

Converting Colors

$Y_{xy}(31.5810, 0.3136, 0.6378)$

Have a look what the booklet for
Yxy(31.5810, 0.3136, 0.6378)
contains.

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Color

Yxy(31.9600, 0.3023, 0.5982)

Conversions

Conversions Part 1

Format	Color
Hex	11B200
RGB	17, 178, 0
RGB Percent	7%, 70%, 0%
CMY	0.9334, 0.3019, 1.0000
CMYK	0.90, 0.00, 1.00, 0.30
HSL	114°, 100%, 35%
HSV	114°, 100%, 70%
XYZ	16.1510, 31.9600, 5.3160
YIQ	109.5690, -38.8180, -89.4900

Conversions

Conversions Part 2

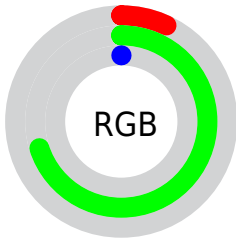
Format	Color
RYB	0, 178, 161
Decimal	1159680
CIELab	63.31, -64.91, 63.64
CIELCh	63, 90.905, 135.565
Yxy	31.9600, 0.3023, 0.5982
Android (android.graphics.Color)	4279349760 (0xFF11B200)
YUV	109.5690, -54.0175, -81.1830
Hunter-Lab	56.5332, -47.9374, 33.9980

Details

The Yxy color **31.9600, 0.3023, 0.5982** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **10.7949, 0.2971, 0.1410**, and the grayscale version is **15.6272, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.7052, 0.3133, 0.5401**, and **14.4153, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **31.9614, 0.3023, 0.5982**, and if you desaturate by 10%, it is **32.2101, 0.3041, 0.5881**.

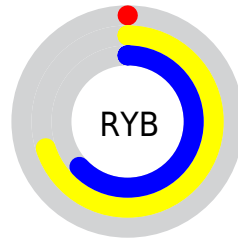
Distribution



Red (7%)

Green (70%)

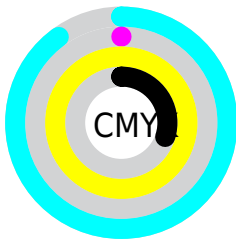
Blue (0%)



Red (0%)

Yellow (70%)

Blue (63%)

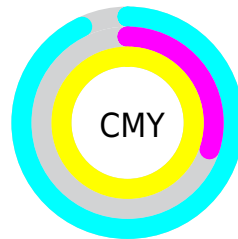


Cyan (90%)

Magenta (0%)

Yellow (100%)

Black (30%)



Cyan (93%)


Magenta (30%)

Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.9600, 0.3023, 0.5982 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 31.9600, 0.3023, 0.5982 by changing the saturation by 10% instead.


 31.9600, 0.3023,
0.5982


 31.9600, 0.3023,
0.5982


310.9370, 0.3210,
0.4465


 21.3309, 0.2909,
0.6382


 62.7484, 0.3136,
0.5404

 13.3661, 0.2718,
0.6885


 83.6765, 0.3164,
0.5193


 7.6811, 0.2416,
0.7584


 108.8064, 0.3182,
0.5018

 3.8916, 0.1824,
0.8176

 138.5225, 0.3194,
0.4871

 1.6131, 0.0000,
1.0000

 173.2093, 0.3201,
0.4747


 0.3664, 0.0000,
1.0000


 213.2510, 0.3206,


 0.0000, 0.0000,


0.4640


0.0000


 259.0321, 0.3208,
0.4547

 31.9600, 0.3023,
0.5982

 31.9600, 0.3023,
0.5982


 31.9614, 0.3023,
0.5982

 32.2101, 0.3041,
0.5881

 32.6249, 0.3064,
0.5709

 33.2367, 0.3085,
0.5462

 34.0664, 0.3102,
0.5158

 35.1321, 0.3116,
0.4821

■ 36.4500, 0.3125,
0.4475

■ 38.0348, 0.3130,
0.4139

■ 39.9001, 0.3131,
0.3826

■ 42.0587, 0.3130,
0.3542

Harmonies

Analogous

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



31.9600, 0.4201, 0.5519



31.9600, 0.3023, 0.5982



31.9600, 0.1925, 0.4947

Triad

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



31.9600, 0.3023, 0.5982



31.9600, 0.1170, 0.1513



31.9600, 0.5402, 0.2867

Complementary

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



31.9600, 0.3023, 0.5982



10.7949, 0.2971, 0.1410

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.



31.9600, 0.4096, 0.2167



31.9600, 0.3023, 0.5982



31.9600, 0.1676, 0.1434

Square

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



31.9600, 0.3023, 0.5982



31.9600, 0.1024, 0.1998



31.9600, 0.2656, 0.1659



31.9600, 0.5781, 0.3644

Rectangle

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



31.9600, 0.3023, 0.5982



31.9600, 0.1404, 0.3716



31.9600, 0.2656, 0.1659



31.9600, 0.5041, 0.2622

Sweetspot

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



31.9614, 0.3023, 0.5982



68.8086, 0.3129, 0.4156



34.6778, 0.4380, 0.4904



14.9681, 0.3128, 0.4295



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.



31.9614, 0.3023, 0.5982



57.9134, 0.3018, 0.5985



32.3000, 0.2812, 0.5322



9.5276, 0.3130, 0.3524



22.8806, 0.3026, 0.5979



0.7325, 0.3130, 0.5897

Inverse Universe

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



10.7949, 0.2971, 0.1410



19.5195, 0.2967, 0.1408



10.5229, 0.4536, 0.2272



8.6047, 0.3123, 0.3065



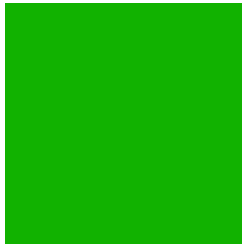
7.7383, 0.2974, 0.1412



0.2553, 0.3044, 0.1450

Previews

White Background



This preview shows how the Yxy color 31.9600, 0.3023, 0.5982 looks on a white background.

Color Contrast Check

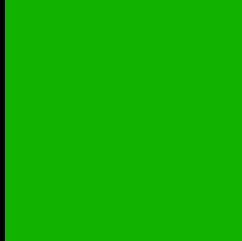
Large Text (above 18pt) WCAG AA × Fail

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 31.9600, 0.3023, 0.5982 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

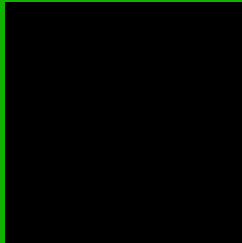
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 31.9600, 0.3023, 0.5982

Background



This preview shows how black text looks on a background with the Yxy color 31.9600, 0.3023, 0.5982.



This preview shows how white text looks on a background with the Yxy color 31.9600, 0.3023, 0.5982.

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

31.9600, 0.3023, 0.5982

Protanopia

31.5531, 0.4400, 0.4888

Deuteranopia

31.1694, 0.4596, 0.4501



Tritanopia

31.7014, 0.2369, 0.3056

Trichromacy



Original Color

31.9600, 0.3023, 0.5982



Protanomaly

29.5537, 0.3704, 0.5441



Deuteranomaly

28.4363, 0.3833, 0.5198



Tritanomaly

30.7766, 0.2689, 0.4358

Monochromacy



Original Color

31.9600, 0.3023, 0.5982



Achromatopsia

15.5926, 0.3127, 0.3290



Achromatomaly

19.3066, 0.3117, 0.4720

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.9600, 0.3023, 0.5982 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(17, 178, 0)` looks like.

```
.text, #text, p{  
    color:rgb(17, 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(17, 178, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(17, 178, 0) }
```

Border

The CSS property to change the border of an element to Yxy 31.9600, 0.3023, 0.5982 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(17, 178, 0) }
```

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

```
.border{ border-color:rgb(17, 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(17, 178, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(17, 178, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(17, 178, 0);  
box-shadow:4px 4px 4px 4px rgb(17, 178, 0)  
}
```


Background

The CSS property to change the background color of an element to Yxy 31.9600, 0.3023, 0.5982 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(17, 178, 0) }
```

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

```
.background{ background-color: rgb(17, 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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