

# Converting Colors

$Y_{xy}(22.2224, 0.2227, 0.5178)$

Have a look what the booklet for  
Yxy(22.2224, 0.2227, 0.5178)  
contains.

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# Color

**$\text{Yxy}(24.0072, 0.2709, 0.4952)$**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	009B4F
RGB	0, 155, 79
RGB Percent	0%, 61%, 31%
CMY	0.9998, 0.3922, 0.6902
CMYK	1.00, 0.00, 0.49, 0.39
HSL	151°, 100%, 30%
HSV	151°, 100%, 61%
XYZ	13.1332, 24.0072, 11.3394
YIQ	99.9910, -67.9840, -56.4960

# Conversions

## Conversions Part 2

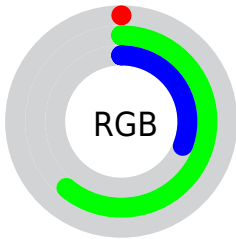
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 103, 155
Decimal	39759
CIELab	56.10, -52.26, 30.21
CIELCh	56, 60.363, 149.974
Yxy	24.0072, 0.2709, 0.4952
Android (android.graphics.Color)	4278229839 (0xFF009B4F)
YUV	99.9910, -10.3486, -87.6921
Hunter-Lab	48.9971, -37.8999, 20.5765

# Details

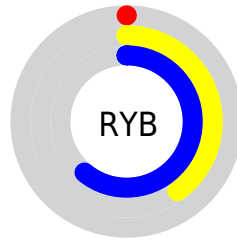
The Yxy color **24.0072, 0.2709, 0.4952** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **7.4924, 0.4970, 0.2512**, and the grayscale version is **12.7862, 0.3127, 0.3290**.

A 20% lighter version of the original color is **50.1997, 0.2830, 0.4555**, and **9.6070, 0.2852, 0.5466** is the 20% darker color. If you saturate the color by 10%, you get **24.0074, 0.2709, 0.4953**, and if you desaturate by 10%, it is **24.2312, 0.2686, 0.4774**.

# Distribution



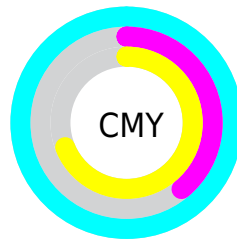
- Red (0%)
- Green (61%)
- Blue (31%)



- Red (0%)
- Yellow (40%)
- Blue (61%)



- Cyan (100%)
- Magenta (0%)
- Yellow (49%)
- Black (39%)




- Cyan (100%)
- Magenta (39%)
- Yellow (69%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.0072, 0.2709, 0.4952 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 24.0072, 0.2709, 0.4952 by changing the saturation by 10% instead.





 24.0072, 0.2709,  
0.4952


 24.0072, 0.2709,  
0.4952


272.8569, 0.2981,  
0.3960


 15.3390, 0.2610,  
0.5268


 50.0419, 0.2828,  
0.4544

 9.0576, 0.2456,  
0.5722


 68.1773, 0.2866,  
0.4406


 4.7788, 0.2199,  
0.6412

 90.2370, 0.2896,  
0.4295

 2.1181, 0.1647,  
0.8353

 116.6057, 0.2920,  
0.4204

 0.6748, 0.0000,  
1.0000

 147.6676, 0.2939,  
0.4128

 0.0000, 0.0000,  
0.0000

 183.8072, 0.2955,

0.4063

225.4088, 0.2969,  
0.4008

■ 24.0072, 0.2709,  
0.4952

■ 24.0072, 0.2709,  
0.4952

■ 24.0074, 0.2709,  
0.4953

■ 24.2312, 0.2686,  
0.4774

■ 24.5473, 0.2677,  
0.4589

■ 24.9926, 0.2687,  
0.4400

■ 25.5822, 0.2716,  
0.4212

■ 26.3290, 0.2761,  
0.4030

■ 27.2443, 0.2820,  
0.3856

■ 28.3384, 0.2888,  
0.3695

■ 29.6208, 0.2964,  
0.3546

■ 31.1002, 0.3045,  
0.3411

# Harmonies

## Analogous

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



24.0072, 0.3661, 0.5232



24.0072, 0.2709, 0.4952



24.0072, 0.1923, 0.3868

# Triad

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



24.0072, 0.2709, 0.4952



24.0072, 0.1721, 0.1811



24.0072, 0.5071, 0.3346

# Complementary

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



24.0072, 0.2709, 0.4952



7.4924, 0.4970, 0.2512

# 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.



24.0072, 0.4365, 0.2697



24.0072, 0.2709, 0.4952



24.0072, 0.2334, 0.1860

# Square

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



24.0072, 0.2709, 0.4952



24.0072, 0.1451, 0.2075



24.0072, 0.3289, 0.2171



24.0072, 0.5088, 0.4053



# Rectangle

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



24.0072, 0.2709, 0.4952



24.0072, 0.1600, 0.3082



24.0072, 0.3289, 0.2171



24.0072, 0.4906, 0.3121

# Sweetspot

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



24.0082, 0.2709, 0.4952



50.6187, 0.2884, 0.3704



25.0432, 0.3375, 0.5702



11.2761, 0.2856, 0.3767



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.



24.0082, 0.2709, 0.4952



42.9556, 0.2718, 0.4985



25.8102, 0.2247, 0.3287



6.9755, 0.3051, 0.3401



19.2902, 0.2705, 0.4938



0.2957, 0.2496, 0.4186



# Inverse Universe

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



7.4924, 0.4970, 0.2512



13.3771, 0.5012, 0.2535



6.9700, 0.6400, 0.3300



6.2706, 0.3211, 0.3181



6.0242, 0.4952, 0.2502



0.0974, 0.4079, 0.2020



# Previews

## White Background



This preview shows how the Yxy color 24.0072, 0.2709, 0.4952 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 24.0072, 0.2709, 0.4952 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 24.0072, 0.2709, 0.4952**

## **Background**



This preview shows how black text looks on a background with the Yxy color 24.0072, 0.2709, 0.4952.



This preview shows how white text looks on a background with the Yxy color 24.0072, 0.2709, 0.4952.

# 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

24.0072, 0.2709, 0.4952

### Protanopia

23.7211, 0.3950, 0.4312

### Deuteranopia

23.6873, 0.4023, 0.3955



## Tritanopia

23.9562, 0.2334, 0.3063

# Trichromacy



## Original Color

24.0072, 0.2709, 0.4952



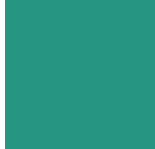
## Protanomaly

22.2337, 0.3247, 0.4640



## Deuteranomaly

21.6263, 0.3274, 0.4390



## Tritanomaly

23.4919, 0.2443, 0.3700

# Monochromacy



## Original Color

24.0072, 0.2709, 0.4952



## Achromatopsia

12.7438, 0.3127, 0.3290



## Achromatomaly

15.2956, 0.2791, 0.3966

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.0072, 0.2709, 0.4952 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, 155, 79)` looks like.

```
.text, #text, p{  
    color:rgb(0, 155, 79)  
}
```

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, 155, 79) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 155, 79) }
```

## Border

The CSS property to change the border of an element to Yxy 24.0072, 0.2709, 0.4952 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, 155, 79) }
```

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

```
.border{ border-color:rgb(0, 155, 79) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 155, 79)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 155, 79); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 155, 79);  
box-shadow:4px 4px 4px 4px rgb(0, 155, 79)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 24.0072, 0.2709, 0.4952 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 155, 79) }
```

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

```
.background{ background-color: rgb(0, 155,  
79) }
```

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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