

Converting Colors

$Y_{xy}(30.3441, 0.1981, 0.4750)$

Have a look what the booklet for
Yxy(30.3441, 0.1981, 0.4750)
contains.

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Color

Yxy(33.8348, 0.2599, 0.4555)

Conversions

Conversions Part 1

Format	Color
Hex	00B471
RGB	0, 180, 113
RGB Percent	0%, 71%, 44%
CMY	0.9987, 0.2941, 0.5568
CMYK	1.00, 0.00, 0.37, 0.29
HSL	158°, 100%, 35%
HSV	158°, 100%, 71%
XYZ	19.3055, 33.8348, 21.1403
YIQ	118.5420, -85.7730, -58.9970

Conversions

Conversions Part 2

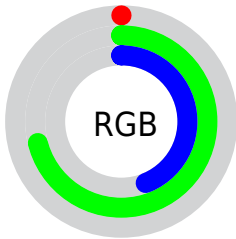
Format	Color
RYB	0, 111, 180
Decimal	46193
CIELab	64.83, -54.50, 23.55
CIELCh	65, 59.370, 156.626
Yxy	33.8348, 0.2599, 0.4555
Android (android.graphics.Color)	4278236273 (0xFF00B471)
YUV	118.5420, -2.7322, -103.9613
Hunter-Lab	58.1677, -42.5503, 19.1692

Details

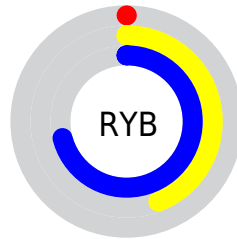
The Yxy color **33.8348, 0.2599, 0.4555** is a dark color, and the websafe version is hex **00CC99**. A complement of this color would be **10.1192, 0.5478, 0.2793**, and the grayscale version is **18.3577, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.7179, 0.2721, 0.4279**, and **15.2919, 0.2702, 0.4927** is the 20% darker color. If you saturate the color by 10%, you get **33.8312, 0.2599, 0.4558**, and if you desaturate by 10%, it is **34.1226, 0.2581, 0.4415**.

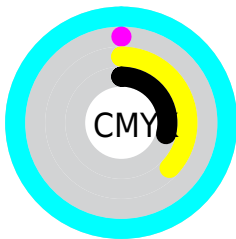
Distribution



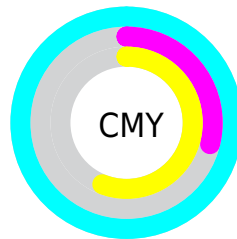
- Red (0%)
- Green (71%)
- Blue (44%)



- Red (0%)
- Yellow (44%)
- Blue (71%)



- Cyan (100%)
- Magenta (0%)
- Yellow (37%)
- Black (29%)





- Cyan (100%)
- Magenta (29%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 33.8348, 0.2599, 0.4555 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 33.8348, 0.2599, 0.4555 by changing the saturation by 10% instead.

 33.8348, 0.2599,
0.4555


 33.8348, 0.2599,
0.4555


319.3948, 0.2900,
0.3842

 22.7667, 0.2510,
0.4763


 65.6767, 0.2718,
0.4275

 14.4213, 0.2386,
0.5050


 87.2193, 0.2760,
0.4176


 8.4143, 0.2204,
0.5468


 113.0222, 0.2794,
0.4095

 4.3612, 0.1914,
0.6122

 143.4697, 0.2822,
0.4028

 1.8776, 0.1024,
0.8349

 178.9464, 0.2846,
0.3971

 0.5348, 0.0000,
1.0000

 219.8365, 0.2866,

 0.0000, 0.0000,

0.3922

0.0000

266.5245, 0.2884,
0.3879

■ 33.8348, 0.2599,
0.4555

■ 33.8348, 0.2599,
0.4555

■ 33.8312, 0.2599,
0.4558

■ 34.1226, 0.2581,
0.4415

■ 34.5401, 0.2579,
0.4272

■ 35.1324, 0.2597,
0.4129

■ 35.9211, 0.2635,
0.3987

■ 36.9247, 0.2690,
0.3850

■ 38.1594, 0.2760,
0.3719

■ 39.6399, 0.2842,
0.3597

■ 41.3794, 0.2932,
0.3484

■ 43.3904, 0.3029,
0.3381

Harmonies

Analogous

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



33.8348, 0.3446, 0.5001



33.8348, 0.2599, 0.4555



33.8348, 0.1944, 0.3568

Triad

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



33.8348, 0.2599, 0.4555



33.8348, 0.1958, 0.1943



33.8348, 0.4902, 0.3511

Complementary

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



33.8348, 0.2599, 0.4555



10.1192, 0.5478, 0.2793

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.



33.8348, 0.4397, 0.2894



33.8348, 0.2599, 0.4555



33.8348, 0.2593, 0.2040

Square

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



33.8348, 0.2599, 0.4555



33.8348, 0.1639, 0.2127



33.8348, 0.3492, 0.2376



33.8348, 0.4814, 0.4162

Rectangle

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



33.8348, 0.2599, 0.4555



33.8348, 0.1694, 0.2926



33.8348, 0.3492, 0.2376



33.8348, 0.4798, 0.3299

Sweetspot

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



33.8361, 0.2599, 0.4555



71.6757, 0.2836, 0.3605



33.9148, 0.3225, 0.5820



15.2419, 0.2801, 0.3655



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.



33.8361, 0.2599, 0.4555



61.2988, 0.2606, 0.4581



28.1061, 0.2145, 0.2920



9.5767, 0.3034, 0.3376



23.6263, 0.2595, 0.4541



0.7542, 0.2486, 0.4149

Inverse Universe

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



10.1192, 0.5478, 0.2793



18.2898, 0.5526, 0.2818



10.2509, 0.6297, 0.3380



8.5559, 0.3231, 0.3205



7.0681, 0.5452, 0.2777



0.2339, 0.4687, 0.2356

Previews

White Background



This preview shows how the Yxy color 33.8348, 0.2599, 0.4555 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 33.8348, 0.2599, 0.4555 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 33.8348, 0.2599, 0.4555

Background



This preview shows how black text looks on a background with the Yxy color 33.8348, 0.2599, 0.4555.



This preview shows how white text looks on a background with the Yxy color 33.8348, 0.2599, 0.4555.

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

33.8348, 0.2599, 0.4555

Protanopia

33.3023, 0.3777, 0.4069

Deuteranopia

33.2360, 0.3781, 0.3715



Tritanopia

33.7186, 0.2308, 0.3059

Trichromacy



Original Color

33.8348, 0.2599, 0.4555



Protanomaly

31.1599, 0.3088, 0.4316



Deuteranomaly

30.5560, 0.3091, 0.4055



Tritanomaly

33.2467, 0.2383, 0.3552

Monochromacy



Original Color

33.8348, 0.2599, 0.4555



Achromatopsia

18.4475, 0.3127, 0.3290



Achromatomaly

21.8706, 0.2719, 0.3783

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.8348, 0.2599, 0.4555 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(0, 180, 113)` looks like.

```
.text, #text, p{  
  color:rgb(0, 180, 113)  
}
```

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(0, 180, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 180, 113) }
```

Border

The CSS property to change the border of an element to Yxy 33.8348, 0.2599, 0.4555 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(0, 180, 113) }
```

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

```
.border{ border-color:rgb(0, 180, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 180, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 180, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 180, 113);  
box-shadow:4px 4px 4px 4px rgb(0, 180,  
113) }
```


Background

The CSS property to change the background color of an element to Yxy 33.8348, 0.2599, 0.4555 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 180, 113) }
```

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

```
.background{ background-color: rgb(0, 180,  
113) }
```

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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