

# Converting Colors

$Y_{xy}(50.9215, 0.3012, 0.5991)$

Have a look what the booklet for  
Yxy(50.9215, 0.3012, 0.5991)  
contains.

<b>Yxy(50.7646, 0.3012, 0.5990)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

**Color**

**Yxy(50.7646, 0.3012, 0.5990)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0FDB00
RGB	15, 219, 0
RGB Percent	6%, 86%, 0%
CMY	0.9421, 0.1411, 0.9992
CMYK	0.93, 0.00, 1.00, 0.14
HSL	116°, 100%, 43%
HSV	116°, 100%, 86%
XYZ	25.5264, 50.7646, 8.4579
YIQ	133.0380, -51.2850, -111.3570

# Conversions

## Conversions Part 2

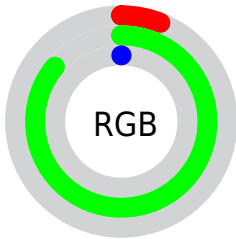
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 219, 204
Decimal	1039104
CIELab	76.54, -76.27, 74.21
CIELCh	77, 106.416, 135.785
Yxy	50.7646, 0.3012, 0.5990
Android (android.graphics.Color)	4279229184 (0xFF0FDB00)
YUV	133.0380, -65.5877, -103.5193
Hunter-Lab	71.2493, -60.7353, 42.8362

# Details

The Yxy color **50.7646, 0.3012, 0.5990** 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 **18.0187, 0.3041, 0.1449**, and the grayscale version is **23.7100, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.6206, 0.3136, 0.5380**, and **25.8407, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **50.7648, 0.3012, 0.5991**, and if you desaturate by 10%, it is **51.0859, 0.3026, 0.5905**.

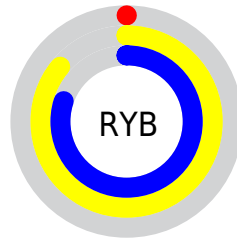
# Distribution



Red (6%)

Green (86%)

Blue (0%)



Red (0%)

Yellow (86%)

Blue (80%)

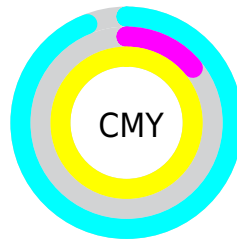


Cyan (93%)

Magenta (0%)

Yellow (100%)

Black (14%)



Cyan (94%)

Magenta (14%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 50.7646, 0.3012, 0.5990 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 50.7646, 0.3012, 0.5990 by changing the saturation by 10% instead.





 50.7646, 0.3012,  
0.5990


 50.7646, 0.3012,  
0.5990


389.6485, 0.3202,  
0.4575


 36.0213, 0.2916,  
0.6329


 91.3067, 0.3117,  
0.5478

 24.4506, 0.2768,  
0.6739


 117.8743, 0.3145,  
0.5284


 15.6682, 0.2544,  
0.7261


 149.1522, 0.3165,  
0.5119

 9.2897, 0.2171,  
0.7829

 185.5246, 0.3179,  
0.4978

 4.9306, 0.1592,  
0.8408

 227.3761, 0.3188,  
0.4856

 2.2066, 0.0000,  
1.0000

 275.0910, 0.3195,

 0.7236, 0.0000,

0.4750

1.0000

329.0536, 0.3199,  
0.4657

■ 0.0000, 0.0000,  
0.0000

■ 50.7646, 0.3012,  
0.5990

■ 50.7646, 0.3012,  
0.5990

■ 50.7648, 0.3012,  
0.5991

■ 51.0859, 0.3026,  
0.5905

■ 51.6791, 0.3045,  
0.5743

■ 52.5990, 0.3063,  
0.5499

■ 53.8837, 0.3081,  
0.5193

■ 55.5661, 0.3096,  
0.4851

■ 57.6754, 0.3108,  
0.4497

■ 60.2380, 0.3116,  
0.4153

■ 63.2784, 0.3122,  
0.3833

■ 66.8190, 0.3126,  
0.3544

# Harmonies

## Analogous

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



50.7646, 0.4193, 0.5530



50.7646, 0.3012, 0.5990



50.7646, 0.1914, 0.4941

# Triad

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



50.7646, 0.3012, 0.5990



50.7646, 0.1169, 0.1507



50.7646, 0.5415, 0.2870

# Complementary

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



50.7646, 0.3012, 0.5990



18.0187, 0.3041, 0.1449

# 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.



50.7646, 0.4110, 0.2169



50.7646, 0.3012, 0.5990



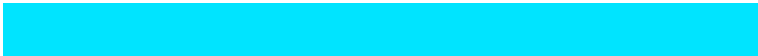
50.7646, 0.1677, 0.1430

# Square

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



50.7646, 0.3012, 0.5990



50.7646, 0.1019, 0.1989



50.7646, 0.2664, 0.1658



50.7646, 0.5786, 0.3649



# Rectangle

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



50.7646, 0.3012, 0.5990



50.7646, 0.1395, 0.3703



50.7646, 0.2664, 0.1658



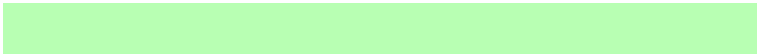
50.7646, 0.5056, 0.2625

# Sweetspot

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



50.7667, 0.3012, 0.5990



84.8946, 0.3116, 0.4165



58.4470, 0.4316, 0.4955



17.8266, 0.3113, 0.4309



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.



50.7667, 0.3012, 0.5990



71.6389, 0.3010, 0.5992



51.4944, 0.2790, 0.5243



14.6474, 0.3126, 0.3531



30.1157, 0.3015, 0.5988



1.9659, 0.3062, 0.5951



# Inverse Universe

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



18.0187, 0.3041, 0.1449



25.4014, 0.3039, 0.1448



16.5254, 0.4697, 0.2361



13.2284, 0.3127, 0.3059



10.6990, 0.3044, 0.1450

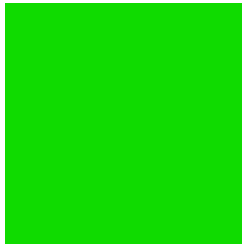


0.7067, 0.3072, 0.1466



# Previews

## White Background



This preview shows how the Yxy color 50.7646, 0.3012, 0.5990 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

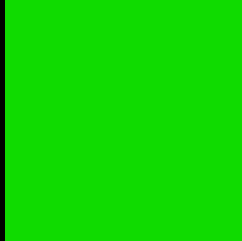
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 50.7646, 0.3012, 0.5990 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

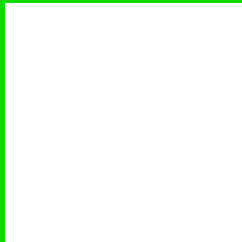
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 50.7646, 0.3012, 0.5990**

## **Background**



This preview shows how black text looks on a background with the Yxy color 50.7646, 0.3012, 0.5990.



This preview shows how white text looks on a background with the Yxy color 50.7646, 0.3012, 0.5990.

# 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

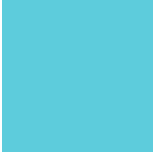
50.7646, 0.3012, 0.5990

### Protanopia

49.8153, 0.4400, 0.4888

### Deuteranopia

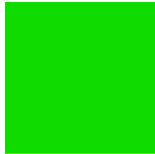
49.7082, 0.4608, 0.4518



## **Tritanopia**

50.6802, 0.2363, 0.3069

# Trichromacy



## Original Color

50.7646, 0.3012, 0.5990



## Protanomaly

46.4223, 0.3676, 0.5463



## Deuteranomaly

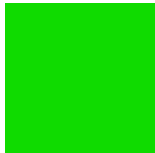
45.2022, 0.3806, 0.5241



## Tritanomaly

48.6182, 0.2678, 0.4382

# Monochromacy



## Original Color

50.7646, 0.3012, 0.5990



## Achromatopsia

23.4551, 0.3127, 0.3290



## Achromatomaly

29.3805, 0.3097, 0.4757

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 50.7646, 0.3012, 0.5990 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(15, 219, 0)` looks like.

```
.text, #text, p{  
    color:rgb(15, 219, 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(15, 219, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(15, 219, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 50.7646, 0.3012, 0.5990 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(15, 219, 0) }
```

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

```
.border{ border-color:rgb(15, 219, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(15, 219, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(15, 219, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(15, 219, 0);  
box-shadow:4px 4px 4px 4px rgb(15, 219, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 50.7646, 0.3012, 0.5990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(15, 219, 0) }
```

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

```
.background{ background-color: rgb(15, 219,  
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](#).

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