

# Converting Colors

$Y_{xy}(34.5020, 0.2603, 0.4197)$



Have a look what the booklet for  
Yxy(34.5020, 0.2603, 0.4197)  
contains.

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**Color**

**Yxy(34.5033, 0.2603, 0.4197)**



# Conversions

Conversions Part 1	
Format	Color
Hex	32B381
RGB	50, 179, 129
RGB Percent	20%, 70%, 51%
CMY	0.8039, 0.2980, 0.4940
CMYK	0.72, 0.00, 0.28, 0.30
HSL	157°, 56%, 45%
HSV	157°, 72%, 70%
XYZ	21.3991, 34.5033, 26.3070
YIQ	134.7290, -60.8340, -42.8980



# Conversions

## Conversions Part 2

Format	Color
<a href="#">RYB</a>	<a href="#">50, 130, 179</a>
Decimal	<a href="#">3322753</a>
CIELab	<a href="#">65.36, -46.52, 15.71</a>
CIELCh	<a href="#">65, 49.097, 161.339</a>
Yxy	<a href="#">34.5033, 0.2603, 0.4197</a>
Android (android.graphics.Color)	<a href="#">4281512833</a> (0xFF32B381)
YUV	<a href="#">134.7290, -2.8244, -74.3073</a>
Hunter-Lab	<a href="#">58.7395, -37.7656, 14.5641</a>



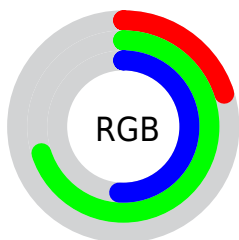
# Details

The Yxy color **34.5033, 0.2603, 0.4197** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **12.7859, 0.4573, 0.2654**, and the grayscale version is **24.1525, 0.3127, 0.3290**.

A 20% lighter version of the original color is **66.9457, 0.2715, 0.4006**, and **15.2464, 0.2575, 0.4471** is the 20% darker color. If you saturate the color by 10%, you get **33.9569, 0.2591, 0.4347**, and if you desaturate by 10%, it is **35.2428, 0.2635, 0.4049**.



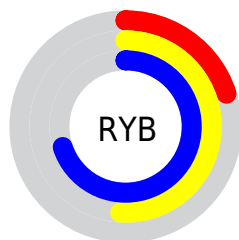
# Distribution



Red (20%)

Green (70%)

Blue (51%)



Red (20%)

Yellow (51%)

Blue (70%)

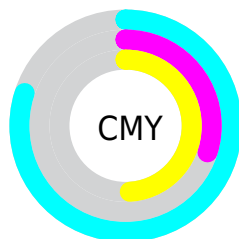


Cyan (72%)

Magenta (0%)

Yellow (28%)

Black (30%)



Cyan (80%)

Magenta (30%)

Yellow (49%)





# Brightness & Saturation Gradients

These gradients show how the Yxy color 34.5033, 0.2603, 0.4197 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 34.5033, 0.2603, 0.4197 by changing the saturation by 10% instead.





 34.5033, 0.2603,  
0.4197


 34.5033, 0.2603,  
0.4197


322.3705, 0.2890,  
0.3695


 23.2805, 0.2523,  
0.4340


 66.7156, 0.2713,  
0.4002


 14.8008, 0.2414,  
0.4537


 88.4739, 0.2753,  
0.3933


 8.6797, 0.2258,  
0.4821


 114.5128, 0.2786,  
0.3875

 4.5328, 0.2020,  
0.5264

 145.2167, 0.2813,  
0.3828

 1.9759, 0.1498,  
0.6156

 180.9700, 0.2836,  
0.3787

 0.5934, 0.0000,  
1.0000

222.1572, 0.2857,


 0.0000, 0.0000,





0.3752


0.0000


269.1625, 0.2874,  
0.3722


 34.5033, 0.2603,  
0.4197

 34.5033, 0.2603,  
0.4197


 33.9569, 0.2591,  
0.4347

 35.2428, 0.2635,  
0.4049


 33.5771, 0.2598,  
0.4494

 36.1901, 0.2685,  
0.3904

 33.3588, 0.2614,  
0.4610


 37.3630, 0.2751,  
0.3766


 38.7763, 0.2828,  
0.3637

 40.4434, 0.2916,  
0.3517



 42.3767, 0.3009,  
0.3408

 44.5880, 0.3107,  
0.3309

 47.0881, 0.3206,  
0.3221

 49.8873, 0.3305,  
0.3142



# Harmonies

## Analogous

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



34.5033, 0.3309, 0.4658



34.5033, 0.2603, 0.4197



34.5033, 0.2076, 0.3402



# Triad

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



34.5033, 0.2603, 0.4197



34.5033, 0.2208, 0.2142



34.5033, 0.4618, 0.3600



# Complementary

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



34.5033, 0.2603, 0.4197



12.7859, 0.4573, 0.2654



# 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.



34.5033, 0.4266, 0.3051



34.5033, 0.2603, 0.4197



34.5033, 0.2796, 0.2256



# Square

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



34.5033, 0.2603, 0.4197



34.5033, 0.1883, 0.2273



34.5033, 0.3561, 0.2579



34.5033, 0.4500, 0.4151



# Rectangle

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



34.5033, 0.2603, 0.4197



34.5033, 0.1882, 0.2901



34.5033, 0.3561, 0.2579



34.5033, 0.4553, 0.3413



# Sweetspot

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



34.5047, 0.2603, 0.4197



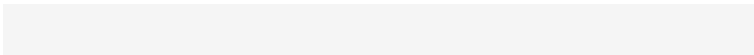
72.3320, 0.2913, 0.3521



35.2730, 0.3350, 0.5339



15.8392, 0.2889, 0.3552



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.



34.5047, 0.2603, 0.4197



60.4136, 0.2592, 0.4427



31.2428, 0.2270, 0.3069



9.5746, 0.3036, 0.3380



23.5855, 0.2609, 0.4593



0.7531, 0.2496, 0.4185







# Inverse Universe

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



12.7859, 0.4573, 0.2654



19.3454, 0.5054, 0.2669



13.3592, 0.5398, 0.3444



8.5580, 0.3228, 0.3202



7.0910, 0.5393, 0.2745



0.2347, 0.4644, 0.2332







# Previews

## White Background



This preview shows how the Yxy color 34.5033, 0.2603, 0.4197 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 34.5033, 0.2603, 0.4197 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 34.5033, 0.2603, 0.4197**

## Background



This preview shows how black text looks on a background with the Yxy color 34.5033, 0.2603, 0.4197.



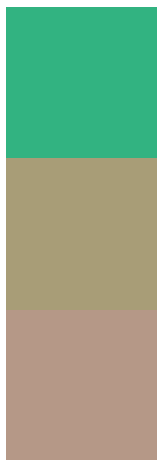
This preview shows how white text looks on a background with the Yxy color 34.5033, 0.2603, 0.4197.



# 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

34.5033, 0.2603, 0.4197

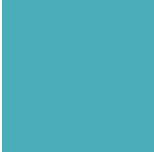
### Protanopia

33.7707, 0.3599, 0.3854

### Deuteranopia

34.0295, 0.3597, 0.3532



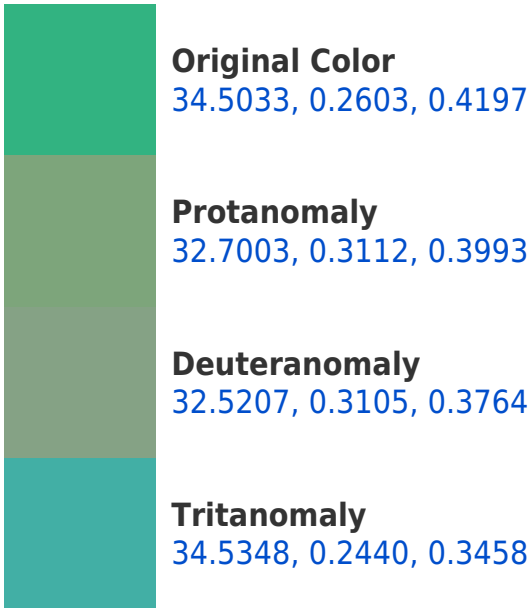


## Tritanopia

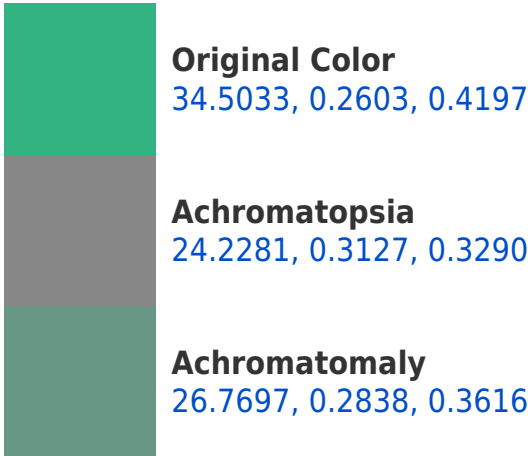
34.5461, 0.2351, 0.3063



# Trichromacy



# Monochromacy





# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 34.5033, 0.2603, 0.4197 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(50, 179, 129) looks like.

```
.text, #text, p{  
    color:rgb(50, 179, 129)  
}
```



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(50, 179, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 179, 129) }
```

## Border

The CSS property to change the border of an element to Yxy 34.5033, 0.2603, 0.4197 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(50, 179, 129) }
```



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

```
.border{ border-color:rgb(50, 179, 129) }
```

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

Here you see how a box with a 4 pixel rgb(50, 179, 129) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 179, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 179, 129);  
box-shadow:4px 4px 4px 4px rgb(50, 179,  
129) }
```



# Background

The CSS property to change the background color of an element to Yxy 34.5033, 0.2603, 0.4197 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 179, 129) }
```

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

```
.background{ background-color: rgb(50, 179,  
129) }
```

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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