

# Converting Colors

$Y_{xy}(50.7227, 0.3250, 0.5002)$

Have a look what the booklet for  
Yxy(50.7227, 0.3250, 0.5002)  
contains.

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**Color**

**Yxy(50.6242, 0.3254, 0.4998)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7CD15A
RGB	124, 209, 90
RGB Percent	49%, 82%, 35%
CMY	0.5137, 0.1804, 0.6471
CMYK	0.41, 0.00, 0.57, 0.18
HSL	103°, 56%, 59%
HSV	103°, 57%, 82%
XYZ	32.9594, 50.6242, 17.7053
YIQ	170.0190, -12.4610, -55.0290

# Conversions

## Conversions Part 2

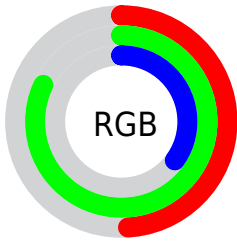
Format	Color
<a href="#">RYB</a>	<a href="#">90, 209, 175</a>
Decimal	<a href="#">8180058</a>
CIELab	<a href="#">76.45, -47.22, 50.23</a>
CIELCh	<a href="#">76, 68.942, 133.227</a>
Yxy	<a href="#">50.6242, 0.3254, 0.4998</a>
Android (android.graphics.Color)	<a href="#">4286370138</a> ( <a href="#">0xFF7CD15A</a> )
YUV	<a href="#">170.0190, -39.4494, -40.3587</a>
Hunter-Lab	<a href="#">71.1507, -41.8264, 35.0516</a>

# Details

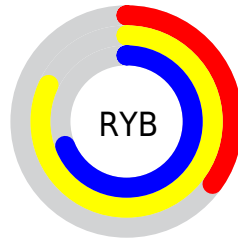
The Yxy color **50.6242, 0.3254, 0.4998** is a dark color, and the websafe version is hex **66CC66**. The color can be described as middle muted chartreuse. A complement of this color would be **21.0270, 0.2818, 0.1805**, and the grayscale version is **40.4159, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.3269, 0.3284, 0.4578**, and **24.4381, 0.3202, 0.5509** is the 20% darker color. If you saturate the color by 10%, you get **49.2898, 0.3245, 0.5297**, and if you desaturate by 10%, it is **52.2313, 0.3250, 0.4676**.

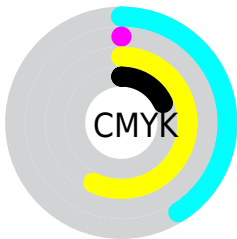
# Distribution



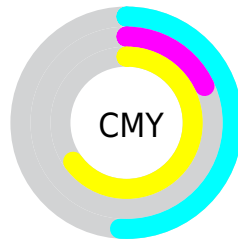
- Red (49%)
- Green (82%)
- Blue (35%)



- Red (35%)
- Yellow (82%)
- Blue (69%)



- Cyan (41%)
- Magenta (0%)
- Yellow (57%)
- Black (18%)




- Cyan (51%)
- Magenta (18%)
- Yellow (65%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.6242, 0.3254, 0.4998 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 50.6242, 0.3254, 0.4998 by changing the saturation by 10% instead.




 50.6242, 0.3254,  
0.4998

 50.6242, 0.3254,  
0.4998

389.1020, 0.3241,  
0.4106

 35.9096, 0.3238,  
0.5224


 91.0990, 0.3263,  
0.4669


 24.3644, 0.3204,  
0.5513


 117.6281, 0.3262,  
0.4547

 15.6042, 0.3138,  
0.5889


 148.8641, 0.3260,  
0.4444

 9.2445, 0.3005,  
0.6386

 185.1914, 0.3257,  
0.4356

 4.9010, 0.2796,  
0.7204

226.9944, 0.3253,  
0.4280

 2.1893, 0.2090,  
0.7910

274.6576, 0.3249,

 0.7141, 0.0000,

0.4215

1.0000

328.5653, 0.3245,  
0.4157

0.0000, 0.0000,  
0.0000

50.6242, 0.3254,  
0.4998

50.6242, 0.3254,  
0.4998

49.2898, 0.3245,  
0.5297

52.2313, 0.3250,  
0.4676

48.2054, 0.3222,  
0.5552

54.1193, 0.3234,  
0.4349

47.3551, 0.3185,  
0.5746

56.3039, 0.3211,  
0.4032

46.7166, 0.3138,  
0.5871

58.7978, 0.3182,  
0.3734

46.5548, 0.3124,  
0.5901

61.6128, 0.3150,  
0.3463

■ 64.7601, 0.3117,  
0.3218

■ 68.2504, 0.3084,  
0.3001

■ 71.9515, 0.3066,  
0.2829

■ 74.0821, 0.3148,  
0.2841

# Harmonies

## Analogous

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



50.6242, 0.4101, 0.4870



50.6242, 0.3254, 0.4998



50.6242, 0.2419, 0.4382

# Triad

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



50.6242, 0.3254, 0.4998



50.6242, 0.1665, 0.2043



50.6242, 0.4577, 0.3019

# Complementary

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



50.6242, 0.3254, 0.4998



21.0270, 0.2818, 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.



50.6242, 0.3712, 0.2466



50.6242, 0.3254, 0.4998



50.6242, 0.2057, 0.1926

# Square

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



50.6242, 0.3254, 0.4998



50.6242, 0.1584, 0.2496



50.6242, 0.2767, 0.2080



50.6242, 0.4959, 0.3654

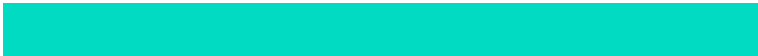


# Rectangle

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



50.6242, 0.3254, 0.4998



50.6242, 0.1987, 0.3692



50.6242, 0.2767, 0.2080



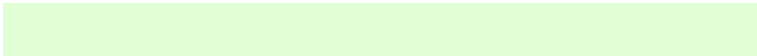
50.6242, 0.4325, 0.2822

# Sweetspot

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



50.6264, 0.3254, 0.4998



92.1099, 0.3183, 0.3742



44.2961, 0.4173, 0.4285



19.5371, 0.3189, 0.3800



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.



50.6264, 0.3254, 0.4998



76.9619, 0.3242, 0.5348



48.9857, 0.2924, 0.4767



13.3676, 0.3158, 0.3527



28.7472, 0.3133, 0.5894



1.6478, 0.3274, 0.5782



# Inverse Universe

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



21.0270, 0.2818, 0.1805



26.2350, 0.2729, 0.1545



24.3784, 0.3465, 0.2181



11.8322, 0.3093, 0.3058



6.8449, 0.2501, 0.1152



0.4219, 0.2636, 0.1226



# Previews

## White Background



This preview shows how the Yxy color 50.6242, 0.3254, 0.4998 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

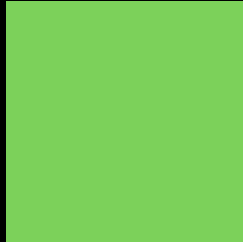
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.6242, 0.3254, 0.4998 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 50.6242, 0.3254, 0.4998**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.6242, 0.3254, 0.4998.



This preview shows how white text looks on a background with the Yxy color 50.6242, 0.3254, 0.4998.

# 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

50.6242, 0.3254, 0.4998

### Protanopia

50.0009, 0.4105, 0.4505

### Deuteranopia

49.9450, 0.4267, 0.4183



## Tritanopia

50.2531, 0.2652, 0.3078

# Trichromacy



## Original Color

50.6242, 0.3254, 0.4998



## Protanomaly

49.4989, 0.3755, 0.4700



## Deuteranomaly

48.7295, 0.3860, 0.4482



## Tritanomaly

49.9188, 0.2881, 0.3757

# Monochromacy



## Original Color

50.6242, 0.3254, 0.4998



## Achromatopsia

40.1978, 0.3127, 0.3290



## Achromatomaly

42.9764, 0.3198, 0.3917

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.6242, 0.3254, 0.4998 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(124, 209, 90)` looks like.

```
.text, #text, p{  
    color:rgb(124, 209, 90)  
}
```

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(124, 209, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(124, 209, 90) }
```

## Border

The CSS property to change the border of an element to Yxy 50.6242, 0.3254, 0.4998 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(124, 209, 90) }
```

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

```
.border{ border-color:rgb(124, 209, 90) }
```

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

Here you see how a box with a 4 pixel rgb(124, 209, 90) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(124, 209, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(124, 209, 90);  
box-shadow:4px 4px 4px 4px rgb(124, 209,  
90) }
```



# Background

The CSS property to change the background color of an element to Yxy 50.6242, 0.3254, 0.4998 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(124, 209, 90) }
```

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

```
.background{ background-color: rgb(124,  
209, 90) }
```

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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