

# Converting Colors

$Yxy(47.9549, 0.2473, 0.3227)$

Have a look what the booklet for  
Yxy(47.9549, 0.2473, 0.3227)  
contains.

<b>Yxy(48.0422, 0.2475, 0.3231)</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(48.0422, 0.2475, 0.3231)**

# Conversions

## Conversions Part 1

Format	Color
Hex	67C7CB
RGB	103, 199, 203
RGB Percent	40%, 78%, 80%
CMY	0.5959, 0.2196, 0.2038
CMYK	0.49, 0.02, 0.00, 0.20
HSL	182°, 49%, 60%
HSV	182°, 49%, 80%
XYZ	36.8011, 48.0422, 63.8481
YIQ	170.7520, -58.5000, -19.1080

# Conversions

## Conversions Part 2

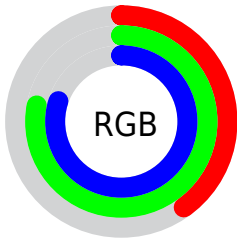
Format	Color
<a href="#">RYB</a>	<a href="#">103, 152, 203</a>
Decimal	<a href="#">6801355</a>
CIELab	<a href="#">74.85, -27.17, -10.76</a>
CIELCh	<a href="#">75, 29.227, 201.603</a>
Yxy	<a href="#">48.0422, 0.2475, 0.3231</a>
Android (android.graphics.Color)	<a href="#">4284991435</a> ( <a href="#">0xFF67C7CB</a> )
YUV	<a href="#">170.7520, 15.8983, -59.4185</a>
Hunter-Lab	<a href="#">69.3125, -26.5231, -6.0970</a>

# Details

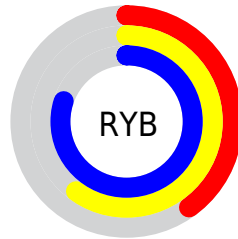
The Yxy color **48.0422, 0.2475, 0.3231** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **24.2081, 0.4470, 0.3345**, and the grayscale version is **40.5399, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.3171, 0.2610, 0.3288**, and **22.8718, 0.2304, 0.3209** is the 20% darker color. If you saturate the color by 10%, you get **46.6100, 0.2386, 0.3218**, and if you desaturate by 10%, it is **49.7716, 0.2582, 0.3244**.

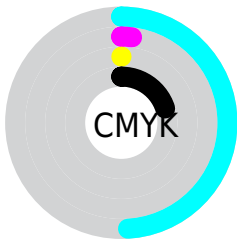
# Distribution



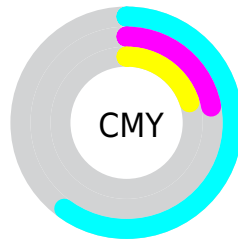
- Red (40%)
- Green (78%)
- Blue (80%)



- 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 48.0422, 0.2475, 0.3231 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 48.0422, 0.2475, 0.3231 by changing the saturation by 10% instead.





 48.0422, 0.2475,  
0.3231

 48.0422, 0.2475,  
0.3231


378.9594, 0.2792,  
0.3268


 33.8603, 0.2399,  
0.3220


 87.2672, 0.2588,  
0.3246


 22.7863, 0.2302,  
0.3204

 113.0792, 0.2631,  
0.3251

 14.4358, 0.2177,  
0.3181


 143.5366, 0.2668,  
0.3255

 8.4244, 0.2009,  
0.3145

 179.0238, 0.2700,  
0.3259

 4.3677, 0.1773,  
0.3084

219.9253, 0.2728,  
0.3262

 1.8813, 0.1420,  
0.2966

266.6255, 0.2752,

 0.5371, 0.0000,

0.3264

0.2791

319.5087, 0.2773,  
0.3266

0.0000, 0.0000,  
0.0000

48.0422, 0.2475,  
0.3231

48.0422, 0.2475,  
0.3231

46.6100, 0.2386,  
0.3218

49.7716, 0.2582,  
0.3244

45.4479, 0.2315,  
0.3204

51.8120, 0.2704,  
0.3257

44.5335, 0.2264,  
0.3190

54.1829, 0.2840,  
0.3269

43.8379, 0.2231,  
0.3177

56.9005, 0.2986,  
0.3280

43.3118, 0.2213,  
0.3164


59.9802, 0.3139,  
0.3291

 43.2746, 0.2212,  
0.3163

 63.4363, 0.3296,  
0.3300

 67.2823, 0.3455,  
0.3309

 69.4943, 0.3531,  
0.3317

 69.8879, 0.3530,  
0.3325

# Harmonies

## Analogous

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



48.0422, 0.2739, 0.3627



48.0422, 0.2475, 0.3231



48.0422, 0.2380, 0.2887

# Triad

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



48.0422, 0.2475, 0.3231



48.0422, 0.3097, 0.2747



48.0422, 0.3817, 0.3888

# Complementary

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



48.0422, 0.2475, 0.3231



24.2081, 0.4470, 0.3345

# 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.



48.0422, 0.3936, 0.3615



48.0422, 0.2475, 0.3231



48.0422, 0.3506, 0.2979

# Square

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



48.0422, 0.2475, 0.3231



48.0422, 0.2720, 0.2638



48.0422, 0.3821, 0.3287



48.0422, 0.3512, 0.4018



# Rectangle

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



48.0422, 0.2475, 0.3231



48.0422, 0.2417, 0.2732



48.0422, 0.3821, 0.3287



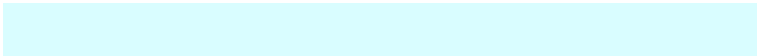
48.0422, 0.3881, 0.3808

# Sweetspot

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



48.0441, 0.2475, 0.3231



92.4743, 0.2898, 0.3274



46.6574, 0.3036, 0.4789



19.5908, 0.2867, 0.3271



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.



48.0441, 0.2475, 0.3231



77.9101, 0.2382, 0.3217



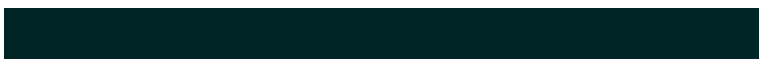
28.9143, 0.2332, 0.2475



12.6465, 0.2984, 0.3280



27.5655, 0.2213, 0.3165



1.4467, 0.2220, 0.3191



# Inverse Universe

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



26.5305, 0.3226, 0.2150



38.1075, 0.3247, 0.1954



37.5786, 0.4124, 0.3970



11.3956, 0.3144, 0.3071



10.5857, 0.3312, 0.1598

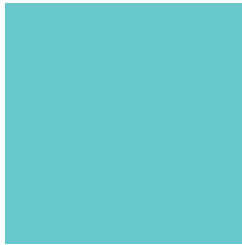


0.5486, 0.3290, 0.1586



# Previews

## White Background



This preview shows how the Yxy color 48.0422, 0.2475, 0.3231 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

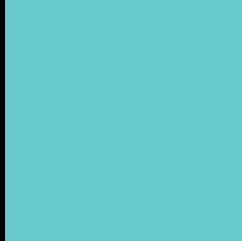
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.0422, 0.2475, 0.3231 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

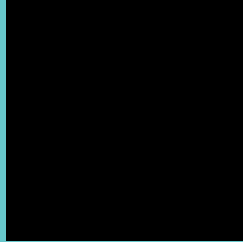
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.0422, 0.2475, 0.3231**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.0422, 0.2475, 0.3231.



This preview shows how white text looks on a background with the Yxy color 48.0422, 0.2475, 0.3231.

# 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

48.0422, 0.2475, 0.3231

### Protanopia

47.4965, 0.3058, 0.3150

### Deuteranopia

47.2929, 0.3001, 0.2932



## Tritanopia

47.8008, 0.2432, 0.3066

# Trichromacy



**Original Color**

48.0422, 0.2475, 0.3231

**Protanomaly**

46.9662, 0.2805, 0.3168

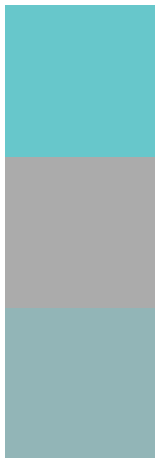
**Deuteranomaly**

46.8431, 0.2764, 0.3026

**Tritanomaly**

47.9949, 0.2451, 0.3134

# Monochromacy



**Original Color**

48.0422, 0.2475, 0.3231

**Achromatopsia**

40.7240, 0.3127, 0.3290

**Achromatomaly**

42.5776, 0.2828, 0.3261

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.0422, 0.2475, 0.3231 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, 199, 203)` looks like.

```
.text, #text, p{  
    color:rgb(103, 199, 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, 199, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 199, 203) }
```

## Border

The CSS property to change the border of an element to Yxy 48.0422, 0.2475, 0.3231 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, 199, 203) }
```

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

```
.border{ border-color:rgb(103, 199, 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, 199, 203) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 199, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 199, 203);  
box-shadow:4px 4px 4px 4px rgb(103, 199,  
203) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.0422, 0.2475, 0.3231 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 199, 203) }
```

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

```
.background{ background-color: rgb(103,  
199, 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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