0.4270

0.0000


 256.5791, 0.3784,  
0.4211


 31.3540, 0.4248,  
0.5009


 31.3540, 0.4248,  
0.5009


 31.3551, 0.4248,  
0.5009

 31.5624, 0.4215,  
0.4970

 31.8001, 0.4163,  
0.4898

 32.0813, 0.4085,  
0.4785

 32.4116, 0.3982,  
0.4631

 32.7956, 0.3860,  
0.4444

■ 33.2376, 0.3722,  
0.4230

■ 33.7411, 0.3574,  
0.3999

■ 34.3096, 0.3423,  
0.3761

■ 34.9463, 0.3273,  
0.3522

# Harmonies

## Analogous

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



31.3540, 0.4962, 0.4325



31.3540, 0.4248, 0.5009



31.3540, 0.3311, 0.5278

# Triad

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



31.3540, 0.4248, 0.5009



31.3540, 0.1423, 0.2434



31.3540, 0.3697, 0.2327

# Complementary

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



31.3540, 0.4248, 0.5009



2.6841, 0.1507, 0.0623

# 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.



31.3540, 0.2637, 0.1926



31.3540, 0.4248, 0.5009



31.3540, 0.1491, 0.1918

# Square

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



31.3540, 0.4248, 0.5009



31.3540, 0.1703, 0.3425



31.3540, 0.1884, 0.1776



31.3540, 0.4718, 0.2915



# Rectangle

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



31.3540, 0.4248, 0.5009



31.3540, 0.2671, 0.4963



31.3540, 0.1884, 0.1776



31.3540, 0.3324, 0.2168

# Sweetspot

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



31.3555, 0.4248, 0.5009



60.3503, 0.3583, 0.4013



7.5922, 0.6359, 0.3277



13.1553, 0.3642, 0.4105



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.



31.3555, 0.4248, 0.5009



56.0775, 0.4249, 0.5008



27.4724, 0.3419, 0.5667



8.1991, 0.3262, 0.3505



25.0450, 0.4247, 0.5009



0.5372, 0.4226, 0.5026



# Inverse Universe

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



2.6841, 0.1507, 0.0623



4.7502, 0.1505, 0.0617



4.0770, 0.1970, 0.0859



6.8938, 0.2987, 0.3065



2.1537, 0.1507, 0.0626



0.0553, 0.1541, 0.0747



# Previews

## White Background



This preview shows how the Yxy color 31.3540, 0.4248, 0.5009 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 31.3540, 0.4248, 0.5009 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

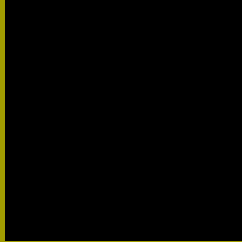
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.3540, 0.4248, 0.5009**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.3540, 0.4248, 0.5009.



This preview shows how white text looks on a background with the Yxy color 31.3540, 0.4248, 0.5009.

# 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

31.3540, 0.4248, 0.5009

### Protanopia

31.2271, 0.4412, 0.4879

### Deuteranopia

31.2148, 0.4670, 0.4574



## Tritanopia

31.3090, 0.3292, 0.3131

# Trichromacy



## Original Color

31.3540, 0.4248, 0.5009

## Protanomaly

31.1073, 0.4358, 0.4922

## Deuteranomaly

31.0381, 0.4529, 0.4728

## Tritanomaly

30.6112, 0.3821, 0.4042

# Monochromacy



## Original Color

31.3540, 0.4248, 0.5009

## Achromatopsia

26.2251, 0.3127, 0.3290

## Achromatomaly

27.5749, 0.3717, 0.4219

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.3540, 0.4248, 0.5009 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(161, 156, 0)` looks like.

```
.text, #text, p{  
    color:rgb(161, 156, 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(161, 156, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(161, 156, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 31.3540, 0.4248, 0.5009 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(161, 156, 0) }
```

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

```
.border{ border-color:rgb(161, 156, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(161, 156, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(161, 156, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(161, 156, 0);  
box-shadow:4px 4px 4px 4px rgb(161, 156,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.3540, 0.4248, 0.5009 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(161, 156, 0) }
```

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

```
.background{ background-color: rgb(161,  
156, 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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