

# Converting Colors

$Y_{xy}(29.8426, 0.4373, 0.5412)$

Have a look what the booklet for  
Yxy(29.8426, 0.4373, 0.5412)  
contains.

<b>Yxy(30.2150, 0.4171, 0.5070)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(30.2150, 0.4171, 0.5070)**

# Conversions

## Conversions Part 1

Format	Color
Hex	999B00
RGB	153, 155, 0
RGB Percent	60%, 61%, 0%
CMY	0.4000, 0.3921, 0.9998
CMYK	0.01, 0.00, 1.00, 0.39
HSL	61°, 100%, 30%
HSV	61°, 100%, 61%
XYZ	24.8574, 30.2150, 4.5233
YIQ	136.7320, 48.5630, -48.6290

# Conversions

## Conversions Part 2

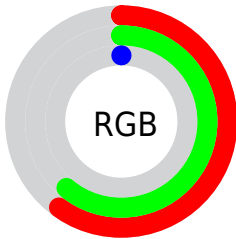
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 155, 2
Decimal	10066688
CIELab	61.84, -15.77, 64.94
CIELCh	62, 66.825, 103.646
Yxy	30.2150, 0.4171, 0.5070
Android (android.graphics.Color)	4288256768 (0xFF999B00)
YUV	136.7320, -67.4089, 14.2670
Hunter-Lab	54.9682, -15.4742, 33.5988

# Details

The Yxy color **30.2150, 0.4171, 0.5070** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **2.3815, 0.1505, 0.0603**, and the grayscale version is **25.1583, 0.3127, 0.3290**.

A 20% lighter version of the original color is **59.9309, 0.4037, 0.4757**, and **12.4420, 0.4082, 0.5141** is the 20% darker color. If you saturate the color by 10%, you get **30.2162, 0.4171, 0.5070**, and if you desaturate by 10%, it is **30.2720, 0.4147, 0.5024**.

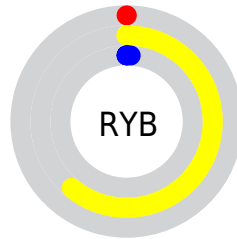
# Distribution



Red (60%)

Green (61%)

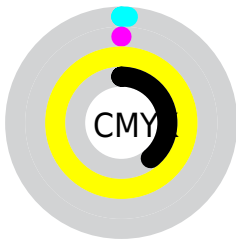
Blue (0%)



Red (0%)

Yellow (61%)

Blue (1%)

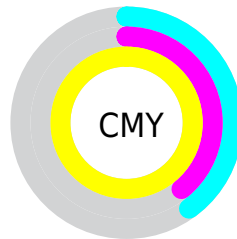


Cyan (1%)

Magenta (0%)

Yellow (100%)

Black (39%)



Cyan (40%)

Magenta (39%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 30.2150, 0.4171, 0.5070 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 30.2150, 0.4171, 0.5070 by changing the saturation by 10% instead.





 30.2150, 0.4171,  
0.5070


 30.2150, 0.4171,  
0.5070


302.9053, 0.3711,  
0.4171


 20.0018, 0.4235,  
0.5261


 60.0020, 0.4035,  
0.4759


 12.3964, 0.4288,  
0.5489


 80.3447, 0.3973,  
0.4636


 7.0142, 0.4281,  
0.5719


 104.8326, 0.3917,  
0.4530

 3.4710, 0.4120,  
0.5880

 133.8502, 0.3866,  
0.4438

 1.3823, 0.3838,  
0.6162

 167.7819, 0.3821,  
0.4358


 0.2036, 0.0000,  
1.0000


 207.0120, 0.3780,


 0.0000, 0.0000,


0.4288


0.0000

 251.9251, 0.3744,  
0.4226

 30.2150, 0.4171,  
0.5070

 30.2150, 0.4171,  
0.5070


 30.2162, 0.4171,  
0.5070

 30.2720, 0.4147,  
0.5024

 30.3548, 0.4103,  
0.4946

 30.4770, 0.4035,  
0.4827

 30.6435, 0.3943,  
0.4668

 30.8586, 0.3830,  
0.4475

■ 31.1260, 0.3700,  
0.4255

■ 31.4491, 0.3560,  
0.4019

■ 31.8311, 0.3415,  
0.3774

■ 32.2748, 0.3269,  
0.3528

# Harmonies

## Analogous

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



30.2150, 0.4922, 0.4396



30.2150, 0.4171, 0.5070



30.2150, 0.3219, 0.5277

# Triad

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



30.2150, 0.4171, 0.5070



30.2150, 0.1406, 0.2360



30.2150, 0.3806, 0.2370

# Complementary

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



30.2150, 0.4171, 0.5070



2.3815, 0.1505, 0.0603

# 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.



30.2150, 0.2722, 0.1946



30.2150, 0.4171, 0.5070



30.2150, 0.1504, 0.1882

# Square

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



30.2150, 0.4171, 0.5070



30.2150, 0.1652, 0.3314



30.2150, 0.1931, 0.1770



30.2150, 0.4803, 0.2972



# Rectangle

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



30.2150, 0.4171, 0.5070



30.2150, 0.2581, 0.4898



30.2150, 0.1931, 0.1770



30.2150, 0.3428, 0.2204

# Sweetspot

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



30.2164, 0.4171, 0.5070



56.2780, 0.3569, 0.4034



6.9706, 0.6400, 0.3300



12.6846, 0.3625, 0.4128



78.7412, 0.3127, 0.3290



13.2868, 0.3127, 0.3290



# Same Dimension

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



30.2164, 0.4171, 0.5070



54.1024, 0.4171, 0.5071



25.0450, 0.3375, 0.5702



7.2188, 0.3258, 0.3510



24.2690, 0.4171, 0.5070



0.3639, 0.4182, 0.5062



# Inverse Universe

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



2.3815, 0.1505, 0.0603



4.2552, 0.1504, 0.0602



3.9681, 0.2037, 0.0896



6.0300, 0.2990, 0.3060



1.9126, 0.1506, 0.0603



0.0295, 0.1533, 0.0618



# Previews

## White Background



This preview shows how the Yxy color 30.2150, 0.4171, 0.5070 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 30.2150, 0.4171, 0.5070 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

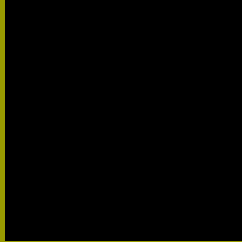
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 30.2150, 0.4171, 0.5070**

## **Background**



This preview shows how black text looks on a background with the Yxy color 30.2150, 0.4171, 0.5070.



This preview shows how white text looks on a background with the Yxy color 30.2150, 0.4171, 0.5070.

# 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

30.2150, 0.4171, 0.5070

### Protanopia

30.2477, 0.4404, 0.4885

### Deuteranopia

30.2308, 0.4661, 0.4571



## Tritanopia

30.0996, 0.3219, 0.3126

# Trichromacy



## Original Color

30.2150, 0.4171, 0.5070

## Protanomaly

30.2430, 0.4315, 0.4956

## Deuteranomaly

30.1320, 0.4489, 0.4758

## Tritanomaly

29.4516, 0.3736, 0.4054

# Monochromacy



## Original Color

30.2150, 0.4171, 0.5070

## Achromatopsia

25.0158, 0.3127, 0.3290

## Achromatomaly

26.4743, 0.3689, 0.4242

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 30.2150, 0.4171, 0.5070 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(153, 155, 0)` looks like.

```
.text, #text, p{  
    color:rgb(153, 155, 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(153, 155, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 155, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 30.2150, 0.4171, 0.5070 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(153, 155, 0) }
```

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

```
.border{ border-color:rgb(153, 155, 0) }
```

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

Here you see how a box with a 4 pixel rgb(153, 155, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 155, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 155, 0);  
box-shadow:4px 4px 4px 4px rgb(153, 155,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 30.2150, 0.4171, 0.5070 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 155, 0) }
```

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

```
.background{ background-color: rgb(153,  
155, 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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor