

# Converting Colors

$Yxy(33.7228, 0.2346, 0.3584)$

Have a look what the booklet for  
Yxy(33.7228, 0.2346, 0.3584)  
contains.

<b>Yxy(33.6825, 0.2348, 0.3589)</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

**Yxy(33.6825, 0.2348, 0.3589)**

# Conversions

## Conversions Part 1

Format	Color
Hex	12B09F
RGB	18, 176, 159
RGB Percent	7%, 69%, 62%
CMY	0.9281, 0.3098, 0.3766
CMYK	0.90, 0.00, 0.10, 0.31
HSL	174°, 81%, 38%
HSV	174°, 90%, 69%
XYZ	22.0358, 33.6825, 38.1310
YIQ	126.8200, -88.7110, -38.7830

# Conversions

## Conversions Part 2

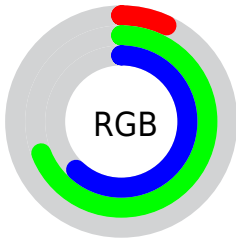
Format	Color
<b>RYB</b>	18, 101, 176
Decimal	1224863
CIELab	64.71, -40.73, -1.82
CIELCh	65, 40.766, 182.556
Yxy	33.6825, 0.2348, 0.3589
Android (android.graphics.Color)	4279414943 (0xFF12B09F)
YUV	126.8200, 15.8647, -95.4351
Hunter-Lab	58.0366, -33.7898, 1.6712

# Details

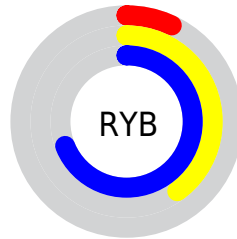
The Yxy color **33.6825, 0.2348, 0.3589** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **9.7969, 0.5991, 0.3184**, and the grayscale version is **21.1609, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.2776, 0.2496, 0.3523**, and **15.0018, 0.2344, 0.3638** is the 20% darker color. If you saturate the color by 10%, you get **33.4912, 0.2341, 0.3626**, and if you desaturate by 10%, it is **33.9923, 0.2369, 0.3552**.

# Distribution



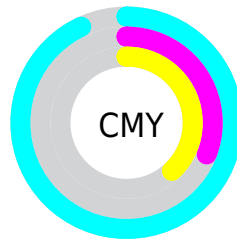
- Red (7%)
- Green (69%)
- Blue (62%)



- Red (7%)
- Yellow (40%)
- Blue (69%)



- Cyan (90%)
- Magenta (0%)
- Yellow (10%)
- Black (31%)



- Cyan (93%)
- Magenta (31%)
- Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 33.6825, 0.2348, 0.3589 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 33.6825, 0.2348, 0.3589 by changing the saturation by 10% instead.





 33.6825, 0.2348,  
0.3589


 33.6825, 0.2348,  
0.3589


318.7140, 0.2753,  
0.3436


 22.6498, 0.2242,  
0.3628


 65.4396, 0.2499,  
0.3533

 14.3351, 0.2105,  
0.3678


 86.9328, 0.2554,  
0.3512


 8.3541, 0.1918,  
0.3745


 112.6817, 0.2601,  
0.3494

 4.3224, 0.1652,  
0.3837

 143.0705, 0.2640,  
0.3479

 1.8555, 0.1192,  
0.3995

 178.4838, 0.2674,  
0.3466

 0.5214, 0.0000,  
0.4287

 219.3059, 0.2704,

 0.0000, 0.0000,

0.3455

0.0000

265.9211, 0.2730,  
0.3445

■ 33.6825, 0.2348,  
0.3589

■ 33.6825, 0.2348,  
0.3589

■ 33.4912, 0.2341,  
0.3626

■ 33.9923, 0.2369,  
0.3552

■ 33.4837, 0.2341,  
0.3627

■ 34.4574, 0.2409,  
0.3515

■ 35.0992, 0.2467,  
0.3479

■ 35.9348, 0.2544,  
0.3443

■ 36.9793, 0.2638,  
0.3408

■ 38.2464, 0.2746,  
0.3375

■ 39.7486, 0.2867,  
0.3344

■ 41.4973, 0.2996,  
0.3315

■ 43.5033, 0.3133,  
0.3289

# Harmonies

## Analogous

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



33.6825, 0.2863, 0.4187



33.6825, 0.2348, 0.3589



33.6825, 0.2055, 0.2954

# Triad

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



33.6825, 0.2348, 0.3589



33.6825, 0.2685, 0.2351



33.6825, 0.4357, 0.3915

# Complementary

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



33.6825, 0.2348, 0.3589



9.7969, 0.5991, 0.3184

# 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.



33.6825, 0.4330, 0.3435



33.6825, 0.2348, 0.3589



33.6825, 0.3304, 0.2583

# Square

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



33.6825, 0.2348, 0.3589



33.6825, 0.2236, 0.2316



33.6825, 0.3930, 0.2966



33.6825, 0.4031, 0.4309



# Rectangle

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



33.6825, 0.2348, 0.3589



33.6825, 0.2004, 0.2631



33.6825, 0.3930, 0.2966



33.6825, 0.4392, 0.3759

# Sweetspot

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



33.6838, 0.2348, 0.3589



69.9072, 0.2770, 0.3368



31.4826, 0.3054, 0.5866



14.9685, 0.2732, 0.3379



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.



33.6838, 0.2348, 0.3589



60.7104, 0.2343, 0.3633



15.6563, 0.1950, 0.2136



9.6154, 0.3000, 0.3315



24.5739, 0.2340, 0.3623



0.7777, 0.2311, 0.3521



# Inverse Universe

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



9.7969, 0.5991, 0.3184



16.8096, 0.6292, 0.3240



14.8341, 0.5475, 0.3905



8.5197, 0.3271, 0.3266



6.8113, 0.6250, 0.3217

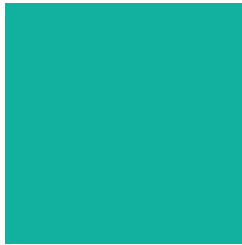


0.2191, 0.5741, 0.2936



# Previews

## White Background



This preview shows how the Yxy color 33.6825, 0.2348, 0.3589 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 33.6825, 0.2348, 0.3589 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 33.6825, 0.2348, 0.3589**

## **Background**



This preview shows how black text looks on a background with the Yxy color 33.6825, 0.2348, 0.3589.

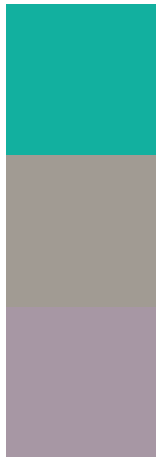


This preview shows how white text looks on a background with the Yxy color 33.6825, 0.2348, 0.3589.

# 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

33.6825, 0.2348, 0.3589

### Protanopia

33.1263, 0.3262, 0.3410

### Deuteranopia

33.0290, 0.3166, 0.3103



## **Tritanopia**

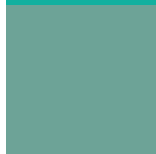
33.6546, 0.2252, 0.3057

# Trichromacy



## Original Color

33.6825, 0.2348, 0.3589



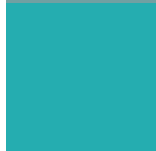
## Protanomaly

31.6800, 0.2754, 0.3491



## Deuteranomaly

31.2610, 0.2698, 0.3256



## Tritanomaly

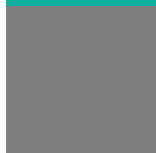
33.4150, 0.2280, 0.3237

# Monochromacy



## Original Color

33.6825, 0.2348, 0.3589



## Achromatopsia

21.2231, 0.3127, 0.3290



## Achromatomaly

24.1411, 0.2638, 0.3402

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 33.6825, 0.2348, 0.3589 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, 176, 159)` looks like.

```
.text, #text, p{  
    color:rgb(18, 176, 159)  
}
```

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, 176, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 176, 159) }
```

## Border

The CSS property to change the border of an element to Yxy 33.6825, 0.2348, 0.3589 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, 176, 159) }
```

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

```
.border{ border-color:rgb(18, 176, 159) }
```

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

Here you see how a box with a 4 pixel rgb(18, 176, 159) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 176, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 176, 159);  
box-shadow:4px 4px 4px 4px rgb(18, 176,  
159) }
```



# Background

The CSS property to change the background color of an element to Yxy 33.6825, 0.2348, 0.3589 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 176, 159) }
```

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

```
.background{ background-color: rgb(18, 176,  
159) }
```

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