

# Converting Colors

$Y_{xy}(45.1485, 0.2369, 0.3155)$

Have a look what the booklet for  
Yxy(45.1485, 0.2369, 0.3155)  
contains.

<b>Yxy(45.1837, 0.2368, 0.3157)</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(45.1837, 0.2368, 0.3157)**

# Conversions

## Conversions Part 1

Format	Color
Hex	52C3CC
RGB	82, 195, 204
RGB Percent	32%, 76%, 80%
CMY	0.6784, 0.2353, 0.2001
CMYK	0.60, 0.04, 0.00, 0.20
HSL	184°, 54%, 56%
HSV	184°, 60%, 80%
XYZ	33.8914, 45.1837, 64.0472
YIQ	162.2390, -70.2370, -21.1570

# Conversions

## Conversions Part 2

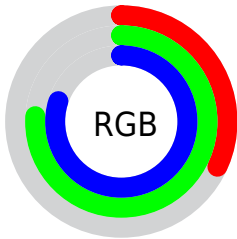
Format	Color
R <sub>Y</sub> B	82, 141, 204
Decimal	5424076
CIE Lab	73.01, -29.12, -14.11
CIE LCh	73, 32.354, 205.846
Yxy	45.1837, 0.2368, 0.3157
Android (android.graphics.Color)	4283614156 (0xFF52C3CC)
YUV	162.2390, 20.5882, -70.3696
Hunter-Lab	67.2188, -27.6342, -9.4393

# Details

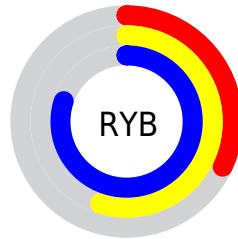
The Yxy color **45.1837, 0.2368, 0.3157** is a light color, and the websafe version is hex **66CCCC**. The color can be described as light muted cyan. A complement of this color would be **20.9212, 0.4903, 0.3401**, and the grayscale version is **36.1759, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.6804, 0.2527, 0.3254**, and **21.2518, 0.2196, 0.3105** is the 20% darker color. If you saturate the color by 10%, you get **43.7338, 0.2294, 0.3132**, and if you desaturate by 10%, it is **46.9155, 0.2460, 0.3182**.

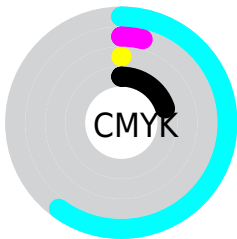
# Distribution



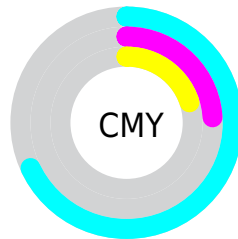
- Red (32%)
- Green (76%)
- Blue (80%)



- Red (32%)
- Yellow (55%)
- Blue (80%)



- Cyan (60%)
- Magenta (4%)
- Yellow (0%)
- Black (20%)




- Cyan (68%)
- Magenta (24%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.1837, 0.2368, 0.3157 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 45.1837, 0.2368, 0.3157 by changing the saturation by 10% instead.





 45.1837, 0.2368,  
0.3157


 45.1837, 0.2368,  
0.3157


367.5170, 0.2739,  
0.3234

 31.6021, 0.2279,  
0.3135


 82.9960, 0.2501,  
0.3187


 21.0578, 0.2166,  
0.3104


 107.9955, 0.2551,  
0.3198

 13.1663, 0.2020,  
0.3061


 137.5699, 0.2594,  
0.3207

 7.5431, 0.1824,  
0.2995

 172.1034, 0.2631,  
0.3214

 3.8040, 0.1551,  
0.2886

211.9804, 0.2663,  
0.3220

 1.5646, 0.1133,  
0.2692

257.5855, 0.2692,

 0.3335, 0.0000,

0.3226

0.1921

309.3029, 0.2717,  
0.3230

0.0000, 0.0000,  
0.0000

45.1837, 0.2368,  
0.3157

45.1837, 0.2368,  
0.3157

43.7338, 0.2294,  
0.3132

46.9155, 0.2460,  
0.3182

42.5358, 0.2240,  
0.3107

48.9459, 0.2570,  
0.3206

41.5619, 0.2204,  
0.3082

51.2963, 0.2694,  
0.3229

40.7584, 0.2183,  
0.3058

53.9847, 0.2831,  
0.3251

40.7427, 0.2183,  
0.3057

57.0276, 0.2977,  
0.3272

60.4406, 0.3130,  
0.3290

64.2382, 0.3287,  
0.3307

68.4343, 0.3444,  
0.3323

70.9792, 0.3518,  
0.3338

# Harmonies

## Analogous

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



45.1837, 0.2636, 0.3610



45.1837, 0.2368, 0.3157



45.1837, 0.2292, 0.2789

# Triad

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



45.1837, 0.2368, 0.3157



45.1837, 0.3156, 0.2712



45.1837, 0.3865, 0.3993

# Complementary

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



45.1837, 0.2368, 0.3157



20.9212, 0.4903, 0.3401

# 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.



45.1837, 0.4037, 0.3697



45.1837, 0.2368, 0.3157



45.1837, 0.3614, 0.2985

# Square

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



45.1837, 0.2368, 0.3157



45.1837, 0.2721, 0.2569



45.1837, 0.3947, 0.3334



45.1837, 0.3498, 0.4117



# Rectangle

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



45.1837, 0.2368, 0.3157



45.1837, 0.2353, 0.2635



45.1837, 0.3947, 0.3334



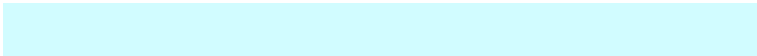
45.1837, 0.3949, 0.3908

# Sweetspot

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



45.1854, 0.2368, 0.3157



90.1746, 0.2853, 0.3254



45.7097, 0.3000, 0.5094



19.0015, 0.2812, 0.3248



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.



45.1854, 0.2368, 0.3157



71.7789, 0.2275, 0.3124



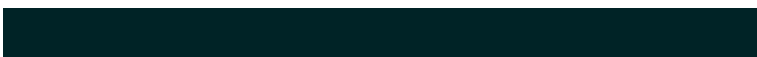
23.4409, 0.2154, 0.2193



12.5803, 0.2984, 0.3272



25.7096, 0.2184, 0.3061



1.3695, 0.2197, 0.3108



# Inverse Universe

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



22.8095, 0.3295, 0.1990



32.1980, 0.3334, 0.1805



35.6159, 0.4361, 0.4141



11.3890, 0.3149, 0.3078



10.3984, 0.3401, 0.1647

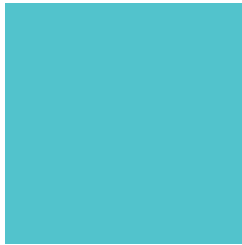


0.5408, 0.3360, 0.1624



# Previews

## White Background



This preview shows how the Yxy color 45.1837, 0.2368, 0.3157 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

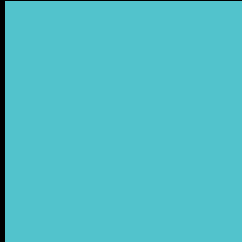
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.1837, 0.2368, 0.3157 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

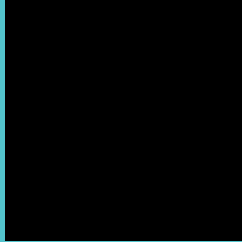
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

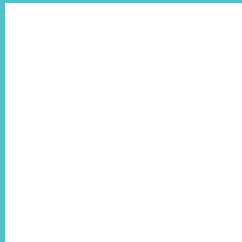
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.1837, 0.2368, 0.3157**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.1837, 0.2368, 0.3157.

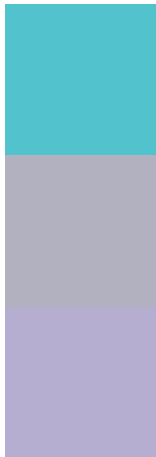


This preview shows how white text looks on a background with the Yxy color 45.1837, 0.2368, 0.3157.

# 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

45.1837, 0.2368, 0.3157

### Protanopia

44.5972, 0.3008, 0.3094

### Deuteranopia

44.6993, 0.2912, 0.2848



## Tritanopia

45.1680, 0.2347, 0.3058

# Trichromacy



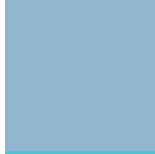
## Original Color

45.1837, 0.2368, 0.3157



## Protanomaly

44.0173, 0.2714, 0.3122



## Deuteranomaly

43.9806, 0.2661, 0.2950



## Tritanomaly

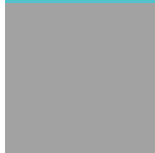
45.0225, 0.2353, 0.3086

# Monochromacy



## Original Color

45.1837, 0.2368, 0.3157



## Achromatopsia

36.1307, 0.3127, 0.3290



## Achromatomaly

38.4330, 0.2764, 0.3244

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.1837, 0.2368, 0.3157 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(82, 195, 204)` looks like.

```
.text, #text, p{  
    color:rgb(82, 195, 204)  
}
```

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(82, 195, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(82, 195, 204) }
```

## Border

The CSS property to change the border of an element to Yxy 45.1837, 0.2368, 0.3157 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(82, 195, 204) }
```

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

```
.border{ border-color:rgb(82, 195, 204) }
```

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

Here you see how a box with a 4 pixel rgb(82, 195, 204) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(82, 195, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(82, 195, 204);  
box-shadow:4px 4px 4px 4px rgb(82, 195,  
204) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.1837, 0.2368, 0.3157 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(82, 195, 204) }
```

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

```
.background{ background-color: rgb(82, 195,  
204) }
```

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