

Converting Colors

$Y_{xy}(31.0765, 0.2892, 0.5509)$

Have a look what the booklet for
Yxy(31.0765, 0.2892, 0.5509)
contains.

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Color

Yxy(31.0840, 0.2893, 0.5510)

Conversions

Conversions Part 1

| Format | Color |
|-------------|------------------------------|
| Hex | 12AF39 |
| RGB | 18, 175, 57 |
| RGB Percent | 7%, 69%, 22% |
| CMY | 0.9286, 0.3137, 0.7765 |
| CMYK | 0.90, 0.00, 0.67, 0.31 |
| HSL | 135°, 81%, 38% |
| HSV | 135°, 90%, 69% |
| XYZ | 16.3205, 31.0840, 9.0093 |
| YIQ | 114.6050, -55.6940, -69.9820 |

Conversions

Conversions Part 2

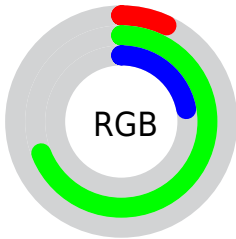
| Format | Color |
|-------------------------------------|---------------------------------|
| RYB | 18, 144, 175 |
| Decimal | 1224505 |
| CIELab | 62.58, -60.79, 48.33 |
| CIELCh | 63, 77.662, 141.516 |
| Yxy | 31.0840, 0.2893, 0.5510 |
| Android (android.graphics.Color) | 4279414585 (0xFF12AF39) |
| YUV | 114.6050, -28.3993, -84.7226 |
| Hunter-Lab | 55.7530, -45.3157, 29.4463 |

Details

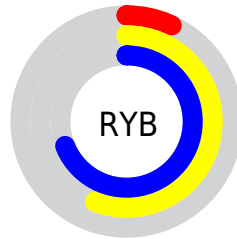
The Yxy color **31.0840, 0.2893, 0.5510** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **11.3362, 0.3850, 0.1952**, and the grayscale version is **17.1371, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.4700, 0.2998, 0.5013**, and **13.6747, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **30.8445, 0.2917, 0.5699**, and if you desaturate by 10%, it is **31.4733, 0.2878, 0.5279**.

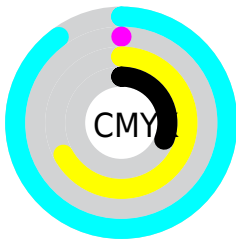
Distribution



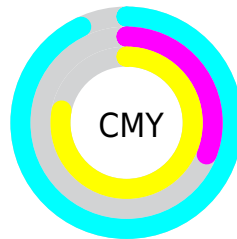
- Red (7%)
- Green (69%)
- Blue (22%)



- Red (7%)
- Yellow (56%)
- Blue (69%)



- Cyan (90%)
- Magenta (0%)
- Yellow (67%)
- Black (31%)




- Cyan (93%)
- Magenta (31%)
- Yellow (78%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.0840, 0.2893, 0.5510 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 31.0840, 0.2893, 0.5510 by changing the saturation by 10% instead.

 31.0840, 0.2893,
0.5510


 31.0840, 0.2893,
0.5510


306.9251, 0.3096,
0.4233

 20.6628, 0.2800,
0.5877


 61.3723, 0.2995,
0.5007


 12.8778, 0.2649,
0.6368

 82.0082, 0.3024,
0.4829


 7.3444, 0.2402,
0.7070


 106.8178, 0.3045,
0.4684

 3.6784, 0.1953,
0.8047

 136.1855, 0.3061,
0.4563

 1.4954, 0.0000,
1.0000

 170.4957, 0.3073,
0.4461

 0.2855, 0.0000,
1.0000

 210.1328, 0.3082,

 0.0000, 0.0000,

0.4374

0.0000

255.4811, 0.3090,
0.4299

■ 31.0840, 0.2893,
0.5510

■ 31.0840, 0.2893,
0.5510

■ 30.8445, 0.2917,
0.5699

■ 31.4733, 0.2878,
0.5279

■ 30.8360, 0.2918,
0.5706

■ 32.0514, 0.2877,
0.5016

■ 32.8414, 0.2890,
0.4735

■ 33.8625, 0.2915,
0.4452

■ 35.1312, 0.2949,
0.4178

■ 36.6629, 0.2990,
0.3920

■ 38.4714, 0.3035,
0.3684

■ 40.5697, 0.3082,
0.3471

■ 42.9700, 0.3129,
0.3283

Harmonies

Analogous

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



31.0840, 0.3967, 0.5432



31.0840, 0.2893, 0.5510



31.0840, 0.1932, 0.4396

Triad

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



31.0840, 0.2893, 0.5510



31.0840, 0.1418, 0.1654



31.0840, 0.5249, 0.3092

Complementary

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



31.0840, 0.2893, 0.5510



11.3362, 0.3850, 0.1952

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.



31.0840, 0.4235, 0.2413



31.0840, 0.2893, 0.5510



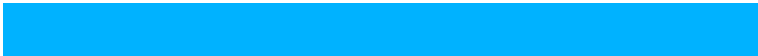
31.0840, 0.1974, 0.1630

Square

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



31.0840, 0.2893, 0.5510



31.0840, 0.1220, 0.2037



31.0840, 0.2954, 0.1894



31.0840, 0.5453, 0.3845

Rectangle

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



31.0840, 0.2893, 0.5510



31.0840, 0.1502, 0.3390



31.0840, 0.2954, 0.1894



31.0840, 0.4985, 0.2856

Sweetspot

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



31.0853, 0.2893, 0.5510



66.3120, 0.3000, 0.3867



36.1422, 0.3804, 0.5290



14.5155, 0.2985, 0.3950



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290

Same Dimension

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



31.0853, 0.2893, 0.5510



55.1978, 0.2926, 0.5732



32.4885, 0.2485, 0.4071



8.9707, 0.3084, 0.3465



22.0916, 0.2913, 0.5687



0.6233, 0.2746, 0.5086

Inverse Universe

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



11.3362, 0.3850, 0.1952



19.2553, 0.3965, 0.1958



9.8792, 0.5538, 0.2924



8.1137, 0.3174, 0.3121



7.7241, 0.3940, 0.1944



0.2229, 0.3677, 0.1799

Previews

White Background



This preview shows how the Yxy color 31.0840, 0.2893, 0.5510 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 31.0840, 0.2893, 0.5510 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 31.0840, 0.2893, 0.5510

Background



This preview shows how black text looks on a background with the Yxy color 31.0840, 0.2893, 0.5510.



This preview shows how white text looks on a background with the Yxy color 31.0840, 0.2893, 0.5510.

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

31.0840, 0.2893, 0.5510

Protanopia

30.3678, 0.4223, 0.4642

Deuteranopia

30.5014, 0.4362, 0.4276



Tritanopia

31.1417, 0.2362, 0.3070

Trichromacy



Original Color

31.0840, 0.2893, 0.5510



Protanomaly

28.6307, 0.3539, 0.5072



Deuteranomaly

28.1728, 0.3610, 0.4820



Tritanomaly

30.4556, 0.2553, 0.3946

Monochromacy



Original Color

31.0840, 0.2893, 0.5510



Achromatopsia

17.1441, 0.3127, 0.3290



Achromatomaly

20.4049, 0.2946, 0.4211

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.0840, 0.2893, 0.5510 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(18, 175, 57)` looks like.

```
.text, #text, p{  
    color:rgb(18, 175, 57)  
}
```

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(18, 175, 57) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 175, 57) }
```

Border

The CSS property to change the border of an element to Yxy 31.0840, 0.2893, 0.5510 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(18, 175, 57) }
```

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

```
.border{ border-color:rgb(18, 175, 57) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 175, 57)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 175, 57); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 175, 57);  
box-shadow:4px 4px 4px 4px rgb(18, 175,  
57) }
```


Background

The CSS property to change the background color of an element to Yxy 31.0840, 0.2893, 0.5510 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 175, 57) }
```

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

```
.background{ background-color: rgb(18, 175,  
57) }
```

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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