

# Converting Colors

$Y_{xy}(32.2317, 0.3037, 0.5971)$

Have a look what the booklet for  
Yxy(32.2317, 0.3037, 0.5971)  
contains.

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**Color**

**Yxy(32.0350, 0.3037, 0.5970)**

# Conversions

## Conversions Part 1

Format	Color
Hex	18B200
RGB	24, 178, 0
RGB Percent	9%, 70%, 0%
CMY	0.9061, 0.3019, 0.9994
CMYK	0.87, 0.00, 1.00, 0.30
HSL	112°, 100%, 35%
HSV	112°, 100%, 70%
XYZ	16.2965, 32.0350, 5.3284
YIQ	111.6620, -34.6460, -88.0060

# Conversions

## Conversions Part 2

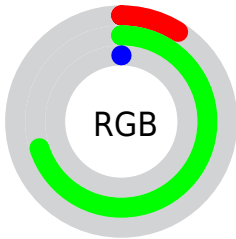
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 178, 154
Decimal	1618432
CIELab	63.37, -64.35, 63.69
CIELCh	63, 90.540, 135.293
Yxy	32.0350, 0.3037, 0.5970
Android (android.graphics.Color)	4279808512 (0xFF18B200)
YUV	111.6620, -55.0494, -76.8796
Hunter-Lab	56.5995, -47.6541, 34.0379

# Details

The Yxy color **32.0350, 0.3037, 0.5970** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **10.1102, 0.2875, 0.1358**, and the grayscale version is **16.2709, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.8815, 0.3148, 0.5391**, and **14.4153, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **32.0343, 0.3037, 0.5971**, and if you desaturate by 10%, it is **32.3244, 0.3062, 0.5864**.

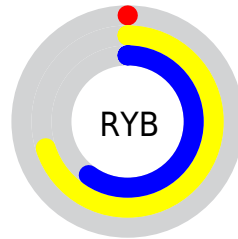
# Distribution



Red (9%)

Green (70%)

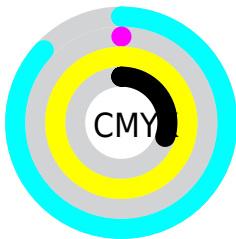
Blue (0%)



Red (0%)

Yellow (70%)

Blue (60%)

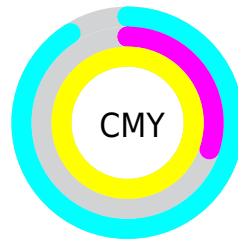


Cyan (87%)

Magenta (0%)

Yellow (100%)

Black (30%)



Cyan (91%)

Magenta (30%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 32.0350, 0.3037, 0.5970 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 32.0350, 0.3037, 0.5970 by changing the saturation by 10% instead.





 32.0350, 0.3037,  
0.5970


 32.0350, 0.3037,  
0.5970


311.2787, 0.3216,  
0.4462


 21.3882, 0.2925,  
0.6367


 62.8660, 0.3147,  
0.5396


 13.4081, 0.2737,  
0.6866


 83.8189, 0.3174,  
0.5186

 7.7102, 0.2440,  
0.7560


 108.9761, 0.3191,  
0.5012

 3.9100, 0.1853,  
0.8147

 138.7219, 0.3202,  
0.4866

 1.6234, 0.0000,  
1.0000

 173.4406, 0.3208,  
0.4742

 0.3733, 0.0000,  
1.0000


 213.5167, 0.3212,


 0.0000, 0.0000,


0.4635


0.0000

 259.3346, 0.3215,  
0.4543


 32.0350, 0.3037,  
0.5970


 32.0350, 0.3037,  
0.5970

 32.0343, 0.3037,  
0.5971

 32.3244, 0.3062,  
0.5864

 32.7744, 0.3090,  
0.5689

 33.4142, 0.3113,  
0.5441

 34.2624, 0.3131,  
0.5139

 35.3354, 0.3142,  
0.4806

■ 36.6477, 0.3147,  
0.4464

■ 38.2128, 0.3147,  
0.4132

■ 40.0431, 0.3143,  
0.3822

■ 42.1502, 0.3136,  
0.3539

# Harmonies

## Analogous

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



32.0350, 0.4211, 0.5505



32.0350, 0.3037, 0.5970



32.0350, 0.1939, 0.4954

# Triad

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



32.0350, 0.3037, 0.5970



32.0350, 0.1174, 0.1521



32.0350, 0.5383, 0.2863

# Complementary

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



32.0350, 0.3037, 0.5970



10.1102, 0.2875, 0.1358

# 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.



32.0350, 0.4078, 0.2165



32.0350, 0.3037, 0.5970



32.0350, 0.1674, 0.1439

# Square

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



32.0350, 0.3037, 0.5970



32.0350, 0.1030, 0.2011



32.0350, 0.2648, 0.1661



32.0350, 0.5772, 0.3639



# Rectangle

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



32.0350, 0.3037, 0.5970



32.0350, 0.1417, 0.3731



32.0350, 0.2648, 0.1661



32.0350, 0.5021, 0.2619

# Sweetspot

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



32.0363, 0.3037, 0.5970



69.1070, 0.3147, 0.4152



31.7046, 0.4483, 0.4822



15.0385, 0.3148, 0.4289



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290



# Same Dimension

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



32.0363, 0.3037, 0.5970



58.0331, 0.3031, 0.5975



32.1959, 0.2851, 0.5462



9.5428, 0.3135, 0.3524



22.9360, 0.3041, 0.5967



0.7388, 0.3180, 0.5857



# Inverse Universe

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



10.1102, 0.2875, 0.1358



18.2501, 0.2869, 0.1354



10.7242, 0.4334, 0.2162



8.5880, 0.3117, 0.3064



7.2495, 0.2879, 0.1359

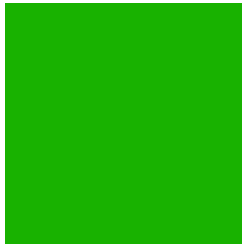


0.2440, 0.2977, 0.1413



# Previews

## White Background



This preview shows how the Yxy color 32.0350, 0.3037, 0.5970 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

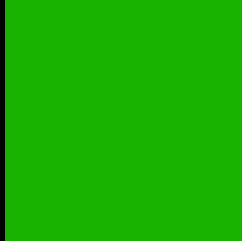
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 32.0350, 0.3037, 0.5970 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

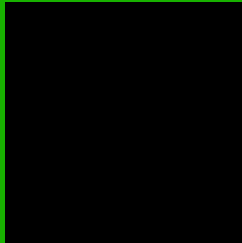
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 32.0350, 0.3037, 0.5970**

## **Background**



This preview shows how black text looks on a background with the Yxy color 32.0350, 0.3037, 0.5970.



This preview shows how white text looks on a background with the Yxy color 32.0350, 0.3037, 0.5970.

# 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

32.0350, 0.3037, 0.5970

### Protanopia

31.5531, 0.4400, 0.4888

### Deuteranopia

31.1628, 0.4600, 0.4507



## Tritanopia

31.7427, 0.2373, 0.3056

# Trichromacy



## Original Color

32.0350, 0.3037, 0.5970



## Protanomaly

29.6922, 0.3725, 0.5424



## Deuteranomaly

28.5887, 0.3858, 0.5188



## Tritanomaly

30.8639, 0.2702, 0.4354

# Monochromacy



## Original Color

32.0350, 0.3037, 0.5970



## Achromatopsia

16.2029, 0.3127, 0.3290



## Achromatomaly

19.7687, 0.3147, 0.4696

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 32.0350, 0.3037, 0.5970 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(24, 178, 0)` looks like.

```
.text, #text, p{  
    color:rgb(24, 178, 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(24, 178, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(24, 178, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 32.0350, 0.3037, 0.5970 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(24, 178, 0) }
```

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

```
.border{ border-color:rgb(24, 178, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(24, 178, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(24, 178, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(24, 178, 0);  
box-shadow:4px 4px 4px 4px rgb(24, 178, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 32.0350, 0.3037, 0.5970 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(24, 178, 0) }
```

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

```
.background{ background-color: rgb(24, 178,  
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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