

# Converting Colors

$Y_{xy}(33.5755, 0.2627, 0.4657)$

Have a look what the booklet for  
Yxy(33.5755, 0.2627, 0.4657)  
contains.

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# Color

**Yxy(33.7252, 0.2626, 0.4655)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B46C
RGB	0, 180, 108
RGB Percent	0%, 71%, 42%
CMY	1.0000, 0.2941, 0.5764
CMYK	1.00, 0.00, 0.40, 0.29
HSL	156°, 100%, 35%
HSV	156°, 100%, 71%
XYZ	19.0252, 33.7252, 19.6990
YIQ	117.9720, -84.1680, -60.5520

# Conversions

## Conversions Part 2

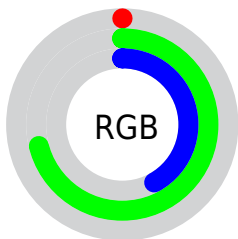
Format	Color
<a href="#">RYB</a>	0, 113, 180
Decimal	46188
CIELab	64.74, -55.55, 26.10
CIELCh	65, 61.376, 154.836
Yxy	33.7252, 0.2626, 0.4655
Android (android.graphics.Color)	4278236268 (0xFF00B46C)
YUV	117.9720, -4.9162, -103.4614
Hunter-Lab	58.0734, -43.1507, 20.5397

# Details

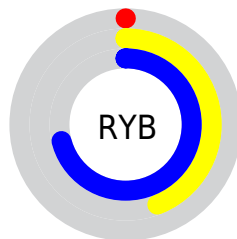
The Yxy color **33.7252, 0.2626, 0.4655** is a dark color, and the websafe version is hex **00CC99**. A complement of this color would be **10.1720, 0.5374, 0.2734**, and the grayscale version is **18.1451, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.4861, 0.2741, 0.4353**, and **15.2375, 0.2738, 0.5057** is the 20% darker color. If you saturate the color by 10%, you get **33.7289, 0.2626, 0.4655**, and if you desaturate by 10%, it is **34.0172, 0.2606, 0.4505**.

# Distribution



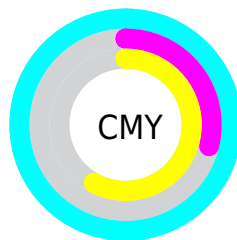
- Red (0%)
- Green (71%)
- Blue (42%)



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



- Cyan (100%)
- Magenta (0%)
- Yellow (40%)
- Black (29%)




- Cyan (100%)
- Magenta (29%)
- Yellow (58%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.7252, 0.2626, 0.4655 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 33.7252, 0.2626, 0.4655 by changing the saturation by 10% instead.




 33.7252, 0.2626,  
0.4655


 33.7252, 0.2626,  
0.4655


318.9050, 0.2917,  
0.3883

 22.6826, 0.2538,  
0.4881


 65.5061, 0.2743,  
0.4351


 14.3593, 0.2414,  
0.5193


 87.0132, 0.2783,  
0.4244

 8.3710, 0.2229,  
0.5647


 112.7772, 0.2816,  
0.4156

 4.3332, 0.1930,  
0.6353

 143.1825, 0.2843,  
0.4083

 1.8617, 0.0949,  
0.9051

 178.6135, 0.2866,  
0.4022

 0.5252, 0.0000,  
1.0000

 219.4547, 0.2885,

 0.0000, 0.0000,

0.3969

0.0000

266.0904, 0.2902,  
0.3923

■ 33.7252, 0.2626,  
0.4655

■ 33.7252, 0.2626,  
0.4655

■ 33.7289, 0.2626,  
0.4655

■ 34.0172, 0.2606,  
0.4505

■ 34.4364, 0.2602,  
0.4352

■ 35.0316, 0.2617,  
0.4197

■ 35.8245, 0.2652,  
0.4044

■ 36.8337, 0.2705,  
0.3895

■ 38.0755, 0.2772,  
0.3754

■ 39.5647, 0.2850,  
0.3622

■ 41.3146, 0.2938,  
0.3501

■ 43.3377, 0.3031,  
0.3390

# Harmonies

## Analogous

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



33.7252, 0.3501, 0.5066



33.7252, 0.2626, 0.4655



33.7252, 0.1938, 0.3640

# Triad

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



33.7252, 0.2626, 0.4655



33.7252, 0.1896, 0.1908



33.7252, 0.4948, 0.3470

# Complementary

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



33.7252, 0.2626, 0.4655



10.1720, 0.5374, 0.2734

# 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.



33.7252, 0.4393, 0.2844



33.7252, 0.2626, 0.4655



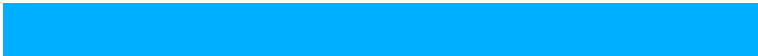
33.7252, 0.2526, 0.1993

# Square

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



33.7252, 0.2626, 0.4655



33.7252, 0.1589, 0.2112



33.7252, 0.3443, 0.2323



33.7252, 0.4885, 0.4137



# Rectangle

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



33.7252, 0.2626, 0.4655



33.7252, 0.1668, 0.2962



33.7252, 0.3443, 0.2323



33.7252, 0.4829, 0.3254

# Sweetspot

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



33.7289, 0.2626, 0.4655



71.5821, 0.2846, 0.3629



34.0237, 0.3242, 0.5808



15.2195, 0.2812, 0.3682



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.



33.7289, 0.2626, 0.4655



61.1044, 0.2633, 0.4679



29.1389, 0.2159, 0.2974



9.5728, 0.3037, 0.3383



23.5519, 0.2621, 0.4637



0.7522, 0.2505, 0.4216



# Inverse Universe

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



10.1720, 0.5374, 0.2734



18.3991, 0.5416, 0.2757



10.1369, 0.6319, 0.3364



8.5597, 0.3226, 0.3199



7.1113, 0.5343, 0.2717



0.2354, 0.4608, 0.2312



# Previews

## White Background



This preview shows how the Yxy color 33.7252, 0.2626, 0.4655 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 33.7252, 0.2626, 0.4655 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 33.7252, 0.2626, 0.4655**

## Background



This preview shows how black text looks on a background with the Yxy color 33.7252, 0.2626, 0.4655.



This preview shows how white text looks on a background with the Yxy color 33.7252, 0.2626, 0.4655.

# 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

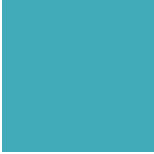
33.7252, 0.2626, 0.4655

### Protanopia

33.2048, 0.3823, 0.4139

### Deuteranopia

32.9230, 0.3848, 0.3770



## **Tritanopia**

33.7524, 0.2311, 0.3059

# Trichromacy



## Original Color

33.7252, 0.2626, 0.4655



## Protanomaly

31.0577, 0.3126, 0.4405



## Deuteranomaly

30.0934, 0.3134, 0.4130



## Tritanomaly

33.1778, 0.2394, 0.3589

# Monochromacy



## Original Color

33.7252, 0.2626, 0.4655



## Achromatopsia

18.1164, 0.3127, 0.3290



## Achromatomaly

21.7605, 0.2736, 0.3849

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.7252, 0.2626, 0.4655 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, 108)` looks like.

```
.text, #text, p{  
    color:rgb(0, 180, 108)  
}
```

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, 108) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 180, 108) }
```

## Border

The CSS property to change the border of an element to Yxy 33.7252, 0.2626, 0.4655 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, 108) }
```

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

```
.border{ border-color:rgb(0, 180, 108) }
```

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, 108)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 180, 108); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 180, 108);  
box-shadow:4px 4px 4px 4px rgb(0, 180,  
108) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.7252, 0.2626, 0.4655 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, 108) }
```

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

```
.background{ background-color: rgb(0, 180,  
108) }
```

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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