

# Converting Colors

$Y_{xy}(37.4488, 0.3013, 0.5990)$

Have a look what the booklet for  
Yxy(37.4488, 0.3013, 0.5990)  
contains.

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# Color

**Yxy(37.3398, 0.3013, 0.5990)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0CBF00
RGB	12, 191, 0
RGB Percent	5%, 75%, 0%
CMY	0.9529, 0.2510, 1.0000
CMYK	0.94, 0.00, 1.00, 0.25
HSL	116°, 100%, 37%
HSV	116°, 100%, 75%
XYZ	18.7821, 37.3398, 6.2150
YIQ	115.7050, -45.3730, -97.3490

# Conversions

## Conversions Part 2

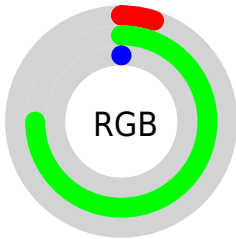
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 191, 179
Decimal	835328
CIELab	67.53, -68.82, 67.01
CIELCh	68, 96.055, 135.761
Yxy	37.3398, 0.3013, 0.5990
Android (android.graphics.Color)	4279025408 (0xFF0CBF00)
YUV	115.7050, -57.0426, -90.9493
Hunter-Lab	61.1063, -52.0709, 36.7442

# Details

The Yxy color **37.3398, 0.3013, 0.5990** is a dark color, and the websafe version is hex **33CC00**. A complement of this color would be **13.3455, 0.3052, 0.1455**, and the grayscale version is **17.5594, 0.3127, 0.3290**.

A 20% lighter version of the original color is **71.2445, 0.3127, 0.5438**, and **17.6083, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **37.3415, 0.3013, 0.5990**, and if you desaturate by 10%, it is **37.5852, 0.3026, 0.5898**.

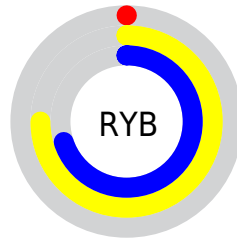
# Distribution



Red (5%)

Green (75%)

Blue (0%)



Red (0%)

Yellow (75%)

Blue (70%)

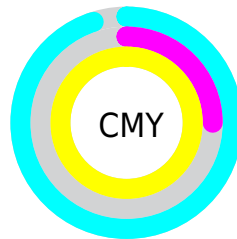


Cyan (94%)

Magenta (0%)

Yellow (100%)

Black (25%)



Cyan (95%)

Magenta (25%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 37.3398, 0.3013, 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 37.3398, 0.3013, 0.5990 by changing the saturation by 10% instead.





 37.3398, 0.3013,  
0.5990


 37.3398, 0.3013,  
0.5990


334.7793, 0.3205,  
0.4504


 25.4707, 0.2905,  
0.6369


 71.0951, 0.3125,  
0.5434


 16.4281, 0.2727,  
0.6837


 93.7501, 0.3153,  
0.5228

 9.8276, 0.2473,  
0.7527


 120.7691, 0.3172,  
0.5055

 5.2848, 0.1944,  
0.8056

 152.5366, 0.3185,  
0.4910

 2.4153, 0.0639,  
0.9361

 189.4370, 0.3194,  
0.4786

 0.8337, 0.0000,  
1.0000

 231.8547, 0.3199,

 0.0000, 0.0000,

0.4679

0.0000

280.1740, 0.3202,  
0.4586

■ 37.3398, 0.3013,  
0.5990

■ 37.3398, 0.3013,  
0.5990

■ 37.3415, 0.3013,  
0.5990

■ 37.5852, 0.3026,  
0.5898

■ 38.0282, 0.3044,  
0.5732

■ 38.7097, 0.3062,  
0.5486

■ 39.6573, 0.3079,  
0.5180

■ 40.8945, 0.3094,  
0.4840

■ 42.4425, 0.3106,  
0.4489

■ 44.3203, 0.3115,  
0.4148

■ 46.5455, 0.3121,  
0.3831

■ 49.1342, 0.3125,  
0.3544

# Harmonies

## Analogous

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



37.3398, 0.4194, 0.5530



37.3398, 0.3013, 0.5990



37.3398, 0.1914, 0.4942

# Triad

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



37.3398, 0.3013, 0.5990



37.3398, 0.1169, 0.1507



37.3398, 0.5414, 0.2870

# Complementary

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



37.3398, 0.3013, 0.5990



13.3455, 0.3052, 0.1455

# 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.



37.3398, 0.4108, 0.2168



37.3398, 0.3013, 0.5990



37.3398, 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.



37.3398, 0.3013, 0.5990



37.3398, 0.1019, 0.1989



37.3398, 0.2663, 0.1658



37.3398, 0.5786, 0.3648



# Rectangle

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



37.3398, 0.3013, 0.5990



37.3398, 0.1396, 0.3705



37.3398, 0.2663, 0.1658



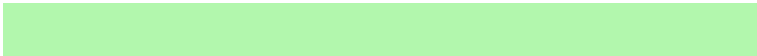
37.3398, 0.5055, 0.2624

# Sweetspot

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



37.3415, 0.3013, 0.5990



79.2009, 0.3114, 0.4164



43.0253, 0.4315, 0.4956



17.0630, 0.3111, 0.4307



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.



37.3415, 0.3013, 0.5990



66.8420, 0.3010, 0.5992



37.8843, 0.2786, 0.5229



10.6775, 0.3125, 0.3526



24.5520, 0.3016, 0.5987



0.9716, 0.3078, 0.5938



# Inverse Universe

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



13.3455, 0.3052, 0.1455



23.8604, 0.3049, 0.1453



12.1646, 0.4682, 0.2353



9.6649, 0.3128, 0.3063



8.7833, 0.3054, 0.1456

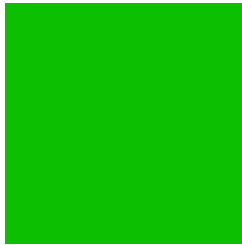


0.3534, 0.3093, 0.1478



# Previews

## White Background



This preview shows how the Yxy color 37.3398, 0.3013, 0.5990 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

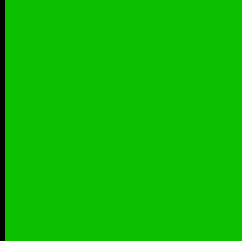
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 37.3398, 0.3013, 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 37.3398, 0.3013, 0.5990**

## **Background**



This preview shows how black text looks on a background with the Yxy color 37.3398, 0.3013, 0.5990.



This preview shows how white text looks on a background with the Yxy color 37.3398, 0.3013, 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

37.3398, 0.3013, 0.5990

### Protanopia

36.7413, 0.4398, 0.4890

### Deuteranopia

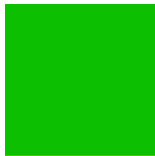
36.5819, 0.4601, 0.4512



## Tritanopia

37.3959, 0.2367, 0.3070

# Trichromacy



## Original Color

37.3398, 0.3013, 0.5990



## Protanomaly

34.3371, 0.3667, 0.5470



## Deuteranomaly

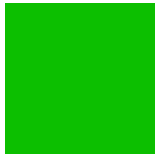
33.2307, 0.3806, 0.5231



## Tritanomaly

36.1129, 0.2679, 0.4382

# Monochromacy



## Original Color

37.3398, 0.3013, 0.5990



## Achromatopsia

17.4647, 0.3127, 0.3290



## Achromatomaly

21.7590, 0.3094, 0.4742

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 37.3398, 0.3013, 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(12, 191, 0)` looks like.

```
.text, #text, p{  
    color:rgb(12, 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(12, 191, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 191, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 37.3398, 0.3013, 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(12, 191, 0) }
```

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

```
.border{ border-color:rgb(12, 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(12, 191, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 191, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 191, 0);  
box-shadow:4px 4px 4px 4px rgb(12, 191, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 37.3398, 0.3013, 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(12, 191, 0) }
```

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

```
.background{ background-color: rgb(12, 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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