

# Converting Colors

$Y_{xy}(45.1357, 0.3930, 0.5261)$

Have a look what the booklet for  
Yxy(45.1357, 0.3930, 0.5261)  
contains.

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# Color

**Yxy(45.0481, 0.3936, 0.5256)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A3BF00
RGB	163, 191, 0
RGB Percent	64%, 75%, 0%
CMY	0.3608, 0.2510, 0.9988
CMYK	0.15, 0.00, 1.00, 0.25
HSL	69°, 100%, 38%
HSV	69°, 100%, 75%
XYZ	33.7347, 45.0481, 6.9252
YIQ	160.8540, 44.6230, -65.3370

# Conversions

## Conversions Part 2

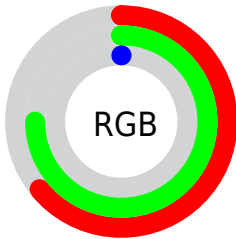
Format	Color
<b>RYB</b>	0, 191, 28
Decimal	10731264
CIELab	72.92, -29.28, 73.48
CIELCh	73, 79.102, 111.726
Yxy	45.0481, 0.3936, 0.5256
Android (android.graphics.Color)	4288921344 (0xFFA3BF00)
YUV	160.8540, -79.3010, 1.8820
Hunter-Lab	67.1179, -27.7390, 40.8650

# Details

The Yxy color **45.0481, 0.3936, 0.5256** is a dark color, and the websafe version is hex **99CC00**. A complement of this color would be **4.0198, 0.1559, 0.0633**, and the grayscale version is **35.9453, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.6452, 0.3865, 0.4924**, and **21.2411, 0.3798, 0.5366** is the 20% darker color. If you saturate the color by 10%, you get **45.0448, 0.3936, 0.5257**, and if you desaturate by 10%, it is **45.3974, 0.3939, 0.5193**.

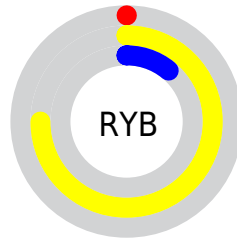
# Distribution



Red (64%)

Green (75%)

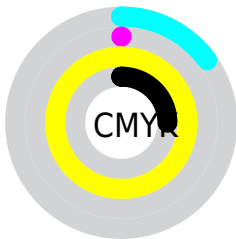
Blue (0%)



Red (0%)

Yellow (75%)

Blue (11%)

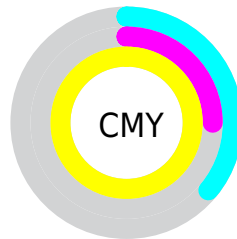


Cyan (15%)

Magenta (0%)

Yellow (100%)

Black (25%)



Cyan (36%)

Magenta (25%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.0481, 0.3936, 0.5256 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 45.0481, 0.3936, 0.5256 by changing the saturation by 10% instead.





 45.0481, 0.3936,  
0.5256


 45.0481, 0.3936,  
0.5256


366.9683, 0.3636,  
0.4296

 31.4953, 0.3961,  
0.5460

 82.7926, 0.3861,  
0.4928

 20.9763, 0.3963,  
0.5692


 107.7531, 0.3822,  
0.4798


 13.1067, 0.3963,  
0.6021


 137.2849, 0.3785,  
0.4685

 7.5021, 0.3777,  
0.6223

 171.7725, 0.3750,  
0.4586

 3.7780, 0.3484,  
0.6516

 211.6003, 0.3718,  
0.4500

 1.5502, 0.2938,  
0.7062

 257.1526, 0.3688,

 0.3237, 0.0000,

0.4424

1.0000

308.8138, 0.3661,  
0.4356

■ 0.0000, 0.0000,  
0.0000

■ 45.0481, 0.3936,  
0.5256

■ 45.0481, 0.3936,  
0.5256

■ 45.0448, 0.3936,  
0.5257

■ 45.3974, 0.3939,  
0.5193

■ 45.7983, 0.3922,  
0.5093

■ 46.2693, 0.3879,  
0.4948

■ 46.8190, 0.3811,  
0.4762

■ 47.4545, 0.3721,  
0.4543

■ 48.1821, 0.3615,  
0.4300

■ 49.0077, 0.3497,  
0.4045

■ 49.9364, 0.3374,  
0.3785

■ 50.9730, 0.3248,  
0.3531

# Harmonies

## Analogous

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



45.0481, 0.4792, 0.4618



45.0481, 0.3936, 0.5256



45.0481, 0.2940, 0.5257

# Triad

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



45.0481, 0.3936, 0.5256



45.0481, 0.1356, 0.2150



45.0481, 0.4140, 0.2494

# Complementary

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



45.0481, 0.3936, 0.5256



4.0198, 0.1559, 0.0633

# 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.



45.0481, 0.2987, 0.2003



45.0481, 0.3936, 0.5256



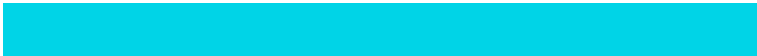
45.0481, 0.1545, 0.1779

# Square

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



45.0481, 0.3936, 0.5256



45.0481, 0.1502, 0.2993



45.0481, 0.2076, 0.1751



45.0481, 0.5050, 0.3140



# Rectangle

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



45.0481, 0.3936, 0.5256



45.0481, 0.2314, 0.4683



45.0481, 0.2076, 0.1751



45.0481, 0.3752, 0.2308

# Sweetspot

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



45.0502, 0.3936, 0.5256



87.6682, 0.3505, 0.4061



11.8046, 0.6281, 0.3393



19.1088, 0.3556, 0.4171



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

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



45.0502, 0.3936, 0.5256



80.5863, 0.3932, 0.5260



38.5753, 0.3204, 0.5837



11.0476, 0.3242, 0.3518



29.6282, 0.3939, 0.5254



1.1802, 0.4004, 0.5203



# Inverse Universe

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



4.0198, 0.1559, 0.0633



7.1182, 0.1550, 0.0628



7.8392, 0.2306, 0.1045



9.2908, 0.3006, 0.3054



2.6569, 0.1566, 0.0636



0.1258, 0.1753, 0.0740



# Previews

## White Background



This preview shows how the Yxy color 45.0481, 0.3936, 0.5256 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 45.0481, 0.3936, 0.5256 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

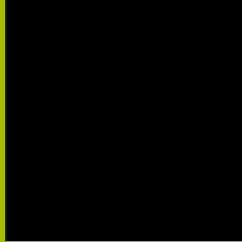
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.0481, 0.3936, 0.5256**

## Background



This preview shows how black text looks on a background with the Yxy color 45.0481, 0.3936, 0.5256.



This preview shows how white text looks on a background with the Yxy color 45.0481, 0.3936, 0.5256.

# 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

45.0481, 0.3936, 0.5256

### Protanopia

44.7968, 0.4410, 0.4880

### Deuteranopia

44.4933, 0.4662, 0.4557



## Tritanopia

45.1115, 0.3017, 0.3107

# Trichromacy



## Original Color

45.0481, 0.3936, 0.5256

## Protanomaly

44.5583, 0.4240, 0.5015

## Deuteranomaly

44.0550, 0.4402, 0.4822

## Tritanomaly

44.1563, 0.3529, 0.4135

# Monochromacy



## Original Color

45.0481, 0.3936, 0.5256

## Achromatopsia

35.6400, 0.3127, 0.3290

## Achromatomaly

38.1657, 0.3616, 0.4299

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.0481, 0.3936, 0.5256 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(163, 191, 0)` looks like.

```
.text, #text, p{  
    color:rgb(163, 191, 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(163, 191, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 191, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 45.0481, 0.3936, 0.5256 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(163, 191, 0) }
```

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

```
.border{ border-color:rgb(163, 191, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 191, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 191, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 191, 0);  
box-shadow:4px 4px 4px 4px rgb(163, 191,  
0) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.0481, 0.3936, 0.5256 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 191, 0) }
```

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

```
.background{ background-color: rgb(163,  
191, 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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