

# Converting Colors

$Yxy(48.2614, 0.2222, 0.2826)$

Have a look what the booklet for  
Yxy(48.2614, 0.2222, 0.2826)  
contains.

<b>Yxy(48.1465, 0.2223, 0.2825)</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(48.1465, 0.2223, 0.2825)**

# Conversions

## Conversions Part 1

Format	Color
Hex	49C7E9
RGB	73, 199, 233
RGB Percent	29%, 78%, 91%
CMY	0.7133, 0.2196, 0.0862
CMYK	0.69, 0.15, 0.00, 0.09
HSL	193°, 78%, 60%
HSV	193°, 69%, 91%
XYZ	37.8866, 48.1465, 84.3970
YIQ	165.2020, -86.0100, -16.1380

# Conversions

## Conversions Part 2

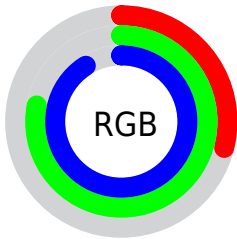
Format	Color
R <sub>Y</sub> B	73, 143, 233
Decimal	4835305
CIE Lab	74.92, -23.91, -26.96
CIE LCh	75, 36.038, 228.437
Yxy	48.1465, 0.2223, 0.2825
Android (android.graphics.Color)	4283025385 (0xFF49C7E9)
YUV	165.2020, 33.4244, -80.8612
Hunter-Lab	69.3877, -23.9650, -23.5437

# Details

The Yxy color **48.1465, 0.2223, 0.2825** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **28.3532, 0.5131, 0.3629**, and the grayscale version is **37.6122, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.2290, 0.2516, 0.3288**, and **23.4251, 0.2084, 0.2703** is the 20% darker color. If you saturate the color by 10%, you get **45.1562, 0.2148, 0.2746**, and if you desaturate by 10%, it is **51.5556, 0.2318, 0.2903**.

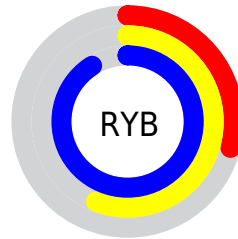
# Distribution



Red (29%)

Green (78%)

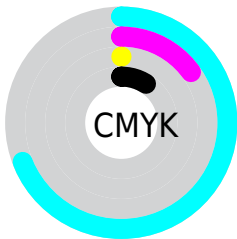
Blue (91%)



Red (29%)

Yellow (56%)

Blue (91%)

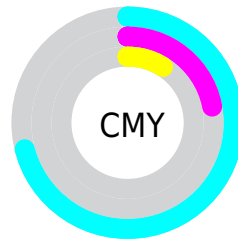


Cyan (69%)

Magenta (15%)

Yellow (0%)

Black (9%)



Cyan (71%)

Magenta (22%)

Yellow (9%)

# Brightness & Saturation Gradients


These gradients show how the Yxy color 48.1465, 0.2223, 0.2825 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 48.1465, 0.2223, 0.2825 by changing the saturation by 10% instead.





 48.1465, 0.2223,  
0.2825

 48.1465, 0.2223,  
0.2825


 379.3725, 0.2654,  
0.3066

 33.9429, 0.2123,  
0.2764


 87.4225, 0.2374,  
0.2914

 22.8498, 0.1999,  
0.2685


 113.2637, 0.2433,  
0.2946


 14.4826, 0.1842,  
0.2581


 143.7529, 0.2483,  
0.2974

 8.4571, 0.1638,  
0.2436

 179.2744, 0.2526,  
0.2998

 4.3888, 0.1368,  
0.2228

 220.2128, 0.2564,  
0.3018

 1.8933, 0.1002,  
0.1907

 266.9523, 0.2597,

 0.5444, 0.0000,

0.3036

0.1377

319.8774, 0.2627,  
0.3052

0.0000, 0.0000,  
0.0000

48.1465, 0.2223,  
0.2825

48.1465, 0.2223,  
0.2825

45.1562, 0.2148,  
0.2746

51.5556, 0.2318,  
0.2903

42.5384, 0.2092,  
0.2668

55.4129, 0.2430,  
0.2979

40.2348, 0.2055,  
0.2590

59.7509, 0.2556,  
0.3052

39.9304, 0.2050,  
0.2579

64.5972, 0.2695,  
0.3120

69.9771, 0.2842,  
0.3184

75.9140, 0.2994,  
0.3243

82.4297, 0.3148,  
0.3297

88.6758, 0.3272,  
0.3346

91.6133, 0.3267,  
0.3394

# Harmonies

## Analogous

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



48.1465, 0.2357, 0.3261



48.1465, 0.2223, 0.2825



48.1465, 0.2304, 0.2563

# Triad

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



48.1465, 0.2223, 0.2825



48.1465, 0.3540, 0.2876



48.1465, 0.3639, 0.4183

# Complementary

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



48.1465, 0.2223, 0.2825



28.3532, 0.5131, 0.3629

# 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.



48.1465, 0.3999, 0.3983



48.1465, 0.2223, 0.2825



48.1465, 0.3954, 0.3237

# Square

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



48.1465, 0.2223, 0.2825



48.1465, 0.3032, 0.2613



48.1465, 0.4123, 0.3632



48.1465, 0.3158, 0.4115



# Rectangle

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



48.1465, 0.2223, 0.2825



48.1465, 0.2472, 0.2498



48.1465, 0.4123, 0.3632



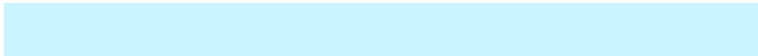
48.1465, 0.3779, 0.4141

# Sweetspot

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



48.1482, 0.2223, 0.2825



84.1644, 0.2805, 0.3169



60.7289, 0.2908, 0.5126



17.6181, 0.2764, 0.3151



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.



48.1482, 0.2223, 0.2825



54.1431, 0.2125, 0.2716



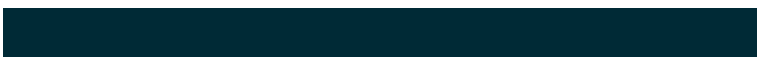
21.0009, 0.1942, 0.1678



16.5462, 0.2981, 0.3239



22.8414, 0.2053, 0.2592



1.9291, 0.2083, 0.2699



# Inverse Universe

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



26.2297, 0.3585, 0.2030



27.8847, 0.3702, 0.1915



52.5255, 0.4406, 0.4436



15.2557, 0.3170, 0.3106



11.7987, 0.3832, 0.1885

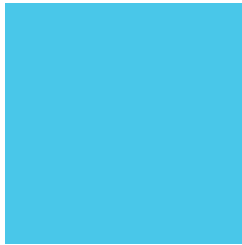


0.9402, 0.3729, 0.1828



# Previews

## White Background



This preview shows how the Yxy color 48.1465, 0.2223, 0.2825 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

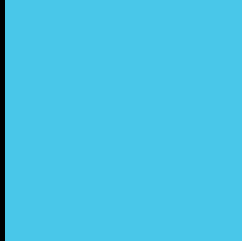
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.1465, 0.2223, 0.2825 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 48.1465, 0.2223, 0.2825**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.1465, 0.2223, 0.2825.



This preview shows how white text looks on a background with the Yxy color 48.1465, 0.2223, 0.2825.

# 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

48.1465, 0.2223, 0.2825

### Protanopia

47.3822, 0.2785, 0.2792

### Deuteranopia

47.5276, 0.2659, 0.2599



## Tritanopia

48.3930, 0.2271, 0.3062

# Trichromacy



**Original Color**

48.1465, 0.2223, 0.2825

**Protanomaly**

46.8060, 0.2520, 0.2804

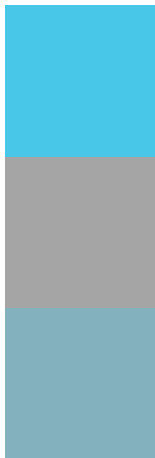
**Deuteranomaly**

46.8310, 0.2447, 0.2661

**Tritanomaly**

48.2943, 0.2254, 0.2981

# Monochromacy



**Original Color**

48.1465, 0.2223, 0.2825

**Achromatopsia**

37.6262, 0.3127, 0.3290

**Achromatomaly**

40.0675, 0.2672, 0.3101

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.1465, 0.2223, 0.2825 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(73, 199, 233)` looks like.

```
.text, #text, p{  
    color:rgb(73, 199, 233)  
}
```

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(73, 199, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 199, 233) }
```

## Border

The CSS property to change the border of an element to Yxy 48.1465, 0.2223, 0.2825 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(73, 199, 233) }
```

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

```
.border{ border-color:rgb(73, 199, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 199, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 199, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 199, 233);  
box-shadow:4px 4px 4px 4px rgb(73, 199,  
233) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.1465, 0.2223, 0.2825 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 199, 233) }
```

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

```
.background{ background-color: rgb(73, 199,  
233) }
```

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