

# Converting Colors

$Y_{xy}(45.1592, 0.3261, 0.5793)$

Have a look what the booklet for  
Yxy(45.1592, 0.3261, 0.5793)  
contains.

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**Color**

**Yxy(45.1642, 0.3262, 0.5792)**

# Conversions

## Conversions Part 1

Format	Color
Hex	56CC00
RGB	86, 204, 0
RGB Percent	34%, 80%, 0%
CMY	0.6624, 0.2000, 1.0000
CMYK	0.58, 0.00, 1.00, 0.20
HSL	95°, 100%, 40%
HSV	95°, 100%, 80%
XYZ	25.4361, 45.1642, 7.3766
YIQ	145.4620, -4.8440, -88.4600

# Conversions

## Conversions Part 2

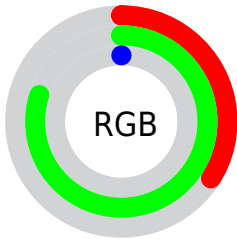
Format	Color
<b>RYB</b>	0, 204, 118
Decimal	5688320
CIELab	73.00, -61.41, 71.92
CIELCh	73, 94.567, 130.494
Yxy	45.1642, 0.3262, 0.5792
Android (android.graphics.Color)	4283878400 (0xFF56CC00)
YUV	145.4620, -71.7128, -52.1482
Hunter-Lab	67.2043, -50.0474, 40.5351

# Details

The Yxy color **45.1642, 0.3262, 0.5792** is a dark color, and the websafe version is hex **66CC00**. The color can be described as dark washed green. A complement of this color would be **8.2063, 0.2178, 0.0973**, and the grayscale version is **28.8230, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.4251, 0.3335, 0.5284**, and **21.4949, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **45.1658, 0.3262, 0.5792**, and if you desaturate by 10%, it is **45.8254, 0.3315, 0.5679**.

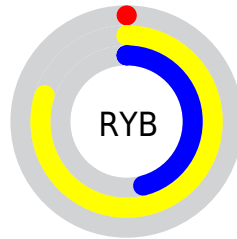
# Distribution



Red (34%)

Green (80%)

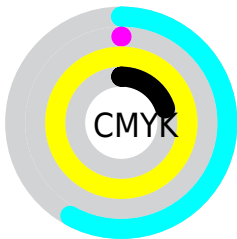
Blue (0%)



Red (0%)

Yellow (80%)

Blue (46%)

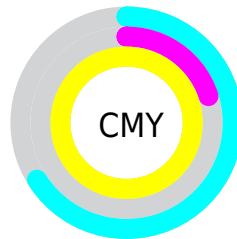


Cyan (58%)

Magenta (0%)

Yellow (100%)

Black (20%)



Cyan (66%)

Magenta (20%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.1642, 0.3262, 0.5792 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 45.1642, 0.3262, 0.5792 by changing the saturation by 10% instead.




 45.1642, 0.3262,  
0.5792

 45.1642, 0.3262,  
0.5792


367.4382, 0.3320,  
0.4480


 31.5868, 0.3196,  
0.6105


 82.9668, 0.3320,  
0.5318


 21.0461, 0.3079,  
0.6484


 107.9607, 0.3331,  
0.5137


 13.1577, 0.2908,  
0.7010


 137.5289, 0.3335,  
0.4984

 7.5372, 0.2532,  
0.7468

 172.0558, 0.3335,  
0.4853

 3.8003, 0.1955,  
0.8045

 211.9258, 0.3333,  
0.4740

 1.5625, 0.0000,  
1.0000

 257.5232, 0.3329,

 0.3321, 0.0000,

0.4642

1.0000

309.2326, 0.3325,  
0.4556

■ 0.0000, 0.0000,  
0.0000

■ 45.1642, 0.3262,  
0.5792

■ 45.1642, 0.3262,  
0.5792

■ 45.1658, 0.3262,  
0.5792

■ 45.8254, 0.3315,  
0.5679

■ 46.6362, 0.3354,  
0.5513

■ 47.6211, 0.3375,  
0.5289

■ 48.7940, 0.3376,  
0.5020

■ 50.1669, 0.3359,  
0.4723

■ 51.7506, 0.3327,  
0.4414

■ 53.5550, 0.3284,  
0.4108

■ 55.5893, 0.3235,  
0.3815

■ 57.8622, 0.3182,  
0.3541

# Harmonies

## Analogous

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



45.1642, 0.4371, 0.5278



45.1642, 0.3262, 0.5792



45.1642, 0.2176, 0.5062

# Triad

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



45.1642, 0.3262, 0.5792



45.1642, 0.1217, 0.1657



45.1642, 0.5085, 0.2790

# Complementary

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



45.1642, 0.3262, 0.5792



8.2063, 0.2178, 0.0973

# 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.



45.1642, 0.3795, 0.2133



45.1642, 0.3262, 0.5792



45.1642, 0.1644, 0.1516

# Square

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



45.1642, 0.3262, 0.5792



45.1642, 0.1133, 0.2223



45.1642, 0.2501, 0.1685



45.1642, 0.5631, 0.3538



# Rectangle

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



45.1642, 0.3262, 0.5792



45.1642, 0.1618, 0.3979



45.1642, 0.2501, 0.1685



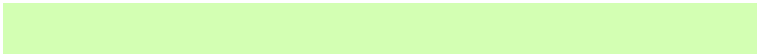
45.1642, 0.4705, 0.2556

# Sweetspot

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



45.1661, 0.3262, 0.5792



88.5706, 0.3286, 0.4120



25.2363, 0.5221, 0.4236



18.6761, 0.3305, 0.4250



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.



45.1661, 0.3262, 0.5792



74.6827, 0.3253, 0.5799



43.2146, 0.2989, 0.5962



12.7644, 0.3178, 0.3525



28.4813, 0.3272, 0.5784



1.5137, 0.3429, 0.5659



# Inverse Universe

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



8.2063, 0.2178, 0.0973



13.4608, 0.2166, 0.0967



16.5722, 0.3385, 0.1638



11.1588, 0.3072, 0.3057



5.2208, 0.2191, 0.0981

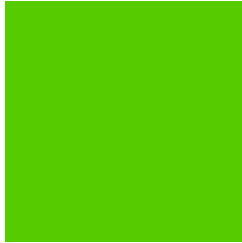


0.3134, 0.2386, 0.1088



# Previews

## White Background



This preview shows how the Yxy color 45.1642, 0.3262, 0.5792 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

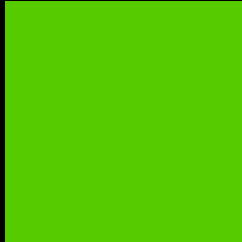
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.1642, 0.3262, 0.5792 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 45.1642, 0.3262, 0.5792**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.1642, 0.3262, 0.5792.



This preview shows how white text looks on a background with the Yxy color 45.1642, 0.3262, 0.5792.

# 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

45.1642, 0.3262, 0.5792

### Protanopia

44.2583, 0.4411, 0.4880

### Deuteranopia

44.3904, 0.4622, 0.4525



## Tritanopia

45.0862, 0.2519, 0.3077

# Trichromacy



## Original Color

45.1642, 0.3262, 0.5792



## Protanomaly

42.9116, 0.3931, 0.5261



## Deuteranomaly

42.5337, 0.4076, 0.5043



## Tritanomaly

43.7061, 0.2914, 0.4319

# Monochromacy



## Original Color

45.1642, 0.3262, 0.5792



## Achromatopsia

28.3149, 0.3127, 0.3290



## Achromatomaly

32.3302, 0.3348, 0.4533

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.1642, 0.3262, 0.5792 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(86, 204, 0)` looks like.

```
.text, #text, p{  
    color:rgb(86, 204, 0)  
}
```

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(86, 204, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(86, 204, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 45.1642, 0.3262, 0.5792 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(86, 204, 0) }
```

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

```
.border{ border-color:rgb(86, 204, 0) }
```

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

Here you see how a box with a 4 pixel rgb(86, 204, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(86, 204, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(86, 204, 0);  
box-shadow:4px 4px 4px 4px rgb(86, 204, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 45.1642, 0.3262, 0.5792 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(86, 204, 0) }
```

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

```
.background{ background-color: rgb(86, 204,  
0) }
```

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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