

# Converting Colors

$Y_{xy}(48.8522, 0.2504, 0.2887)$

Have a look what the booklet for  
Yxy(48.8522, 0.2504, 0.2887)  
contains.

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# Color

**Yxy(48.9519, 0.2508, 0.2895)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85C2E0
RGB	133, 194, 224
RGB Percent	52%, 76%, 88%
CMY	0.4788, 0.2391, 0.1216
CMYK	0.41, 0.13, 0.00, 0.12
HSL	200°, 59%, 70%
HSV	200°, 41%, 88%
XYZ	42.4081, 48.9519, 77.7312
YIQ	179.1810, -45.9860, -3.6020

# Conversions

## Conversions Part 2

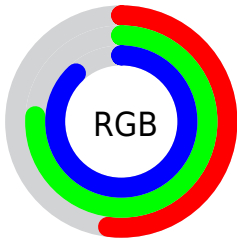
Format	Color
R <sub>Y</sub> B	133, 170, 224
Decimal	8766176
CIE Lab	75.42, -11.99, -21.13
CIE LCh	75, 24.291, 240.421
Yxy	48.9519, 0.2508, 0.2895
Android (android.graphics.Color)	4286956256 (0xFF85C2E0)
YUV	179.1810, 22.0958, -40.5007
Hunter-Lab	69.9656, -14.2462, -16.8947

# Details

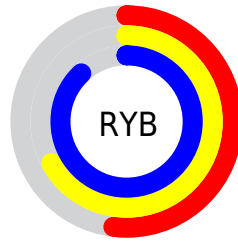
The Yxy color **48.9519, 0.2508, 0.2895** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **43.6930, 0.4010, 0.3647**, and the grayscale version is **45.0706, 0.3127, 0.3290**.

A 20% lighter version of the original color is **87.0332, 0.2743, 0.3246**, and **23.2404, 0.2346, 0.2770** is the 20% darker color. If you saturate the color by 10%, you get **44.1214, 0.2370, 0.2778**, and if you desaturate by 10%, it is **54.3377, 0.2655, 0.3005**.

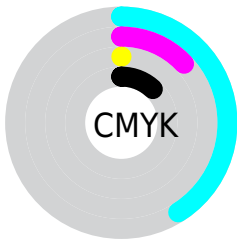
# Distribution



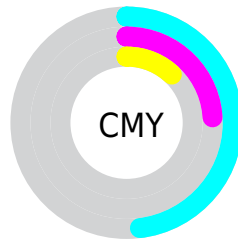
- Red (52%)
- Green (76%)
- Blue (88%)



- Red (52%)
- Yellow (67%)
- Blue (88%)



- Cyan (41%)
- Magenta (13%)
- Yellow (0%)
- Black (12%)




- Cyan (48%)
- Magenta (24%)
- Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.9519, 0.2508, 0.2895 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 48.9519, 0.2508, 0.2895 by changing the saturation by 10% instead.





 48.9519, 0.2508,  
0.2895


 48.9519, 0.2508,  
0.2895


382.5529, 0.2808,  
0.3094


 34.5813, 0.2437,  
0.2845


 88.6200, 0.2614,  
0.2967

 23.3405, 0.2347,  
0.2782


 114.6863, 0.2655,  
0.2994

 14.8452, 0.2232,  
0.2698


 145.4200, 0.2690,  
0.3017

 8.7108, 0.2078,  
0.2583

181.2055, 0.2720,  
0.3037

 4.5530, 0.1863,  
0.2415

222.4271, 0.2746,  
0.3054

 1.9875, 0.1550,  
0.2154

269.4693, 0.2769,

 0.6002, 0.0784,

0.3069

0.1695

322.7164, 0.2789,  
0.3082

0.0000, 0.0000,  
0.0000

48.9519, 0.2508,  
0.2895

48.9519, 0.2508,  
0.2895

44.1214, 0.2370,  
0.2778

54.3377, 0.2655,  
0.3005

39.8131, 0.2246,  
0.2656

60.2980, 0.2808,  
0.3107

35.9988, 0.2138,  
0.2530

66.8580, 0.2963,  
0.3200

32.6441, 0.2049,  
0.2403

74.0395, 0.3117,  
0.3285

29.7085, 0.1981,  
0.2277

81.8629, 0.3268,  
0.3360

■ 27.2830, 0.1934,  
0.2162

■ 87.9375, 0.3330,  
0.3431

■ 92.3245, 0.3321,  
0.3503

■ 96.8894, 0.3312,  
0.3573

■ 98.1616, 0.3310,  
0.3592

# Harmonies

## Analogous

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



48.9519, 0.2544, 0.3154



48.9519, 0.2508, 0.2895



48.9519, 0.2625, 0.2758

# Triad

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



48.9519, 0.2508, 0.2895



48.9519, 0.3529, 0.3103



48.9519, 0.3357, 0.3885

# Complementary

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



48.9519, 0.2508, 0.2895



43.6930, 0.4010, 0.3647

# 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.



48.9519, 0.3639, 0.3834



48.9519, 0.2508, 0.2895



48.9519, 0.3746, 0.3374

# Square

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



48.9519, 0.2508, 0.2895



48.9519, 0.3205, 0.2883



48.9519, 0.3786, 0.3640



48.9519, 0.3024, 0.3753



# Rectangle

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



48.9519, 0.2508, 0.2895



48.9519, 0.2779, 0.2743



48.9519, 0.3786, 0.3640



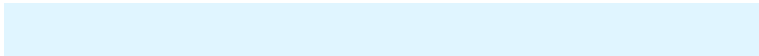
48.9519, 0.3462, 0.3887

# Sweetspot

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



48.9538, 0.2508, 0.2895



88.3933, 0.2941, 0.3188



60.8890, 0.2907, 0.4135



18.6652, 0.2920, 0.3176



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

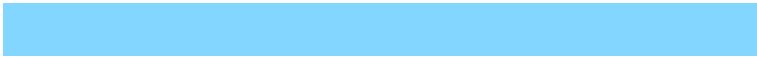


# Same Dimension

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



48.9538, 0.2508, 0.2895



60.0012, 0.2388, 0.2794



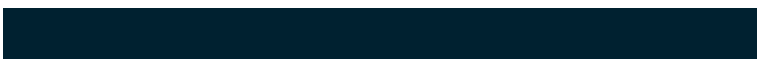
32.0502, 0.2410, 0.2274



14.7723, 0.2982, 0.3211



16.0997, 0.1939, 0.2181



1.2776, 0.1992, 0.2372



# Inverse Universe

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



36.4941, 0.3468, 0.2591



42.0874, 0.3570, 0.2449



62.3080, 0.3803, 0.4131



13.8549, 0.3188, 0.3134



10.5333, 0.4253, 0.2116

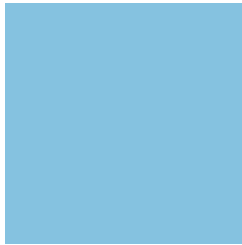


0.7464, 0.4052, 0.2006



# Previews

## White Background



This preview shows how the Yxy color 48.9519, 0.2508, 0.2895 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

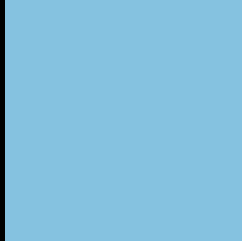
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.9519, 0.2508, 0.2895 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 48.9519, 0.2508, 0.2895**

## Background



This preview shows how black text looks on a background with the Yxy color 48.9519, 0.2508, 0.2895.



This preview shows how white text looks on a background with the Yxy color 48.9519, 0.2508, 0.2895.

# 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

48.9519, 0.2508, 0.2895

### Protanopia

48.4604, 0.2844, 0.2868

### Deuteranopia

48.5389, 0.2797, 0.2732



## Tritanopia

48.9791, 0.2561, 0.3073

# Trichromacy



**Original Color**

48.9519, 0.2508, 0.2895

**Protanomaly**

48.3893, 0.2704, 0.2870

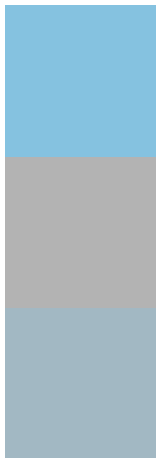
**Deuteranomaly**

48.5013, 0.2679, 0.2788

**Tritanomaly**

48.8134, 0.2543, 0.3008

# Monochromacy



**Original Color**

48.9519, 0.2508, 0.2895

**Achromatopsia**

45.0786, 0.3127, 0.3290

**Achromatomaly**

45.9025, 0.2868, 0.3142

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.9519, 0.2508, 0.2895 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, 194, 224)` looks like.

```
.text, #text, p{  
    color:rgb(133, 194, 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, 194, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 194, 224) }
```

## Border

The CSS property to change the border of an element to Yxy 48.9519, 0.2508, 0.2895 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, 194, 224) }
```

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

```
.border{ border-color:rgb(133, 194, 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, 194, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(133, 194, 224); -webkit-box-shadow:4px 4px 4px 4px rgb(133, 194, 224); box-shadow:4px 4px 4px 4px rgb(133, 194, 224) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.9519, 0.2508, 0.2895 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 194, 224) }
```

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

```
.background{ background-color: rgb(133,  
194, 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](#).

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