

# Converting Colors

$Y_{xy}(24.5676, 0.2953, 0.5830)$

Have a look what the booklet for  
Yxy(24.5676, 0.2953, 0.5830)  
contains.

<b>Yxy(24.5329, 0.2953, 0.5831)</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**

**Yxy(24.5329, 0.2953, 0.5831)**

# Conversions

## Conversions Part 1

Format	Color
Hex	009E1B
RGB	0, 158, 27
RGB Percent	0%, 62%, 11%
CMY	1.0000, 0.3804, 0.8942
CMYK	1.00, 0.00, 0.83, 0.38
HSL	130°, 100%, 31%
HSV	130°, 100%, 62%
XYZ	12.4242, 24.5329, 5.1161
YIQ	95.8240, -52.1170, -74.2370

# Conversions

## Conversions Part 2

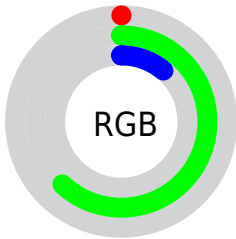
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 135, 158
Decimal	40475
CIELab	56.62, -59.25, 53.03
CIELCh	57, 79.519, 138.170
Yxy	24.5329, 0.2953, 0.5831
Android (android.graphics.Color)	4278230555 (0xFF009E1B)
YUV	95.8240, -33.9302, -84.0376
Hunter-Lab	49.5307, -41.9040, 28.5473

# Details

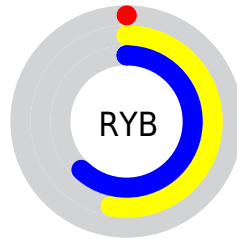
The Yxy color **24.5329, 0.2953, 0.5831** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **8.9087, 0.3688, 0.1805**, and the grayscale version is **11.7458, 0.3127, 0.3290**.

A 20% lighter version of the original color is **50.9418, 0.3075, 0.5235**, and **10.1032, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **24.5341, 0.2953, 0.5831**, and if you desaturate by 10%, it is **24.7173, 0.2938, 0.5663**.

# Distribution



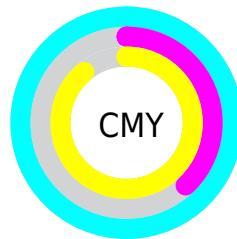
- Red (0%)
- Green (62%)
- Blue (11%)



- Red (0%)
- Yellow (53%)
- Blue (62%)



- Cyan (100%)
- Magenta (0%)
- Yellow (83%)
- Black (38%)




- Cyan (100%)
- Magenta (38%)
- Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 24.5329, 0.2953, 0.5831 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 24.5329, 0.2953, 0.5831 by changing the saturation by 10% instead.





 24.5329, 0.2953,  
0.5831


 24.5329, 0.2953,  
0.5831


275.5037, 0.3157,  
0.4330


 15.7294, 0.2833,  
0.6269


 50.8984, 0.3071,  
0.5232


 9.3329, 0.2627,  
0.6855


 69.2292, 0.3100,  
0.5022


 4.9589, 0.2281,  
0.7719

 91.5046, 0.3120,  
0.4851

 2.2232, 0.1196,  
0.8804

 118.1089, 0.3134,  
0.4710

 0.7326, 0.0000,  
1.0000

 149.4266, 0.3143,  
0.4592

 0.0000, 0.0000,  
0.0000

 185.8420, 0.3149,

0.4491

227.7396, 0.3154,  
0.4405

■ 24.5329, 0.2953,  
0.5831

■ 24.5329, 0.2953,  
0.5831

■ 24.5341, 0.2953,  
0.5831

■ 24.7173, 0.2938,  
0.5663

■ 25.0146, 0.2927,  
0.5440

■ 25.4657, 0.2927,  
0.5173

■ 26.0887, 0.2938,  
0.4878

■ 26.8988, 0.2959,  
0.4573

■ 27.9096, 0.2987,  
0.4274

■ 29.1335, 0.3020,  
0.3991

■ 30.5819, 0.3055,  
0.3731

■ 32.2652, 0.3091,  
0.3497

# Harmonies

## Analogous

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



24.5329, 0.4100, 0.5525



24.5329, 0.2953, 0.5831



24.5329, 0.1902, 0.4718

# Triad

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



24.5329, 0.2953, 0.5831



24.5329, 0.1255, 0.1550



24.5329, 0.5380, 0.2959

# Complementary

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



24.5329, 0.2953, 0.5831



8.9087, 0.3688, 0.1805

# 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.



24.5329, 0.4184, 0.2261



24.5329, 0.2953, 0.5831



24.5329, 0.1788, 0.1496

# Square

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



24.5329, 0.2953, 0.5831



24.5329, 0.1083, 0.1990



24.5329, 0.2785, 0.1742



24.5329, 0.5674, 0.3732



# Rectangle

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



24.5329, 0.2953, 0.5831



24.5329, 0.1419, 0.3559



24.5329, 0.2785, 0.1742



24.5329, 0.5059, 0.2715

# Sweetspot

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



24.5341, 0.2953, 0.5831



52.7622, 0.3018, 0.4007



29.3340, 0.3905, 0.5281



11.6875, 0.3005, 0.4117



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.



24.5341, 0.2953, 0.5831



44.5309, 0.2960, 0.5854



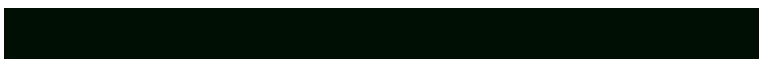
25.4819, 0.2557, 0.4403



7.4186, 0.3094, 0.3481



19.6525, 0.2950, 0.5820



0.3559, 0.2789, 0.5241



# Inverse Universe

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



8.9087, 0.3688, 0.1805



16.1514, 0.3699, 0.1811



7.5235, 0.5611, 0.2865



6.7351, 0.3162, 0.3106



7.1396, 0.3683, 0.1803

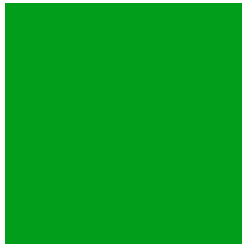


0.1324, 0.3466, 0.1683



# Previews

## White Background



This preview shows how the Yxy color 24.5329, 0.2953, 0.5831 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

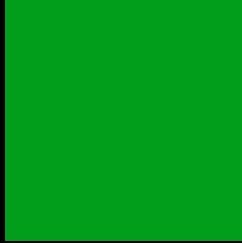
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 24.5329, 0.2953, 0.5831 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

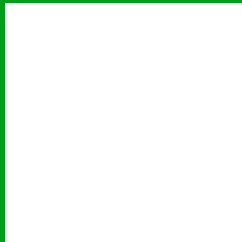
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 24.5329, 0.2953, 0.5831**

## Background



This preview shows how black text looks on a background with the Yxy color 24.5329, 0.2953, 0.5831.



This preview shows how white text looks on a background with the Yxy color 24.5329, 0.2953, 0.5831.

# 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

24.5329, 0.2953, 0.5831

### Protanopia

24.0575, 0.4349, 0.4810

### Deuteranopia

24.0478, 0.4523, 0.4437



## Tritanopia

24.5289, 0.2367, 0.3066

# Trichromacy



## Original Color

24.5329, 0.2953, 0.5831



## Protanomaly

22.2482, 0.3594, 0.5364



## Deuteranomaly

21.7870, 0.3692, 0.5107



## Tritanomaly

23.7732, 0.2589, 0.4134

# Monochromacy



## Original Color

24.5329, 0.2953, 0.5831



## Achromatopsia

11.6971, 0.3127, 0.3290



## Achromatomaly

14.6407, 0.2965, 0.4494

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 24.5329, 0.2953, 0.5831 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, 158, 27)` looks like.

```
.text, #text, p{  
    color:rgb(0, 158, 27)  
}
```

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, 158, 27) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 158, 27) }
```

## Border

The CSS property to change the border of an element to Yxy 24.5329, 0.2953, 0.5831 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, 158, 27) }
```

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

```
.border{ border-color:rgb(0, 158, 27) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 158, 27)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 158, 27); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 158, 27);  
box-shadow:4px 4px 4px 4px rgb(0, 158, 27)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 24.5329, 0.2953, 0.5831 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 158, 27) }
```

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

```
.background{ background-color: rgb(0, 158,  
27) }
```

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