

# Converting Colors

$Y_{xy}(47.2222, 0.2531, 0.3429)$

Have a look what the booklet for  
Yxy(47.2222, 0.2531, 0.3429)  
contains.

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# Color

**Yxy(47.2303, 0.2535, 0.3434)**

# Conversions

## Conversions Part 1

Format	Color
Hex	64C7BD
RGB	100, 199, 189
RGB Percent	39%, 78%, 74%
CMY	0.6079, 0.2196, 0.2587
CMYK	0.50, 0.00, 0.05, 0.22
HSL	174°, 47%, 59%
HSV	174°, 50%, 78%
XYZ	34.8657, 47.2303, 55.4413
YIQ	168.2590, -55.7940, -24.0980

# Conversions

## Conversions Part 2

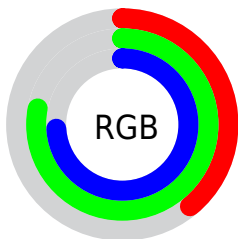
Format	Color
<a href="#">RYB</a>	<a href="#">100, 152, 199</a>
Decimal	<a href="#">6604733</a>
CIELab	<a href="#">74.34, -31.46, -3.95</a>
CIELCh	<a href="#">74, 31.707, 187.161</a>
Yxy	<a href="#">47.2303, 0.2535, 0.3434</a>
Android (android.graphics.Color)	<a href="#">4284794813</a> ( <a href="#">0xFF64C7BD</a> )
YUV	<a href="#">168.2590, 10.2253, -59.8631</a>
Hunter-Lab	<a href="#">68.7243, -29.7097, 0.2766</a>

# Details

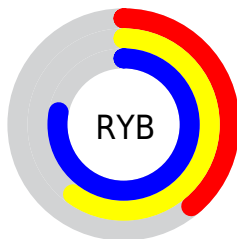
The Yxy color **47.2303, 0.2535, 0.3434** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **22.3792, 0.4372, 0.3164**, and the grayscale version is **39.2613, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.2807, 0.2638, 0.3401**, and **22.4217, 0.2375, 0.3473** is the 20% darker color. If you saturate the color by 10%, you get **46.1464, 0.2458, 0.3468**, and if you desaturate by 10%, it is **48.5962, 0.2629, 0.3401**.

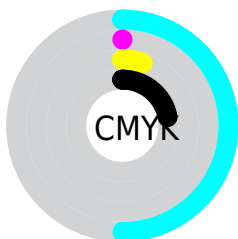
# Distribution



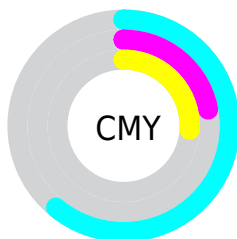
- Red (39%)
- Green (78%)
- Blue (74%)



- Red (39%)
- Yellow (60%)
- Blue (78%)



- Cyan (50%)
- Magenta (0%)
- Yellow (5%)
- Black (22%)




- Cyan (61%)
- Magenta (22%)
- Yellow (26%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.2303, 0.2535, 0.3434 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 47.2303, 0.2535, 0.3434 by changing the saturation by 10% instead.





 47.2303, 0.2535,  
0.3434

 47.2303, 0.2535,  
0.3434


375.7330, 0.2827,  
0.3366


 33.2178, 0.2464,  
0.3449


 86.0573, 0.2640,  
0.3410


 22.2933, 0.2373,  
0.3469


 111.6405, 0.2680,  
0.3401

 14.0726, 0.2255,  
0.3492


 141.8494, 0.2713,  
0.3393

 8.1712, 0.2093,  
0.3523

 177.0684, 0.2742,  
0.3387

 4.2047, 0.1860,  
0.3562

217.6819, 0.2768,  
0.3381

 1.7887, 0.1495,  
0.3612

264.0742, 0.2790,

 0.4801, 0.0000,

0.3375

0.3753

316.6298, 0.2809,  
0.3371

0.0000, 0.0000,  
0.0000

47.2303, 0.2535,  
0.3434

47.2303, 0.2535,  
0.3434

46.1464, 0.2458,  
0.3468

48.5962, 0.2629,  
0.3401

45.3184, 0.2400,  
0.3502

50.2571, 0.2738,  
0.3370

44.7247, 0.2361,  
0.3537


52.2316, 0.2860,  
0.3341


44.3378, 0.2341,  
0.3571

54.5353, 0.2992,  
0.3314


44.1064, 0.2335,  
0.3605


57.1829, 0.3131,  
0.3289

 44.1013, 0.2335,  
0.3606

 60.1880, 0.3273,  
0.3267

 63.5636, 0.3418,  
0.3247

 66.5187, 0.3528,  
0.3229

 66.6161, 0.3513,  
0.3208

# Harmonies

## Analogous

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



47.2303, 0.2890, 0.3842



47.2303, 0.2535, 0.3434



47.2303, 0.2342, 0.3013

# Triad

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



47.2303, 0.2535, 0.3434



47.2303, 0.2883, 0.2627



47.2303, 0.3972, 0.3806

# Complementary

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



47.2303, 0.2535, 0.3434



22.3792, 0.4372, 0.3164

# 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.



47.2303, 0.3982, 0.3469



47.2303, 0.2535, 0.3434



47.2303, 0.3328, 0.2818

# Square

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



47.2303, 0.2535, 0.3434



47.2303, 0.2531, 0.2584



47.2303, 0.3741, 0.3117



47.2303, 0.3724, 0.4040



# Rectangle

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



47.2303, 0.2535, 0.3434



47.2303, 0.2319, 0.2794



47.2303, 0.3741, 0.3117



47.2303, 0.4004, 0.3701

# Sweetspot

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



47.2321, 0.2535, 0.3434



93.2079, 0.2919, 0.3329



45.1824, 0.3130, 0.4819



19.7698, 0.2891, 0.3334



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



47.2321, 0.2535, 0.3434



80.6121, 0.2451, 0.3472



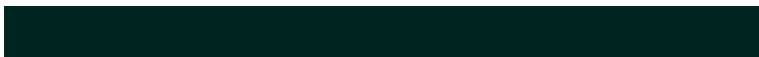
32.3383, 0.2371, 0.2708



12.0484, 0.2997, 0.3313



28.3648, 0.2334, 0.3601



1.3485, 0.2314, 0.3530



# Inverse Universe

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



22.3792, 0.4372, 0.3164



32.0566, 0.4834, 0.3148



31.2229, 0.4240, 0.3789



10.6540, 0.3274, 0.3267



7.8464, 0.6271, 0.3228

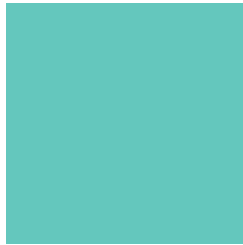


0.3776, 0.5887, 0.3017



# Previews

## White Background



This preview shows how the Yxy color 47.2303, 0.2535, 0.3434 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

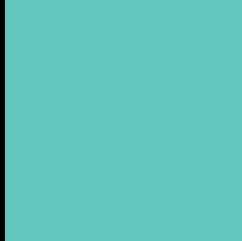
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.2303, 0.2535, 0.3434 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

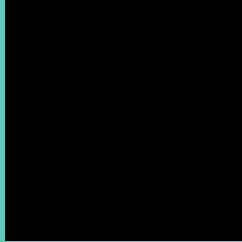
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

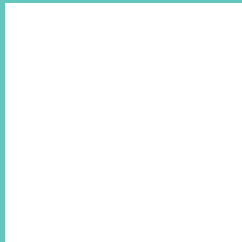
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 47.2303, 0.2535, 0.3434**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.2303, 0.2535, 0.3434.

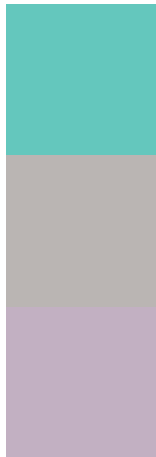


This preview shows how white text looks on a background with the Yxy color 47.2303, 0.2535, 0.3434.

# 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

47.2303, 0.2535, 0.3434

### Protanopia

46.7415, 0.3186, 0.3316

### Deuteranopia

46.4150, 0.3138, 0.3065



## Tritanopia

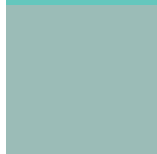
47.3088, 0.2445, 0.3079

# Trichromacy



## Original Color

47.2303, 0.2535, 0.3434



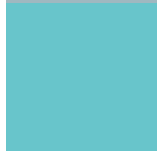
## Protanomaly

46.3539, 0.2901, 0.3358



## Deuteranomaly

45.5603, 0.2874, 0.3181



## Tritanomaly

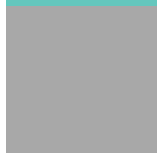
47.1874, 0.2474, 0.3203

# Monochromacy



## Original Color

47.2303, 0.2535, 0.3434



## Achromatopsia

39.1572, 0.3127, 0.3290



## Achromatomaly

41.2144, 0.2853, 0.3333

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.2303, 0.2535, 0.3434 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(100, 199, 189)` looks like.

```
.text, #text, p{  
    color:rgb(100, 199, 189)  
}
```

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(100, 199, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 199, 189) }
```

## Border

The CSS property to change the border of an element to Yxy 47.2303, 0.2535, 0.3434 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(100, 199, 189) }
```

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

```
.border{ border-color:rgb(100, 199, 189) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 199, 189)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 199, 189); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 199, 189);  
box-shadow:4px 4px 4px 4px rgb(100, 199,  
189) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.2303, 0.2535, 0.3434 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 199, 189) }
```

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

```
.background{ background-color: rgb(100,  
199, 189) }
```

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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