

# Converting Colors

$Yxy(48.1585, 0.2494, 0.2846)$

Have a look what the booklet for  
Yxy(48.1585, 0.2494, 0.2846)  
contains.

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# Color

**Yxy(48.1768, 0.2493, 0.2843)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85C0E2
RGB	133, 192, 226
RGB Percent	52%, 75%, 89%
CMY	0.4786, 0.2470, 0.1137
CMYK	0.41, 0.15, 0.00, 0.11
HSL	202°, 62%, 70%
HSV	202°, 41%, 89%
XYZ	42.2458, 48.1768, 79.0350
YIQ	178.2350, -46.0780, -1.9340

# Conversions

## Conversions Part 2

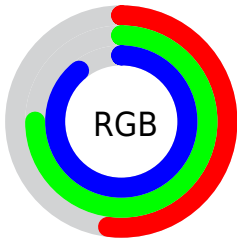
Format	Color
R <sub>Y</sub> B	133, 169, 226
Decimal	8765666
CIE Lab	74.94, -10.39, -22.96
CIE LCh	75, 25.196, 245.653
Yxy	48.1768, 0.2493, 0.2843
Android (android.graphics.Color)	4286955746 (0xFF85C0E2)
YUV	178.2350, 23.5481, -39.6711
Hunter-Lab	69.4095, -12.8234, -18.9255

# Details

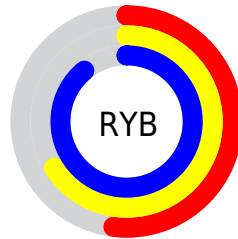
The Yxy color **48.1768, 0.2493, 0.2843** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **45.4864, 0.4009, 0.3691**, and the grayscale version is **44.5392, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.1736, 0.2740, 0.3214**, and **23.0252, 0.2329, 0.2719** is the 20% darker color. If you saturate the color by 10%, you get **43.0075, 0.2351, 0.2712**, and if you desaturate by 10%, it is **53.9491, 0.2643, 0.2966**.

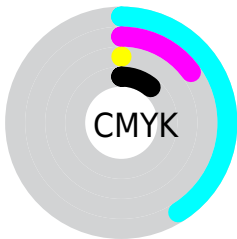
# Distribution



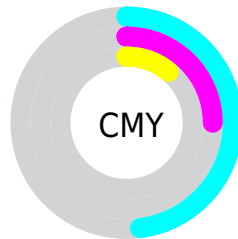
- Red (52%)
- Green (75%)
- Blue (89%)



- Red (52%)
- Yellow (66%)
- Blue (89%)



- Cyan (41%)
- Magenta (15%)
- Yellow (0%)
- Black (11%)




- Cyan (48%)
- Magenta (25%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.1768, 0.2493, 0.2843 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 48.1768, 0.2493, 0.2843 by changing the saturation by 10% instead.





 48.1768, 0.2493,  
0.2843


 48.1768, 0.2493,  
0.2843

379.4925, 0.2800,  
0.3067


 33.9669, 0.2420,  
0.2787

 87.4676, 0.2602,  
0.2924

 22.8682, 0.2328,  
0.2717


 113.3173, 0.2644,  
0.2955

 14.4962, 0.2209,  
0.2623


 143.8157, 0.2680,  
0.2981

 8.4666, 0.2051,  
0.2496

179.3472, 0.2710,  
0.3003

 4.3949, 0.1831,  
0.2311

220.2963, 0.2737,  
0.3022

 1.8968, 0.1511,  
0.2028

267.0473, 0.2761,

 0.5465, 0.0735,

0.3039

0.1512

319.9845, 0.2782,  
0.3054

0.0000, 0.0000,  
0.0000

48.1768, 0.2493,  
0.2843

48.1768, 0.2493,  
0.2843

43.0075, 0.2351,  
0.2712

53.9491, 0.2643,  
0.2966

38.4066, 0.2222,  
0.2574

60.3453, 0.2798,  
0.3081

34.3441, 0.2110,  
0.2433

67.3921, 0.2954,  
0.3185

30.7835, 0.2017,  
0.2291

75.1125, 0.3109,  
0.3280

27.6821, 0.1945,  
0.2151

83.5285, 0.3260,  
0.3364

■ 25.2656, 0.1897,  
0.2030

■ 89.9968, 0.3313,  
0.3443

■ 95.0129, 0.3303,  
0.3523

■ 98.2719, 0.3297,  
0.3572

# Harmonies

## Analogous

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



48.1768, 0.2502, 0.3093



48.1768, 0.2493, 0.2843



48.1768, 0.2641, 0.2726

# Triad

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



48.1768, 0.2493, 0.2843



48.1768, 0.3597, 0.3142



48.1768, 0.3307, 0.3901

# Complementary

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



48.1768, 0.2493, 0.2843



45.4864, 0.4009, 0.3691

# 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.



48.1768, 0.3617, 0.3879



48.1768, 0.2493, 0.2843



48.1768, 0.3795, 0.3427

# Square

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



48.1768, 0.2493, 0.2843



48.1768, 0.3270, 0.2901



48.1768, 0.3800, 0.3697



48.1768, 0.2960, 0.3732



# Rectangle

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



48.1768, 0.2493, 0.2843



48.1768, 0.2815, 0.2728



48.1768, 0.3800, 0.3697



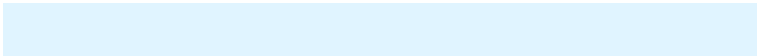
48.1768, 0.3419, 0.3915

# Sweetspot

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



48.1787, 0.2493, 0.2843



87.7235, 0.2940, 0.3176



62.1203, 0.2888, 0.4104



18.5072, 0.2920, 0.3163



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

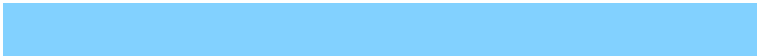


# Same Dimension

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



48.1787, 0.2493, 0.2843



57.7388, 0.2377, 0.2736



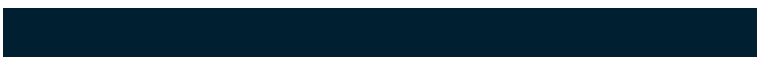
31.3152, 0.2392, 0.2215



14.6861, 0.2981, 0.3202



14.6452, 0.1903, 0.2051



1.1839, 0.1962, 0.2264



# Inverse Universe

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



36.7401, 0.3510, 0.2617



41.8590, 0.3617, 0.2491



64.9792, 0.3799, 0.4172



13.8462, 0.3193, 0.3142



10.3865, 0.4395, 0.2195

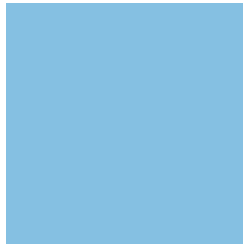


0.7370, 0.4164, 0.2068



# Previews

## White Background



This preview shows how the Yxy color 48.1768, 0.2493, 0.2843 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

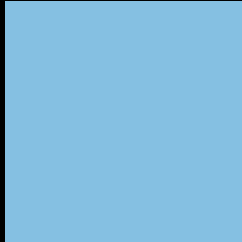
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.1768, 0.2493, 0.2843 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

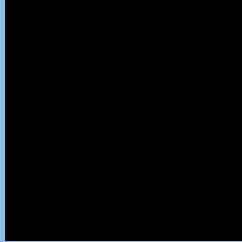
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 48.1768, 0.2493, 0.2843**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.1768, 0.2493, 0.2843.



This preview shows how white text looks on a background with the Yxy color 48.1768, 0.2493, 0.2843.

# 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

48.1768, 0.2493, 0.2843

### Protanopia

47.8005, 0.2806, 0.2829

### Deuteranopia

47.8834, 0.2760, 0.2694



## Tritanopia

48.3505, 0.2565, 0.3085

# Trichromacy



**Original Color**

48.1768, 0.2493, 0.2843

**Protanomaly**

47.8653, 0.2676, 0.2831

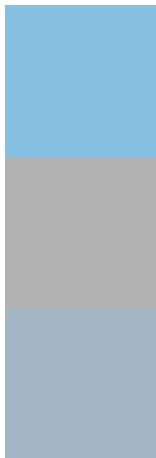
**Deuteranomaly**

47.5638, 0.2650, 0.2737

**Tritanomaly**

48.2873, 0.2535, 0.2993

# Monochromacy



**Original Color**

48.1768, 0.2493, 0.2843

**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 48.1768, 0.2493, 0.2843 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, 226)` looks like.

```
.text, #text, p{  
    color:rgb(133, 192, 226)  
}
```

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, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 192, 226) }
```

## Border

The CSS property to change the border of an element to Yxy 48.1768, 0.2493, 0.2843 is called "border". The border property can be set on classes, ids or directly on the HTML element.

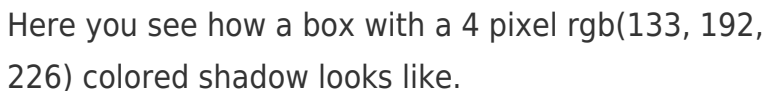
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(133, 192, 226) }
```

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

```
.border{ border-color:rgb(133, 192, 226) }
```

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, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(133, 192, 226); -webkit-box-shadow:4px 4px 4px 4px rgb(133, 192, 226); box-shadow:4px 4px 4px 4px rgb(133, 192, 226) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.1768, 0.2493, 0.2843 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, 226) }
```

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

```
.background{ background-color: rgb(133,  
192, 226) }
```

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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