

# Converting Colors

$Y_{xy}(35.0805, 0.2401, 0.4019)$

Have a look what the booklet for  
Yxy(35.0805, 0.2401, 0.4019)  
contains.

<b>Yxy(35.4089, 0.2447, 0.4010)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**$\text{Yxy}(35.4089, 0.2447, 0.4010)$**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B68E
RGB	0, 182, 142
RGB Percent	0%, 71%, 56%
CMY	1.0000, 0.2862, 0.4431
CMYK	1.00, 0.00, 0.22, 0.29
HSL	167°, 100%, 36%
HSV	167°, 100%, 71%
XYZ	21.6074, 35.4089, 31.2852
YIQ	123.0220, -95.6320, -51.0240

# Conversions

## Conversions Part 2

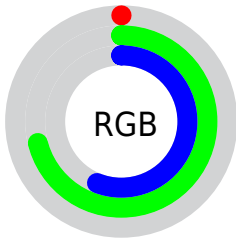
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 102, 182
Decimal	46734
CIELab	66.07, -48.57, 9.52
CIELCh	66, 49.498, 168.913
Yxy	35.4089, 0.2447, 0.4010
Android (android.graphics.Color)	4278236814 (0xFF00B68E)
YUV	123.0220, 9.3562, -107.8903
Hunter-Lab	59.5054, -39.3181, 10.4818

# Details

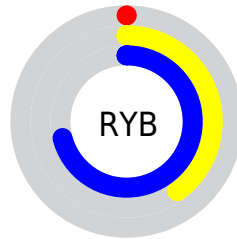
The Yxy color **35.4089, 0.2447, 0.4010** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **10.0993, 0.6018, 0.3089**, and the grayscale version is **19.8085, 0.3127, 0.3290**.

A 20% lighter version of the original color is **68.2053, 0.2582, 0.3857**, and **16.2110, 0.2500, 0.4199** is the 20% darker color. If you saturate the color by 10%, you get **35.4121, 0.2447, 0.4010**, and if you desaturate by 10%, it is **35.6650, 0.2443, 0.3930**.

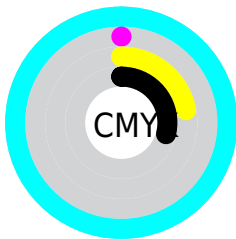
# Distribution



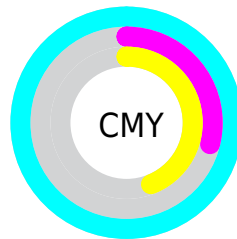
- Red (0%)
- Green (71%)
- Blue (56%)



- Red (0%)
- Yellow (40%)
- Blue (71%)



- Cyan (100%)
- Magenta (0%)
- Yellow (22%)
- Black (29%)




- Cyan (100%)
- Magenta (29%)
- Yellow (44%)


# Brightness & Saturation Gradients


These gradients show how the Yxy color 35.4089, 0.2447, 0.4010 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 35.4089, 0.2447, 0.4010 by changing the saturation by 10% instead.





 35.4089, 0.2447,  
0.4010


 35.4089, 0.2447,  
0.4010


 326.3695, 0.2807,  
0.3619

 23.9780, 0.2350,  
0.4119


 68.1187, 0.2583,  
0.3860

 15.3173, 0.2223,  
0.4265


 90.1665, 0.2632,  
0.3806

 9.0424, 0.2046,  
0.4474


 116.5220, 0.2674,  
0.3762

 4.7688, 0.1787,  
0.4792

 147.5696, 0.2709,  
0.3724

 2.1123, 0.1287,  
0.5386

 183.6938, 0.2739,  
0.3692

 0.6715, 0.0000,  
0.9109

 225.2789, 0.2765,

 0.0000, 0.0000,

0.3664

0.0000

272.7094, 0.2787,  
0.3640

■ 35.4089, 0.2447,  
0.4010

■ 35.4089, 0.2447,  
0.4010

■ 35.4121, 0.2447,  
0.4010

■ 35.6650, 0.2443,  
0.3930

■ 36.0435, 0.2454,  
0.3850

■ 36.5933, 0.2484,  
0.3770

■ 37.3366, 0.2534,  
0.3690

■ 38.2923, 0.2601,  
0.3613

■ 39.4767, 0.2685,  
0.3539

■ 40.9049, 0.2782,  
0.3469

■ 42.5904, 0.2890,  
0.3404

■ 44.5458, 0.3006,  
0.3344

# Harmonies

## Analogous

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



35.4089, 0.3124, 0.4592



35.4089, 0.2447, 0.4010



35.4089, 0.1987, 0.3201

# Triad

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



35.4089, 0.2447, 0.4010



35.4089, 0.2334, 0.2149



35.4089, 0.4631, 0.3742

# Complementary

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



35.4089, 0.2447, 0.4010



10.0993, 0.6018, 0.3089

# 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.



35.4089, 0.4397, 0.3186



35.4089, 0.2447, 0.4010



35.4089, 0.2979, 0.2320

# Square

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



35.4089, 0.2447, 0.4010



35.4089, 0.1940, 0.2215



35.4089, 0.3757, 0.2687



35.4089, 0.4403, 0.4278



# Rectangle

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



35.4089, 0.2447, 0.4010



35.4089, 0.1843, 0.2741



35.4089, 0.3757, 0.2687



35.4089, 0.4607, 0.3555

# Sweetspot

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



35.4121, 0.2447, 0.4010



74.0105, 0.2777, 0.3473



33.9614, 0.3090, 0.5928



16.0961, 0.2735, 0.3502



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.



35.4121, 0.2447, 0.4010



64.1588, 0.2451, 0.4023



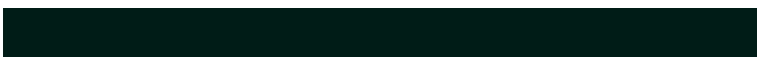
20.2825, 0.2000, 0.2401



10.1759, 0.3014, 0.3341



25.0154, 0.2445, 0.4001



0.8904, 0.2388, 0.3795



# Inverse Universe

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



10.0993, 0.6018, 0.3089



18.2795, 0.6055, 0.3109



12.1040, 0.6038, 0.3588



9.0437, 0.3254, 0.3240



7.1397, 0.5991, 0.3074

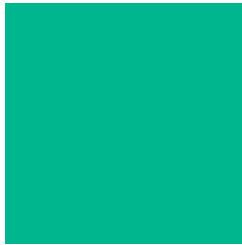


0.2611, 0.5269, 0.2677



# Previews

## White Background



This preview shows how the Yxy color 35.4089, 0.2447, 0.4010 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 35.4089, 0.2447, 0.4010 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

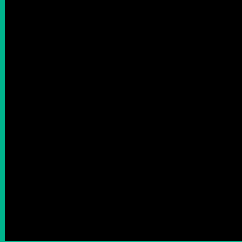
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 35.4089, 0.2447, 0.4010**

## **Background**



This preview shows how black text looks on a background with the Yxy color 35.4089, 0.2447, 0.4010.

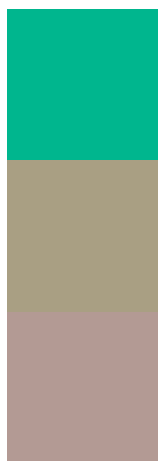


This preview shows how white text looks on a background with the Yxy color 35.4089, 0.2447, 0.4010.

# 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

35.4089, 0.2447, 0.4010

### Protanopia

34.8700, 0.3488, 0.3702

### Deuteranopia

34.8330, 0.3439, 0.3375



## Tritanopia

35.6091, 0.2275, 0.3063

# Trichromacy



## Original Color

35.4089, 0.2447, 0.4010



## Protanomaly

32.5748, 0.2872, 0.3838



## Deuteranomaly

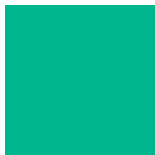
32.2036, 0.2833, 0.3591



## Tritanomaly

35.2330, 0.2315, 0.3372

# Monochromacy



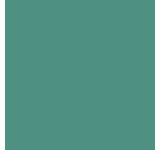
## Original Color

35.4089, 0.2447, 0.4010



## Achromatopsia

19.8069, 0.3127, 0.3290



## Achromatomaly

23.1779, 0.2637, 0.3565

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 35.4089, 0.2447, 0.4010 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, 182, 142)` looks like.

```
.text, #text, p{  
    color:rgb(0, 182, 142)  
}
```

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, 182, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 182, 142) }
```

## Border

The CSS property to change the border of an element to Yxy 35.4089, 0.2447, 0.4010 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, 182, 142) }
```

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

```
.border{ border-color:rgb(0, 182, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 182, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 182, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 182, 142);  
box-shadow:4px 4px 4px 4px rgb(0, 182,  
142) }
```



# Background

The CSS property to change the background color of an element to Yxy 35.4089, 0.2447, 0.4010 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 182, 142) }
```

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

```
.background{ background-color: rgb(0, 182,  
142) }
```

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