

# Converting Colors

$Yxy(22.4075, 0.3332, 0.5736)$

Have a look what the booklet for  
Yxy(22.4075, 0.3332, 0.5736)  
contains.

<b>Yxy(22.4450, 0.3333, 0.5735)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**$\text{Yxy}(22.4450, 0.3333, 0.5735)$**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	459400
RGB	69, 148, 0
RGB Percent	27%, 58%, 0%
CMY	0.7294, 0.4196, 0.9996
CMYK	0.53, 0.00, 1.00, 0.42
HSL	92°, 100%, 29%
HSV	92°, 100%, 58%
XYZ	13.0443, 22.4450, 3.6476
YIQ	107.5070, 0.4240, -62.7760

# Conversions

## Conversions Part 2

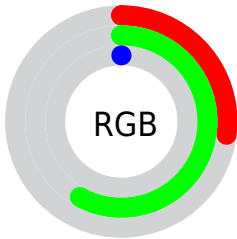
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 148, 79
Decimal	4559872
CIELab	54.50, -45.95, 57.07
CIELCh	54, 73.274, 128.841
Yxy	22.4450, 0.3333, 0.5735
Android (android.graphics.Color)	4282749952 (0xFF459400)
YUV	107.5070, -53.0010, -33.7706
Hunter-Lab	47.3762, -33.7609, 28.5985

# Details

The Yxy color **22.4450, 0.3333, 0.5735** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **3.8077, 0.2109, 0.0936**, and the grayscale version is **15.0054, 0.3127, 0.3290**.

A 20% lighter version of the original color is **47.5772, 0.3381, 0.5183**, and **8.3657, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **22.4436, 0.3333, 0.5736**, and if you desaturate by 10%, it is **22.7886, 0.3378, 0.5607**.

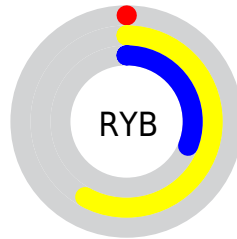
# Distribution



Red (27%)

Green (58%)

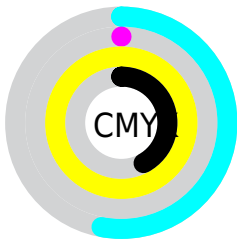
Blue (0%)



Red (0%)

Yellow (58%)

Blue (31%)

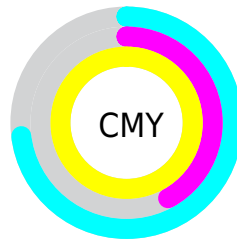


Cyan (53%)

Magenta (0%)

Yellow (100%)

Black (42%)



Cyan (73%)

Magenta (42%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 22.4450, 0.3333, 0.5735 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 22.4450, 0.3333, 0.5735 by changing the saturation by 10% instead.





 22.4450, 0.3333,  
0.5735


 22.4450, 0.3333,  
0.5735


264.8614, 0.3336,  
0.4314


 14.1842, 0.3255,  
0.6126


 47.4804, 0.3381,  
0.5180

 8.2489, 0.3138,  
0.6725

 65.0238, 0.3382,  
0.4982

 4.2546, 0.2754,  
0.7246

 86.4303, 0.3378,  
0.4819

 1.8170, 0.1817,  
0.8183

 112.0841, 0.3371,  
0.4683

 0.4977, 0.0000,  
1.0000


 142.3697, 0.3363,  
0.4569

 0.0000, 0.0000,  
0.0000


 177.6716, 0.3354,


0.4471


 218.3740, 0.3345,  
0.4387


 22.4450, 0.3333,  
0.5735


 22.4450, 0.3333,  
0.5735

 22.4436, 0.3333,  
0.5736

 22.7886, 0.3378,  
0.5607

 23.1953, 0.3410,  
0.5437

 23.6787, 0.3423,  
0.5215

 24.2446, 0.3415,  
0.4954

 24.8979, 0.3390,  
0.4669

■ 25.6433, 0.3351,  
0.4373

■ 26.4848, 0.3302,  
0.4079

■ 27.4263, 0.3246,  
0.3797

■ 28.4715, 0.3187,  
0.3532

# Harmonies

## Analogous

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



22.4450, 0.4419, 0.5207



22.4450, 0.3333, 0.5735



22.4450, 0.2254, 0.5091

# Triad

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



22.4450, 0.3333, 0.5735



22.4450, 0.1231, 0.1702



22.4450, 0.4988, 0.2764

# Complementary

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



22.4450, 0.3333, 0.5735



3.8077, 0.2109, 0.0936

# 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.



22.4450, 0.3707, 0.2122



22.4450, 0.3333, 0.5735



22.4450, 0.1635, 0.1542

# Square

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



22.4450, 0.3333, 0.5735



22.4450, 0.1168, 0.2294



22.4450, 0.2456, 0.1693



22.4450, 0.5580, 0.3503



# Rectangle

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



22.4450, 0.3333, 0.5735



22.4450, 0.1685, 0.4057



22.4450, 0.2456, 0.1693



22.4450, 0.4604, 0.2534

# Sweetspot

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



22.4460, 0.3333, 0.5735



46.6240, 0.3305, 0.4099



11.8862, 0.5285, 0.4185



10.5098, 0.3325, 0.4211



74.8414, 0.3127, 0.3290



11.9280, 0.3127, 0.3290



# Same Dimension

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



22.4460, 0.3333, 0.5735



39.4986, 0.3319, 0.5747



21.1924, 0.2992, 0.5972



6.5929, 0.3182, 0.3514



19.1856, 0.3337, 0.5732



0.2521, 0.3684, 0.5457



# Inverse Universe

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



3.8077, 0.2109, 0.0936



6.6072, 0.2089, 0.0925



8.2839, 0.3293, 0.1588



5.7763, 0.3068, 0.3067



3.2648, 0.2114, 0.0938



0.0575, 0.2590, 0.1201



# Previews

## White Background



This preview shows how the Yxy color 22.4450, 0.3333, 0.5735 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 22.4450, 0.3333, 0.5735 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 22.4450, 0.3333, 0.5735**

## **Background**



This preview shows how black text looks on a background with the Yxy color 22.4450, 0.3333, 0.5735.



This preview shows how white text looks on a background with the Yxy color 22.4450, 0.3333, 0.5735.

# 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

22.4450, 0.3333, 0.5735

### Protanopia

22.0763, 0.4396, 0.4892

### Deuteranopia

22.0462, 0.4597, 0.4520



## Tritanopia

22.5205, 0.2564, 0.3083

# Trichromacy



## Original Color

22.4450, 0.3333, 0.5735

## Protanomaly

21.7429, 0.3957, 0.5240

## Deuteranomaly

21.2167, 0.4106, 0.5000

## Tritanomaly

21.9661, 0.2958, 0.4270

# Monochromacy



## Original Color

22.4450, 0.3333, 0.5735

## Achromatopsia

14.9960, 0.3127, 0.3290

## Achromatomaly

16.9753, 0.3363, 0.4469

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 22.4450, 0.3333, 0.5735 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(69, 148, 0)` looks like.

```
.text, #text, p{  
    color:rgb(69, 148, 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(69, 148, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 148, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 22.4450, 0.3333, 0.5735 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(69, 148, 0) }
```

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

```
.border{ border-color:rgb(69, 148, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 148, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 148, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 148, 0);  
box-shadow:4px 4px 4px 4px rgb(69, 148, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 22.4450, 0.3333, 0.5735 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 148, 0) }
```

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

```
.background{ background-color: rgb(69, 148,  
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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