

Converting Colors

$Y_{xy}(48.1091, 0.3011, 0.5768)$

Have a look what the booklet for
Yxy(48.1091, 0.3011, 0.5768)
contains.

Yxy(48.2479, 0.3011, 0.5772)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(48.2479, 0.3011, 0.5772)

Conversions

Conversions Part 1

Format	Color
Hex	2AD52A
RGB	42, 213, 42
RGB Percent	16%, 84%, 16%
CMY	0.8350, 0.1647, 0.8354
CMYK	0.80, 0.00, 0.80, 0.16
HSL	120°, 67%, 50%
HSV	120°, 80%, 84%
XYZ	25.1688, 48.2479, 10.1729
YIQ	142.3770, -47.0250, -89.4330

Conversions

Conversions Part 2

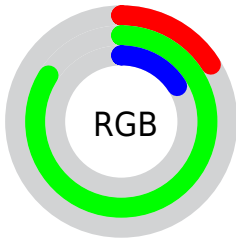
Format	Color
RYB	42, 213, 213
Decimal	2807082
CIELab	74.98, -71.08, 66.11
CIELCh	75, 97.073, 137.074
Yxy	48.2479, 0.3011, 0.5772
Android (android.graphics.Color)	4280997162 (0xFF2AD52A)
YUV	142.3770, -49.4859, -88.0306
Hunter-Lab	69.4607, -56.8775, 39.9392

Details

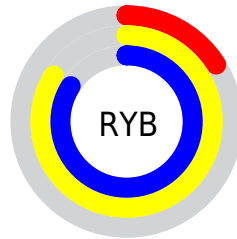
The Yxy color **48.2479, 0.3011, 0.5772** is a dark color, and the websafe version is hex **00CC00**. The color can be described as dark washed green. A complement of this color would be **20.5872, 0.3203, 0.1639**, and the grayscale version is **27.4303, 0.3127, 0.3290**.

A 20% lighter version of the original color is **76.4012, 0.3112, 0.5195**, and **24.1139, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **47.7992, 0.3004, 0.5925**, and if you desaturate by 10%, it is **49.0198, 0.3022, 0.5534**.

Distribution



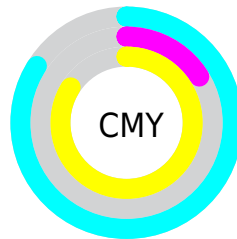
- Red (16%)
- Green (84%)
- Blue (16%)



- Red (16%)
- Yellow (84%)
- Blue (84%)



- Cyan (80%)
- Magenta (0%)
- Yellow (80%)
- Black (16%)




- Cyan (84%)
- Magenta (16%)
- Yellow (84%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 48.2479, 0.3011, 0.5772 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 48.2479, 0.3011, 0.5772 by changing the saturation by 10% instead.


 48.2479, 0.3011,
0.5772

 48.2479, 0.3011,
0.5772


379.7739, 0.3176,
0.4451

 34.0232, 0.2929,
0.6101


 87.5734, 0.3101,
0.5286


 22.9115, 0.2800,
0.6511


 113.4430, 0.3125,
0.5104

 14.5281, 0.2592,
0.7022


 143.9631, 0.3142,
0.4951

 8.4889, 0.2274,
0.7726

 179.5180, 0.3155,
0.4820

 4.4093, 0.1686,
0.8314

 220.4921, 0.3163,
0.4708

 1.9051, 0.0000,
1.0000

 267.2699, 0.3169,

 0.5514, 0.0000,

0.4611

1.0000

320.2357, 0.3173,
0.4526

■ 0.0000, 0.0000,
0.0000

■ 48.2479, 0.3011,
0.5772

■ 48.2479, 0.3011,
0.5772

■ 47.7992, 0.3004,
0.5925

■ 49.0198, 0.3022,
0.5534

■ 47.5900, 0.3000,
0.6000

■ 50.1531, 0.3037,
0.5228

■ 51.6873, 0.3053,
0.4881

■ 53.6550, 0.3070,
0.4522

■ 56.0856, 0.3086,
0.4172

■ 59.0059, 0.3101,
0.3847

■ 62.4406, 0.3115,
0.3555

■ 66.4129, 0.3127,
0.3297

■ 70.9444, 0.3137,
0.3073

Harmonies

Analogous

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



48.2479, 0.4137, 0.5458



48.2479, 0.3011, 0.5772



48.2479, 0.1966, 0.4736

Triad

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



48.2479, 0.3011, 0.5772



48.2479, 0.1274, 0.1590



48.2479, 0.5296, 0.2946

Complementary

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



48.2479, 0.3011, 0.5772



20.5872, 0.3203, 0.1639

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.



48.2479, 0.4109, 0.2260



48.2479, 0.3011, 0.5772



48.2479, 0.1788, 0.1524

Square

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



48.2479, 0.3011, 0.5772



48.2479, 0.1118, 0.2046



48.2479, 0.2751, 0.1756



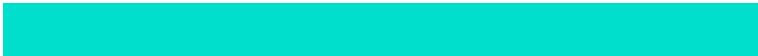
48.2479, 0.5628, 0.3711

Rectangle

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



48.2479, 0.3011, 0.5772



48.2479, 0.1475, 0.3616



48.2479, 0.2751, 0.1756



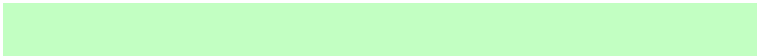
48.2479, 0.4971, 0.2706

Sweetspot

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



48.2499, 0.3011, 0.5772



86.8543, 0.3095, 0.3972



60.4808, 0.4155, 0.4933



18.2567, 0.3090, 0.4090



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.



48.2499, 0.3011, 0.5772



71.6092, 0.3001, 0.5979



49.5519, 0.2699, 0.4705



13.8964, 0.3116, 0.3531



29.0699, 0.3000, 0.6000



1.7535, 0.3001, 0.5999

Inverse Universe

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



20.5872, 0.3203, 0.1639



28.6708, 0.3207, 0.1550



17.4206, 0.4450, 0.2398



12.6323, 0.3138, 0.3060



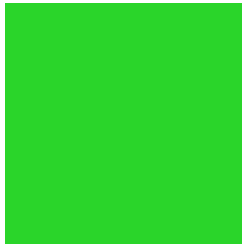
11.5630, 0.3208, 0.1541



0.6976, 0.3208, 0.1541

Previews

White Background



This preview shows how the Yxy color 48.2479, 0.3011, 0.5772 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 48.2479, 0.3011, 0.5772 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

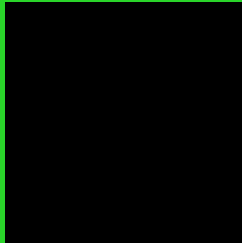
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 48.2479, 0.3011, 0.5772

Background



This preview shows how black text looks on a background with the Yxy color 48.2479, 0.3011, 0.5772.



This preview shows how white text looks on a background with the Yxy color 48.2479, 0.3011, 0.5772.

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

48.2479, 0.3011, 0.5772

Protanopia

47.1043, 0.4349, 0.4800

Deuteranopia

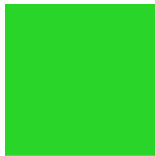
47.2670, 0.4532, 0.4436



Tritanopia

47.7300, 0.2385, 0.3064

Trichromacy



Original Color

48.2479, 0.3011, 0.5772



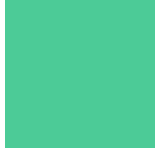
Protanomaly

44.8281, 0.3701, 0.5271



Deuteranomaly

43.8098, 0.3818, 0.5016



Tritanomaly

46.4827, 0.2646, 0.4111

Monochromacy



Original Color

48.2479, 0.3011, 0.5772



Achromatopsia

27.0498, 0.3127, 0.3290



Achromatomaly

32.1100, 0.3076, 0.4380

CSS Examples

Text

The CSS property to change the color of the text to Yxy 48.2479, 0.3011, 0.5772 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(42, 213, 42)` looks like.

```
.text, #text, p{  
    color:rgb(42, 213, 42)  
}
```

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(42, 213, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 213, 42) }
```

Border

The CSS property to change the border of an element to Yxy 48.2479, 0.3011, 0.5772 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(42, 213, 42) }
```

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

```
.border{ border-color:rgb(42, 213, 42) }
```

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

Here you see how a box with a 4 pixel rgb(42, 213, 42) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 213, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 213, 42);  
box-shadow:4px 4px 4px 4px rgb(42, 213,  
42) }
```


Background

The CSS property to change the background color of an element to Yxy 48.2479, 0.3011, 0.5772 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 213, 42) }
```

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

```
.background{ background-color: rgb(42, 213,  
42) }
```

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