

# Converting Colors

$Yxy(47.7943, 0.2470, 0.3218)$

Have a look what the booklet for  
Yxy(47.7943, 0.2470, 0.3218)  
contains.

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# Color

**Yxy(47.5835, 0.2472, 0.3217)**

# Conversions

## Conversions Part 1

Format	Color
Hex	67C6CB
RGB	103, 198, 203
RGB Percent	40%, 78%, 80%
CMY	0.5963, 0.2235, 0.2039
CMYK	0.49, 0.02, 0.00, 0.20
HSL	183°, 49%, 60%
HSV	183°, 49%, 80%
XYZ	36.5640, 47.5835, 63.7651
YIQ	170.1650, -58.2250, -18.5850

# Conversions

## Conversions Part 2

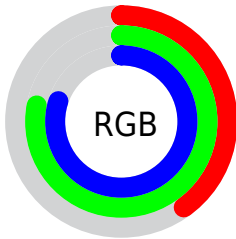
Format	Color
<a href="#">RYB</a>	<a href="#">103, 152, 203</a>
Decimal	<a href="#">6801099</a>
<a href="#">CIELab</a>	<a href="#">74.56, -26.71, -11.19</a>
<a href="#">CIElCh</a>	<a href="#">75, 28.957, 202.730</a>
<a href="#">Yxy</a>	<a href="#">47.5835, 0.2472, 0.3217</a>
Android (android.graphics.Color)	<a href="#">4284991179</a> ( <a href="#">0xFF67C6CB</a> )
<a href="#">YUV</a>	<a href="#">170.1650, 16.1877, -58.9037</a>
<a href="#">Hunter-Lab</a>	<a href="#">68.9808, -26.1006, -6.5205</a>

# Details

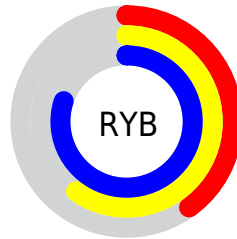
The Yxy color **47.5835, 0.2472, 0.3217** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **24.3935, 0.4465, 0.3358**, and the grayscale version is **40.2202, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.3171, 0.2610, 0.3288**, and **22.5676, 0.2299, 0.3189** is the 20% darker color. If you saturate the color by 10%, you get **46.0650, 0.2382, 0.3200**, and if you desaturate by 10%, it is **49.4002, 0.2580, 0.3233**.

# Distribution



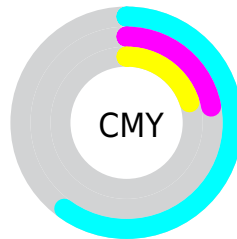
- Red (40%)
- Green (78%)
- Blue (80%)



- Red (40%)
- Yellow (60%)
- Blue (80%)



- Cyan (49%)
- Magenta (2%)
- Yellow (0%)
- Black (20%)




- Cyan (60%)
- Magenta (22%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.5835, 0.2472, 0.3217 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 47.5835, 0.2472, 0.3217 by changing the saturation by 10% instead.





 47.5835, 0.2472,  
0.3217


 47.5835, 0.2472,  
0.3217


377.1388, 0.2791,  
0.3261

 33.4972, 0.2395,  
0.3204


 86.5840, 0.2586,  
0.3235


 22.5076, 0.2298,  
0.3186


 112.2669, 0.2629,  
0.3241

 14.2303, 0.2172,  
0.3159


 142.5841, 0.2666,  
0.3246

 8.2810, 0.2003,  
0.3119

 177.9200, 0.2698,  
0.3250

 4.2753, 0.1764,  
0.3051

218.6591, 0.2726,  
0.3253

 1.8287, 0.1408,  
0.2922

265.1856, 0.2750,

 0.5050, 0.0000,

0.3256

0.2678

317.8841, 0.2772,  
0.3259

0.0000, 0.0000,  
0.0000

47.5835, 0.2472,  
0.3217

47.5835, 0.2472,  
0.3217

46.0650, 0.2382,  
0.3200

49.4002, 0.2580,  
0.3233

44.8176, 0.2310,  
0.3183

51.5288, 0.2703,  
0.3249

43.8188, 0.2258,  
0.3166

53.9889, 0.2839,  
0.3264


43.0398, 0.2224,  
0.3150

56.7968, 0.2985,  
0.3278


42.4310, 0.2205,  
0.3134


59.9678, 0.3138,  
0.3291

 42.3897, 0.2204,  
0.3132

 63.5161, 0.3295,  
0.3303

 67.4553, 0.3454,  
0.3313

 69.7791, 0.3530,  
0.3323

 70.2701, 0.3528,  
0.3334

# Harmonies

## Analogous

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



47.5835, 0.2729, 0.3611



47.5835, 0.2472, 0.3217



47.5835, 0.2384, 0.2879

# Triad

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



47.5835, 0.2472, 0.3217



47.5835, 0.3112, 0.2757



47.5835, 0.3805, 0.3892

# Complementary

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



47.5835, 0.2472, 0.3217



24.3935, 0.4465, 0.3358

# 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.



47.5835, 0.3931, 0.3625



47.5835, 0.2472, 0.3217



47.5835, 0.3518, 0.2991

# Square

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



47.5835, 0.2472, 0.3217



47.5835, 0.2735, 0.2643



47.5835, 0.3825, 0.3300



47.5835, 0.3496, 0.4014



# Rectangle

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



47.5835, 0.2472, 0.3217



47.5835, 0.2426, 0.2729



47.5835, 0.3825, 0.3300



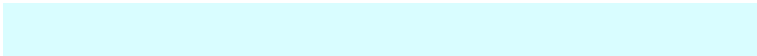
47.5835, 0.3871, 0.3815

# Sweetspot

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



47.5853, 0.2472, 0.3217



92.2386, 0.2898, 0.3270



46.6811, 0.3027, 0.4766



19.5333, 0.2867, 0.3267



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.



47.5853, 0.2472, 0.3217



77.0077, 0.2378, 0.3199



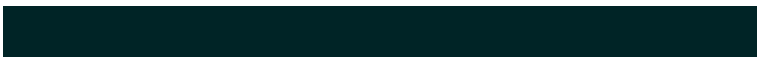
28.3672, 0.2326, 0.2448



12.6271, 0.2984, 0.3278



27.0133, 0.2204, 0.3135



1.4238, 0.2213, 0.3167



# Inverse Universe

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



26.4675, 0.3236, 0.2159



38.0164, 0.3261, 0.1965



38.1261, 0.4114, 0.3991



11.3937, 0.3145, 0.3073



10.5300, 0.3337, 0.1612

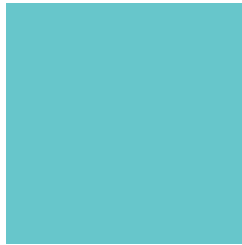


0.5463, 0.3310, 0.1597



# Previews

## White Background



This preview shows how the Yxy color 47.5835, 0.2472, 0.3217 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

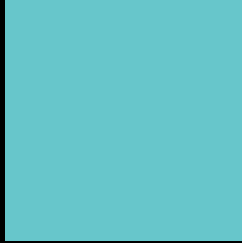
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.5835, 0.2472, 0.3217 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

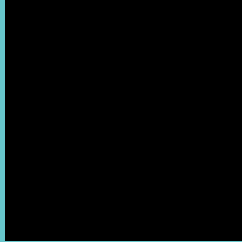
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

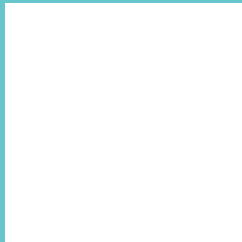
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 47.5835, 0.2472, 0.3217**

## **Background**



This preview shows how black text looks on a background with the Yxy color 47.5835, 0.2472, 0.3217.



This preview shows how white text looks on a background with the Yxy color 47.5835, 0.2472, 0.3217.

# 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

47.5835, 0.2472, 0.3217

### Protanopia

46.9653, 0.3050, 0.3136

### Deuteranopia

47.0371, 0.2985, 0.2930



## Tritanopia

47.7501, 0.2437, 0.3080

# Trichromacy



## Original Color

47.5835, 0.2472, 0.3217

## Protanomaly

46.4419, 0.2797, 0.3154

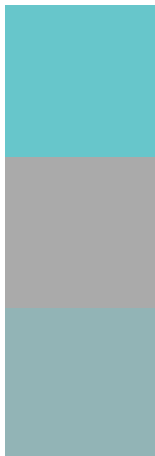
## Deuteranomaly

46.3223, 0.2756, 0.3012

## Tritanomaly

47.5392, 0.2448, 0.3120

# Monochromacy



## Original Color

47.5835, 0.2472, 0.3217

## Achromatopsia

40.1978, 0.3127, 0.3290

## Achromatomaly

42.1309, 0.2834, 0.3261

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.5835, 0.2472, 0.3217 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(103, 198, 203)` looks like.

```
.text, #text, p{  
    color:rgb(103, 198, 203)  
}
```

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(103, 198, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 198, 203) }
```

## Border

The CSS property to change the border of an element to Yxy 47.5835, 0.2472, 0.3217 is called "border". The border property can be set on classes, ids or directly on the HTML element.

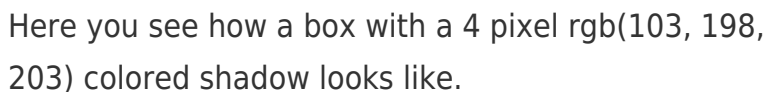
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(103, 198, 203) }
```

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

```
.border{ border-color:rgb(103, 198, 203) }
```

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



Here you see how a box with a 4 pixel `rgb(103, 198, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(103, 198, 203); -webkit-box-shadow:4px 4px 4px 4px rgb(103, 198, 203); box-shadow:4px 4px 4px 4px rgb(103, 198, 203) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.5835, 0.2472, 0.3217 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 198, 203) }
```

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

```
.background{ background-color: rgb(103,  
198, 203) }
```

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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