

# Converting Colors

$Y_{xy}(22.0247, 0.2955, 0.5838)$

Have a look what the booklet for  
Yxy(22.0247, 0.2955, 0.5838)  
contains.

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**Color**

**Yxy(21.8786, 0.2956, 0.5842)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	009618
RGB	0, 150, 24
RGB Percent	0%, 59%, 9%
CMY	1.0000, 0.4117, 0.9060
CMYK	1.00, 0.00, 0.84, 0.41
HSL	130°, 100%, 29%
HSV	130°, 100%, 59%
XYZ	11.0704, 21.8786, 4.5016
YIQ	90.7860, -48.9540, -70.9860

# Conversions

## Conversions Part 2

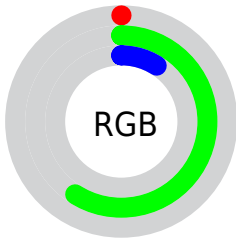
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 129, 150
Decimal	38424
CIELab	53.90, -57.10, 51.36
CIELCh	54, 76.801, 138.033
Yxy	21.8786, 0.2956, 0.5842
Android (android.graphics.Color)	4278228504 (0xFF009618)
YUV	90.7860, -32.9255, -79.6193
Hunter-Lab	46.7746, -39.6090, 27.0362

# Details

The Yxy color **21.8786, 0.2956, 0.5842** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **7.9917, 0.3651, 0.1785**, and the grayscale version is **10.4949, 0.3127, 0.3290**.

A 20% lighter version of the original color is **46.3165, 0.3078, 0.5221**, and **8.5494, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **21.8798, 0.2956, 0.5842**, and if you desaturate by 10%, it is **22.0465, 0.2943, 0.5675**.

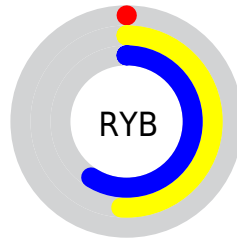
# Distribution



Red (0%)

Green (59%)

Blue (9%)



Red (0%)

Yellow (51%)

Blue (59%)

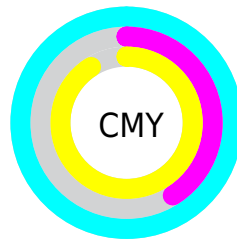


Cyan (100%)

Magenta (0%)

Yellow (84%)

Black (41%)



Cyan (100%)

Magenta (41%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.8786, 0.2956, 0.5842 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 21.8786, 0.2956, 0.5842 by changing the saturation by 10% instead.





 21.8786, 0.2956,  
0.5842


 21.8786, 0.2956,  
0.5842


261.9116, 0.3161,  
0.4311


 13.7677, 0.2829,  
0.6300


 46.5453, 0.3077,  
0.5223

 7.9593, 0.2617,  
0.6950


 63.8698, 0.3106,  
0.5008


 4.0689, 0.2207,  
0.7793

 85.0345, 0.3126,  
0.4835

 1.7122, 0.0384,  
0.9616

 110.4235, 0.3139,  
0.4692


 0.4315, 0.0000,  
1.0000


 140.4213, 0.3148,  
0.4573


 0.0000, 0.0000,  
0.0000


 175.4124, 0.3154,


0.4472


 215.7810, 0.3158,  
0.4385


 21.8786, 0.2956,  
0.5842


 21.8786, 0.2956,  
0.5842


 21.8798, 0.2956,  
0.5842

 22.0465, 0.2943,  
0.5675

 22.3133, 0.2933,  
0.5454

 22.7173, 0.2934,  
0.5186

 23.2743, 0.2946,  
0.4890

 23.9979, 0.2966,  
0.4584

■ 24.9000, 0.2993,  
0.4282

■ 25.9916, 0.3025,  
0.3997

■ 27.2828, 0.3059,  
0.3735

■ 28.7829, 0.3093,  
0.3499

# Harmonies

## Analogous

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



21.8786, 0.4105, 0.5527



21.8786, 0.2956, 0.5842



21.8786, 0.1902, 0.4731

# Triad

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



21.8786, 0.2956, 0.5842



21.8786, 0.1249, 0.1546



21.8786, 0.5383, 0.2953

# Complementary

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



21.8786, 0.2956, 0.5842



7.9917, 0.3651, 0.1785

# 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.



21.8786, 0.4181, 0.2255



21.8786, 0.2956, 0.5842



21.8786, 0.1781, 0.1492

# Square

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



21.8786, 0.2956, 0.5842



21.8786, 0.1079, 0.1989



21.8786, 0.2778, 0.1737



21.8786, 0.5681, 0.3728



# Rectangle

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



21.8786, 0.2956, 0.5842



21.8786, 0.1417, 0.3567



21.8786, 0.2778, 0.1737



21.8786, 0.5060, 0.2710

# Sweetspot

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



21.8798, 0.2956, 0.5842



45.7432, 0.3023, 0.4013



26.3648, 0.3935, 0.5257



9.9679, 0.3010, 0.4120



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.



21.8798, 0.2956, 0.5842



38.5933, 0.2962, 0.5865



22.6865, 0.2572, 0.4457



6.4827, 0.3096, 0.3481



18.1489, 0.2953, 0.5832



0.2250, 0.2792, 0.5250



# Inverse Universe

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



7.9917, 0.3651, 0.1785



14.0813, 0.3661, 0.1790



6.7369, 0.5537, 0.2824



5.8934, 0.3160, 0.3106



6.6317, 0.3647, 0.1783

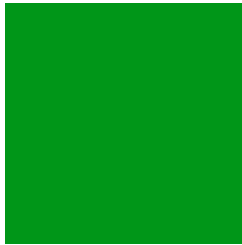


0.0846, 0.3408, 0.1651



# Previews

## White Background



This preview shows how the Yxy color 21.8786, 0.2956, 0.5842 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 21.8786, 0.2956, 0.5842 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 21.8786, 0.2956, 0.5842**

## **Background**



This preview shows how black text looks on a background with the Yxy color 21.8786, 0.2956, 0.5842.



This preview shows how white text looks on a background with the Yxy color 21.8786, 0.2956, 0.5842.

# 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

21.8786, 0.2956, 0.5842

### Protanopia

21.6735, 0.4338, 0.4831

### Deuteranopia

21.6493, 0.4524, 0.4444



## Tritanopia

22.0473, 0.2373, 0.3075

# Trichromacy



## Original Color

21.8786, 0.2956, 0.5842



## Protanomaly

20.2171, 0.3591, 0.5383



## Deuteranomaly

19.4428, 0.3690, 0.5118



## Tritanomaly

21.4176, 0.2596, 0.4150

# Monochromacy



## Original Color

21.8786, 0.2956, 0.5842



## Achromatopsia

10.4616, 0.3127, 0.3290



## Achromatomaly

12.8931, 0.2970, 0.4478

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.8786, 0.2956, 0.5842 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, 150, 24)` looks like.

```
.text, #text, p{  
    color:rgb(0, 150, 24)  
}
```

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, 150, 24) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 150, 24) }
```

## Border

The CSS property to change the border of an element to Yxy 21.8786, 0.2956, 0.5842 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, 150, 24) }
```

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

```
.border{ border-color:rgb(0, 150, 24) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 150, 24)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 150, 24); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 150, 24);  
box-shadow:4px 4px 4px 4px rgb(0, 150, 24)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 21.8786, 0.2956, 0.5842 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 150, 24) }
```

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

```
.background{ background-color: rgb(0, 150,  
24) }
```

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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