

Converting Colors

$Y_{xy}(50.0845, 0.3000, 0.5783)$

Have a look what the booklet for
Yxy(50.0845, 0.3000, 0.5783)
contains.

Yxy(50.2122, 0.2999, 0.5780)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(50.2122, 0.2999, 0.5780)

Conversions

Conversions Part 1

Format	Color
Hex	26D92B
RGB	38, 217, 43
RGB Percent	15%, 85%, 17%
CMY	0.8504, 0.1490, 0.8312
CMYK	0.82, 0.00, 0.80, 0.15
HSL	122°, 70%, 50%
HSV	122°, 82%, 85%
XYZ	26.0530, 50.2122, 10.6071
YIQ	143.6430, -50.8300, -92.0620

Conversions

Conversions Part 2

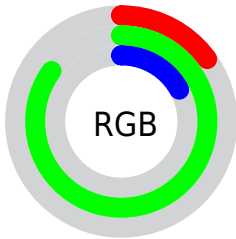
Format	Color
RYB	38, 212, 217
Decimal	2545963
CIELab	76.20, -72.62, 66.94
CIELCh	76, 98.761, 137.329
Yxy	50.2122, 0.2999, 0.5780
Android (android.graphics.Color)	4280736043 (0xFF26D92B)
YUV	143.6430, -49.6170, -92.6489
Hunter-Lab	70.8606, -58.3776, 40.7273

Details

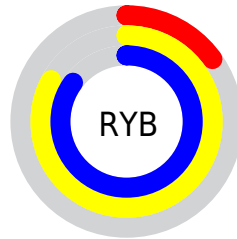
The Yxy color **50.2122, 0.2999, 0.5780** is a dark color, and the websafe version is hex **00CC00**. The color can be described as dark washed green. A complement of this color would be **20.9072, 0.3262, 0.1655**, and the grayscale version is **27.9786, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.3508, 0.3103, 0.5187**, and **25.1416, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **49.7964, 0.2997, 0.5927**, and if you desaturate by 10%, it is **50.9526, 0.3006, 0.5550**.

Distribution



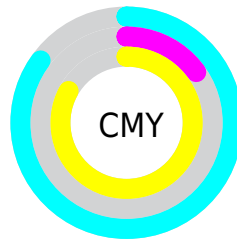
- Red (15%)
- Green (85%)
- Blue (17%)



- Red (15%)
- Yellow (83%)
- Blue (85%)



- Cyan (82%)
- Magenta (0%)
- Yellow (80%)
- Black (15%)





- Cyan (85%)
- Magenta (15%)
- Yellow (83%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 50.2122, 0.2999, 0.5780 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 50.2122, 0.2999, 0.5780 by changing the saturation by 10% instead.


 50.2122, 0.2999,
0.5780


 50.2122, 0.2999,
0.5780

387.4952, 0.3170,
0.4462

 35.5820, 0.2917,
0.6106


 90.4892, 0.3090,
0.5297


 24.1116, 0.2789,
0.6511


 116.9048, 0.3116,
0.5115

 15.4164, 0.2584,
0.7012


 148.0177, 0.3134,
0.4962

 9.1121, 0.2280,
0.7720

 184.2123, 0.3146,
0.4832

 4.8144, 0.1709,
0.8291

 225.8729, 0.3155,
0.4720

 2.1388, 0.0000,
1.0000

 273.3840, 0.3162,

 0.6863, 0.0000,

0.4623

1.0000

327.1300, 0.3167,
0.4538

■ 0.0000, 0.0000,
0.0000

■ 50.2122, 0.2999,
0.5780

■ 50.2122, 0.2999,
0.5780

■ 49.7964, 0.2997,
0.5927

■ 50.9526, 0.3006,
0.5550


■ 49.6375, 0.2996,
0.5986


■ 52.0585, 0.3018,
0.5254


■ 53.5715, 0.3034,
0.4917


■ 55.5259, 0.3052,
0.4564

■ 57.9524, 0.3071,
0.4219

 60.8790, 0.3089,
0.3897

 64.3315, 0.3107,
0.3605

 68.3339, 0.3123,
0.3347

 72.9088, 0.3138,
0.3123

Harmonies

Analogous

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



50.2122, 0.4128, 0.5470



50.2122, 0.2999, 0.5780



50.2122, 0.1954, 0.4729

Triad

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



50.2122, 0.2999, 0.5780



50.2122, 0.1272, 0.1584



50.2122, 0.5311, 0.2950

Complementary

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



50.2122, 0.2999, 0.5780



20.9072, 0.3262, 0.1655

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.



50.2122, 0.4124, 0.2262



50.2122, 0.2999, 0.5780



50.2122, 0.1790, 0.1520

Square

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



50.2122, 0.2999, 0.5780



50.2122, 0.1112, 0.2035



50.2122, 0.2760, 0.1755



50.2122, 0.5635, 0.3716

Rectangle

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



50.2122, 0.2999, 0.5780



50.2122, 0.1465, 0.3603



50.2122, 0.2760, 0.1755



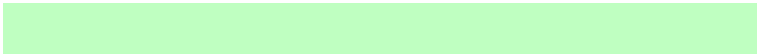
50.2122, 0.4988, 0.2710

Sweetspot

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



50.2143, 0.2999, 0.5780



86.4786, 0.3084, 0.3985



64.0642, 0.4120, 0.4990



18.1877, 0.3078, 0.4099



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

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



50.2143, 0.2999, 0.5780



71.5571, 0.2997, 0.5983



51.6664, 0.2672, 0.4651



14.6120, 0.3112, 0.3525



30.0511, 0.2995, 0.5981



1.9489, 0.2979, 0.5925

Inverse Universe

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



20.9072, 0.3262, 0.1655



28.0997, 0.3279, 0.1582



17.6182, 0.4611, 0.2463



13.2684, 0.3142, 0.3066



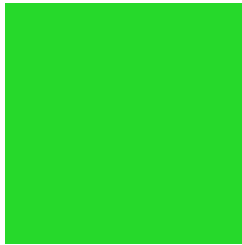
11.7821, 0.3278, 0.1579



0.7653, 0.3266, 0.1573

Previews

White Background



This preview shows how the Yxy color 50.2122, 0.2999, 0.5780 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 50.2122, 0.2999, 0.5780 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

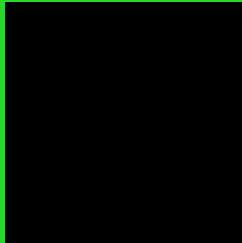
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 50.2122, 0.2999, 0.5780

Background



This preview shows how black text looks on a background with the Yxy color 50.2122, 0.2999, 0.5780.



This preview shows how white text looks on a background with the Yxy color 50.2122, 0.2999, 0.5780.

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

50.2122, 0.2999, 0.5780

Protanopia

49.3636, 0.4344, 0.4803

Deuteranopia

49.1157, 0.4534, 0.4437



Tritanopia

49.7898, 0.2378, 0.3068

Trichromacy



Original Color

50.2122, 0.2999, 0.5780



Protanomaly

46.8240, 0.3692, 0.5277



Deuteranomaly

45.6565, 0.3797, 0.5033



Tritanomaly

48.4546, 0.2636, 0.4114

Monochromacy



Original Color

50.2122, 0.2999, 0.5780



Achromatopsia

27.8894, 0.3127, 0.3290



Achromatomaly

33.2515, 0.3067, 0.4403

CSS Examples

Text

The CSS property to change the color of the text to Yxy 50.2122, 0.2999, 0.5780 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(38, 217, 43)` looks like.

```
.text, #text, p{  
    color:rgb(38, 217, 43)  
}
```

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(38, 217, 43) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(38, 217, 43) }
```

Border

The CSS property to change the border of an element to Yxy 50.2122, 0.2999, 0.5780 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(38, 217, 43) }
```

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

```
.border{ border-color:rgb(38, 217, 43) }
```

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

Here you see how a box with a 4 pixel rgb(38, 217, 43) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(38, 217, 43); -webkit-box-  
shadow:4px 4px 4px 4px rgb(38, 217, 43);  
box-shadow:4px 4px 4px 4px rgb(38, 217,  
43) }
```


Background

The CSS property to change the background color of an element to Yxy 50.2122, 0.2999, 0.5780 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(38, 217, 43) }
```

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

```
.background{ background-color: rgb(38, 217,  
43) }
```

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