

# Converting Colors

$Y_{xy}(48.2070, 0.2509, 0.2876)$

Have a look what the booklet for  
Yxy(48.2070, 0.2509, 0.2876)  
contains.

<b>Yxy(48.0676, 0.2504, 0.2867)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(48.0676, 0.2504, 0.2867)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	85C0E0
RGB	133, 192, 224
RGB Percent	52%, 75%, 88%
CMY	0.4784, 0.2471, 0.1214
CMYK	0.41, 0.14, 0.00, 0.12
HSL	201°, 60%, 70%
HSV	201°, 41%, 88%
XYZ	41.9816, 48.0676, 77.6090
YIQ	178.0070, -45.4360, -2.5560

# Conversions

## Conversions Part 2

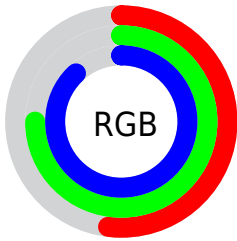
<b>Format</b>	<b>Color</b>
<b>RYB</b>	133, 169, 224
Decimal	8765664
CIELab	74.87, -10.89, -21.99
CIELCh	75, 24.535, 243.655
Yxy	48.0676, 0.2504, 0.2867
Android (android.graphics.Color)	4286955744 (0xFF85C0E0)
YUV	178.0070, 22.6745, -39.4711
Hunter-Lab	69.3308, -13.2425, -17.8377

# Details

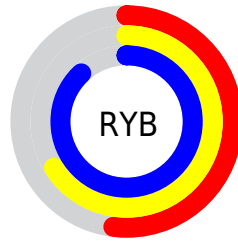
The Yxy color **48.0676, 0.2504, 0.2867** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **44.4744, 0.3999, 0.3671**, and the grayscale version is **44.4235, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.1736, 0.2740, 0.3214**, and **22.9495, 0.2342, 0.2751** is the 20% darker color. If you saturate the color by 10%, you get **43.0656, 0.2364, 0.2741**, and if you desaturate by 10%, it is **53.6477, 0.2653, 0.2985**.

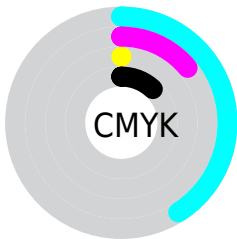
# Distribution



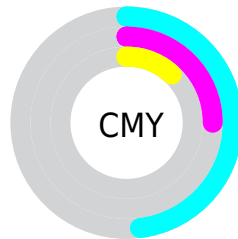
- Red (52%)
- Green (75%)
- Blue (88%)



- Red (52%)
- Yellow (66%)
- Blue (88%)



- Cyan (41%)
- Magenta (14%)
- Yellow (0%)
- Black (12%)



- Cyan (48%)
- Magenta (25%)
- Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.0676, 0.2504, 0.2867 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 48.0676, 0.2504, 0.2867 by changing the saturation by 10% instead.



■ 48.0676, 0.2504,  
0.2867

■ 48.0676, 0.2504,  
0.2867

379.0600, 0.2806,  
0.3080

■ 33.8804, 0.2432,  
0.2814

■ 87.3050, 0.2612,  
0.2944

■ 22.8018, 0.2341,  
0.2746

■ 113.1241, 0.2653,  
0.2973

■ 14.4472, 0.2224,  
0.2657

■ 143.5892, 0.2688,  
0.2998

■ 8.4323, 0.2067,  
0.2534

179.0849, 0.2718,  
0.3019

■ 4.3728, 0.1849,  
0.2356

219.9954, 0.2744,  
0.3037

■ 1.8842, 0.1530,  
0.2080

266.7051, 0.2767,

■ 0.5389, 0.0717,

0.3053

0.1568

319.5985, 0.2788,  
0.3067

0.0000, 0.0000,  
0.0000

48.0676, 0.2504,  
0.2867

48.0676, 0.2504,  
0.2867

43.0656, 0.2364,  
0.2741

53.6477, 0.2653,  
0.2985

38.6083, 0.2236,  
0.2610

59.8259, 0.2807,  
0.3094

34.6668, 0.2124,  
0.2475

66.6279, 0.2963,  
0.3194

31.2062, 0.2032,  
0.2338

74.0757, 0.3118,  
0.3285

28.1856, 0.1961,  
0.2203

82.1905, 0.3268,  
0.3366

■ 25.6900, 0.1911,  
0.2079

■ 88.5573, 0.3329,  
0.3441

■ 93.2836, 0.3319,  
0.3517

■ 98.1636, 0.3309,  
0.3591

# Harmonies

## Analogous

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



48.0676, 0.2524, 0.3118



48.0676, 0.2504, 0.2867



48.0676, 0.2639, 0.2743

# Triad

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



48.0676, 0.2504, 0.2867



48.0676, 0.3567, 0.3128



48.0676, 0.3325, 0.3890

# Complementary

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



48.0676, 0.2504, 0.2867



44.4744, 0.3999, 0.3671

# 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.



48.0676, 0.3622, 0.3856



48.0676, 0.2504, 0.2867



48.0676, 0.3770, 0.3406

# Square

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



48.0676, 0.2504, 0.2867



48.0676, 0.3244, 0.2897



48.0676, 0.3789, 0.3671



48.0676, 0.2986, 0.3736



# Rectangle

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



48.0676, 0.2504, 0.2867



48.0676, 0.2804, 0.2738



48.0676, 0.3789, 0.3671



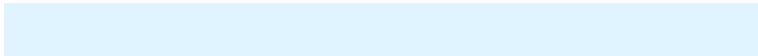
48.0676, 0.3433, 0.3899

# Sweetspot

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



48.0695, 0.2504, 0.2867



87.9711, 0.2940, 0.3180



61.0286, 0.2890, 0.4091



18.5656, 0.2920, 0.3168



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

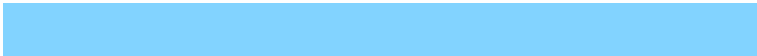


# Same Dimension

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



48.0695, 0.2504, 0.2867



58.5693, 0.2381, 0.2758



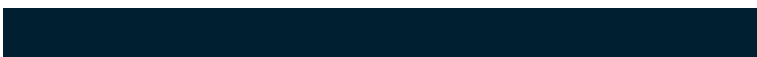
31.1351, 0.2404, 0.2233



14.7180, 0.2982, 0.3206



15.1722, 0.1917, 0.2099



1.2180, 0.1973, 0.2304



# Inverse Universe

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



36.4370, 0.3490, 0.2613



41.9428, 0.3599, 0.2475



63.8275, 0.3789, 0.4161



13.8494, 0.3191, 0.3139



10.4397, 0.4342, 0.2165

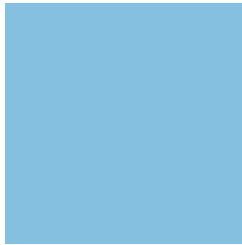


0.7404, 0.4122, 0.2045



# Previews

## White Background



This preview shows how the Yxy color 48.0676, 0.2504, 0.2867 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

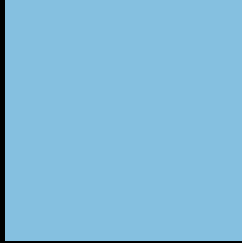
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.0676, 0.2504, 0.2867 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 48.0676, 0.2504, 0.2867**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.0676, 0.2504, 0.2867.

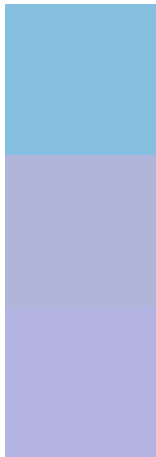


This preview shows how white text looks on a background with the Yxy color 48.0676, 0.2504, 0.2867.

# 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

48.0676, 0.2504, 0.2867

### Protanopia

47.6958, 0.2820, 0.2852

### Deuteranopia

47.8919, 0.2781, 0.2718



## Tritanopia

47.9038, 0.2563, 0.3071

# Trichromacy



## Original Color

48.0676, 0.2504, 0.2867

## Protanomaly

47.7587, 0.2688, 0.2855

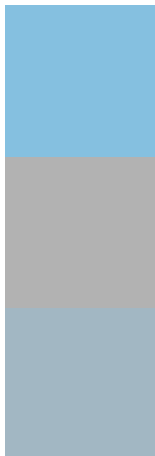
## Deuteranomaly

47.5585, 0.2669, 0.2761

## Tritanomaly

47.7921, 0.2538, 0.2992

# Monochromacy



## Original Color

48.0676, 0.2504, 0.2867

## Achromatopsia

44.5201, 0.3127, 0.3290

## Achromatomaly

45.4885, 0.2867, 0.3129

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.0676, 0.2504, 0.2867 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(133, 192, 224)` looks like.

```
.text, #text, p{  
    color:rgb(133, 192, 224)  
}
```

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(133, 192, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 192, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 48.0676, 0.2504, 0.2867 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(133, 192, 224) }
```

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

```
.border{ border-color:rgb(133, 192, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 192, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 192, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 192, 224);  
box-shadow:4px 4px 4px 4px rgb(133, 192,  
224) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.0676, 0.2504, 0.2867 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 192, 224) }
```

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

```
.background{ background-color: rgb(133,  
192, 224) }
```

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