

Converting Colors

$Y_{xy}(33.7660, 0.3007, 0.5846)$

Have a look what the booklet for
Yxy(33.7660, 0.3007, 0.5846)
contains.

Yxy(33.7680, 0.3007, 0.5844)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(33.7680, 0.3007, 0.5844)

Conversions

Conversions Part 1

Format	Color
Hex	1BB61B
RGB	27, 182, 27
RGB Percent	11%, 71%, 11%
CMY	0.8946, 0.2862, 0.8941
CMYK	0.85, 0.00, 0.85, 0.29
HSL	120°, 74%, 41%
HSV	120°, 85%, 71%
XYZ	17.3751, 33.7680, 6.6392
YIQ	117.9850, -42.6250, -81.0650

Conversions

Conversions Part 2

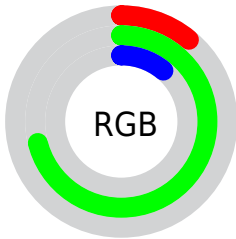
Format	Color
RYB	27, 182, 182
Decimal	1816091
CIELab	64.78, -64.41, 60.55
CIELCh	65, 88.405, 136.768
Yxy	33.7680, 0.3007, 0.5844
Android (android.graphics.Color)	4280006171 (0xFF1BB61B)
YUV	117.9850, -44.8556, -79.7938
Hunter-Lab	58.1102, -48.3208, 33.9032

Details

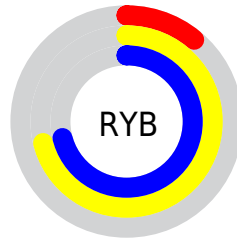
The Yxy color **33.7680, 0.3007, 0.5844** is a dark color, and the websafe version is hex **33CC33**. A complement of this color would be **14.0955, 0.3208, 0.1609**, and the grayscale version is **18.2536, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.4244, 0.3111, 0.5299**, and **15.1787, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **33.5343, 0.3002, 0.5961**, and if you desaturate by 10%, it is **34.2094, 0.3016, 0.5641**.

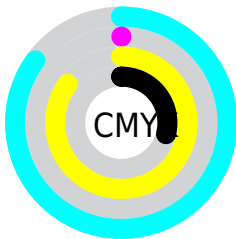
Distribution



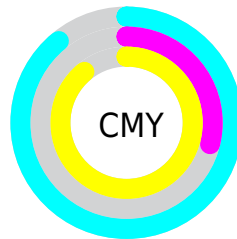
- Red (11%)
- Green (71%)
- Blue (11%)



- Red (11%)
- Yellow (71%)
- Blue (11%)



- Cyan (85%)
- Magenta (0%)
- Yellow (85%)
- Black (29%)





- Cyan (89%)
- Magenta (29%)
- Yellow (89%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 33.7680, 0.3007, 0.5844 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 33.7680, 0.3007, 0.5844 by changing the saturation by 10% instead.


 33.7680, 0.3007,
0.5844


 33.7680, 0.3007,
0.5844


319.0963, 0.3184,
0.4409

 22.7154, 0.2906,
0.6227


 65.5727, 0.3110,
0.5296

 14.3835, 0.2737,
0.6713


 87.0937, 0.3136,
0.5096

 8.3879, 0.2504,
0.7496


 112.8729, 0.3154,
0.4931

 4.3441, 0.1946,
0.8054

 143.2947, 0.3165,
0.4793

 1.8679, 0.0000,
1.0000

 178.7436, 0.3173,
0.4675

 0.5290, 0.0000,
1.0000

 219.6039, 0.3179,

 0.0000, 0.0000,

0.4574

0.0000

266.2600, 0.3182,
0.4486

■ 33.7680, 0.3007,
0.5844

■ 33.7680, 0.3007,
0.5844

■ 33.5343, 0.3002,
0.5961

■ 34.2094, 0.3016,
0.5641

■ 33.4594, 0.3000,
0.5999

■ 34.8878, 0.3029,
0.5364

■ 35.8317, 0.3045,
0.5035

■ 37.0647, 0.3061,
0.4682

■ 38.6078, 0.3078,
0.4329

■ 40.4800, 0.3094,
0.3995

■ 42.6987, 0.3108,
0.3690

■ 45.2803, 0.3121,
0.3419

■ 48.2399, 0.3132,
0.3181

Harmonies

Analogous

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



33.7680, 0.4152, 0.5488



33.7680, 0.3007, 0.5844



33.7680, 0.1945, 0.4795

Triad

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



33.7680, 0.3007, 0.5844



33.7680, 0.1240, 0.1561



33.7680, 0.5340, 0.2925

Complementary

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



33.7680, 0.3007, 0.5844



14.0955, 0.3208, 0.1609

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.



33.7680, 0.4116, 0.2232



33.7680, 0.3007, 0.5844



33.7680, 0.1754, 0.1492

Square

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



33.7680, 0.3007, 0.5844



33.7680, 0.1084, 0.2024



33.7680, 0.2728, 0.1725



33.7680, 0.5681, 0.3695

Rectangle

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



33.7680, 0.3007, 0.5844



33.7680, 0.1446, 0.3637



33.7680, 0.2728, 0.1725



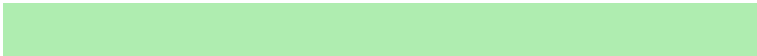
33.7680, 0.5005, 0.2682

Sweetspot

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



33.7694, 0.3007, 0.5844



72.9429, 0.3092, 0.4034



43.4836, 0.4153, 0.4986



15.8425, 0.3087, 0.4147



93.3107, 0.3127, 0.3290



18.7317, 0.3127, 0.3290

Same Dimension

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



33.7694, 0.3007, 0.5844



60.6558, 0.3000, 0.6000



34.6986, 0.2689, 0.4736



10.0603, 0.3116, 0.3526



23.6265, 0.3000, 0.5999



0.8329, 0.2999, 0.5996

Inverse Universe

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



14.0955, 0.3208, 0.1609



24.1406, 0.3212, 0.1543



11.7321, 0.4602, 0.2432



9.1626, 0.3138, 0.3065



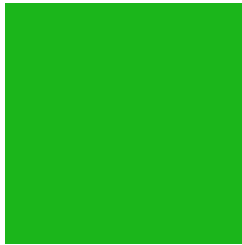
9.4033, 0.3212, 0.1543



0.3315, 0.3211, 0.1542

Previews

White Background



This preview shows how the Yxy color 33.7680, 0.3007, 0.5844 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 33.7680, 0.3007, 0.5844 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 33.7680, 0.3007, 0.5844

Background



This preview shows how black text looks on a background with the Yxy color 33.7680, 0.3007, 0.5844.



This preview shows how white text looks on a background with the Yxy color 33.7680, 0.3007, 0.5844.

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

33.7680, 0.3007, 0.5844

Protanopia

33.0541, 0.4374, 0.4834

Deuteranopia

32.9871, 0.4549, 0.4465



Tritanopia

33.4571, 0.2375, 0.3061

Trichromacy



Original Color

33.7680, 0.3007, 0.5844



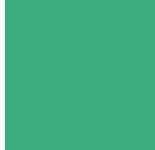
Protanomaly

31.1058, 0.3706, 0.5330



Deuteranomaly

30.3631, 0.3809, 0.5076



Tritanomaly

32.7391, 0.2646, 0.4172

Monochromacy



Original Color

33.7680, 0.3007, 0.5844



Achromatopsia

18.1164, 0.3127, 0.3290



Achromatomaly

21.6369, 0.3072, 0.4458

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.7680, 0.3007, 0.5844 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(27, 182, 27)` looks like.

```
.text, #text, p{  
    color:rgb(27, 182, 27)  
}
```

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(27, 182, 27) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(27, 182, 27) }
```

Border

The CSS property to change the border of an element to Yxy 33.7680, 0.3007, 0.5844 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(27, 182, 27) }
```

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

```
.border{ border-color:rgb(27, 182, 27) }
```

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

Here you see how a box with a 4 pixel rgb(27, 182, 27) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(27, 182, 27); -webkit-box-  
shadow:4px 4px 4px 4px rgb(27, 182, 27);  
box-shadow:4px 4px 4px 4px rgb(27, 182,  
27) }
```


Background

The CSS property to change the background color of an element to Yxy 33.7680, 0.3007, 0.5844 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(27, 182, 27) }
```

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

```
.background{ background-color: rgb(27, 182,  
27) }
```

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