

# Converting Colors

$Y_{xy}(51.3597, 0.2654, 0.3021)$

Have a look what the booklet for  
Yxy(51.3597, 0.2654, 0.3021)  
contains.

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# Color

**Yxy(51.4785, 0.2650, 0.3018)**

# Conversions

## Conversions Part 1

Format	Color
Hex	96C5DA
RGB	150, 197, 218
RGB Percent	59%, 77%, 85%
CMY	0.4117, 0.2275, 0.1450
CMYK	0.31, 0.10, 0.00, 0.15
HSL	199°, 48%, 72%
HSV	199°, 31%, 85%
XYZ	45.2015, 51.4785, 73.8916
YIQ	185.3410, -34.7530, -3.4330

# Conversions

## Conversions Part 2

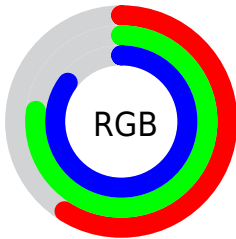
<b>Format</b>	<b>Color</b>
<b>RYB</b>	150, 178, 218
Decimal	9881050
CIELab	76.97, -10.45, -15.47
CIELCh	77, 18.663, 235.965
Yxy	51.4785, 0.2650, 0.3018
Android (android.graphics.Color)	4288071130 (0xFF96C5DA)
YUV	185.3410, 16.1009, -30.9941
Hunter-Lab	71.7485, -13.1052, -10.8370

# Details

The Yxy color **51.4785, 0.2650, 0.3018** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **46.2456, 0.3756, 0.3545**, and the grayscale version is **48.6412, 0.3127, 0.3290**.

A 20% lighter version of the original color is **91.2254, 0.2837, 0.3279**, and **24.8307, 0.2528, 0.2938** is the 20% darker color. If you saturate the color by 10%, you get **46.6094, 0.2505, 0.2915**, and if you desaturate by 10%, it is **56.8732, 0.2801, 0.3114**.

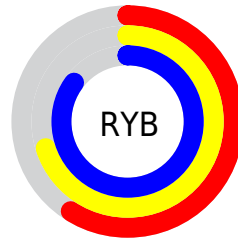
# Distribution



Red (59%)

Green (77%)

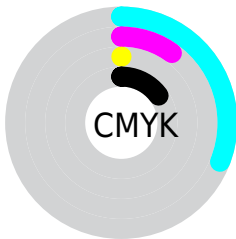
Blue (85%)



Red (59%)

Yellow (70%)

Blue (85%)

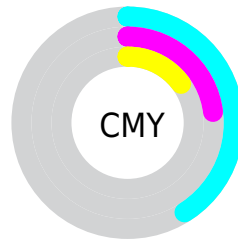


Cyan (31%)

Magenta (10%)

Yellow (0%)

Black (15%)



Cyan (41%)

Magenta (23%)


Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.4785, 0.2650, 0.3018 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 51.4785, 0.2650, 0.3018 by changing the saturation by 10% instead.





 51.4785, 0.2650,  
0.3018


 51.4785, 0.2650,  
0.3018


392.4200, 0.2881,  
0.3154

 36.5896, 0.2595,  
0.2984


 92.3617, 0.2732,  
0.3068

 24.8899, 0.2526,  
0.2941


 119.1247, 0.2763,  
0.3086

 15.9950, 0.2436,  
0.2883


150.6146, 0.2790,  
0.3102

 9.5206, 0.2315,  
0.2804


187.2157, 0.2813,  
0.3115

 5.0823, 0.2146,  
0.2687

229.3123, 0.2833,  
0.3127

 2.2956, 0.1891,  
0.2502

277.2890, 0.2851,

 0.7714, 0.1358,

0.3137

0.2190

331.5301, 0.2867,  
0.3146

0.0000, 0.0000,  
0.0000

51.4785, 0.2650,  
0.3018

51.4785, 0.2650,  
0.3018

46.6094, 0.2505,  
0.2915

56.8732, 0.2801,  
0.3114

42.2366, 0.2371,  
0.2806

62.8088, 0.2955,  
0.3202

38.3369, 0.2250,  
0.2692

69.3074, 0.3109,  
0.3281

34.8823, 0.2146,  
0.2574

76.3880, 0.3261,  
0.3353

31.8409, 0.2061,  
0.2456

83.2981, 0.3380,  
0.3417

■ 29.1749, 0.1997,  
0.2339

■ 87.1354, 0.3370,  
0.3483

■ 27.0815, 0.1955,  
0.2237

■ 91.1193, 0.3360,  
0.3548

■ 95.2516, 0.3351,  
0.3612

■ 97.8426, 0.3345,  
0.3651

# Harmonies

## Analogous

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



51.4785, 0.2697, 0.3226



51.4785, 0.2650, 0.3018



51.4785, 0.2724, 0.2894

# Triad

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



51.4785, 0.2650, 0.3018



51.4785, 0.3398, 0.3120



51.4785, 0.3340, 0.3738

# Complementary

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



51.4785, 0.2650, 0.3018



46.2456, 0.3756, 0.3545

# 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.



51.4785, 0.3540, 0.3688



51.4785, 0.2650, 0.3018



51.4785, 0.3576, 0.3327

# Square

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



51.4785, 0.2650, 0.3018



51.4785, 0.3150, 0.2958



51.4785, 0.3628, 0.3534



51.4785, 0.3089, 0.3657



# Rectangle

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



51.4785, 0.2650, 0.3018



51.4785, 0.2834, 0.2870



51.4785, 0.3628, 0.3534



51.4785, 0.3416, 0.3736

# Sweetspot

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



51.4805, 0.2650, 0.3018



91.4625, 0.2987, 0.3219



59.5528, 0.2960, 0.3921



19.2948, 0.2965, 0.3207



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

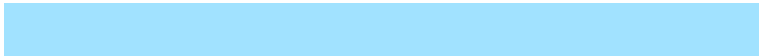


# Same Dimension

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



51.4805, 0.2650, 0.3018



69.0690, 0.2560, 0.2956



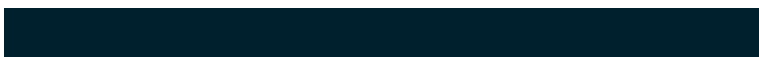
37.9607, 0.2597, 0.2564



14.1152, 0.2982, 0.3216



16.4216, 0.1960, 0.2254



1.2143, 0.2012, 0.2443



# Inverse Universe

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



40.7556, 0.3356, 0.2740



52.1100, 0.3414, 0.2631



60.4922, 0.3639, 0.3923



13.2028, 0.3185, 0.3130



10.2815, 0.4175, 0.2073

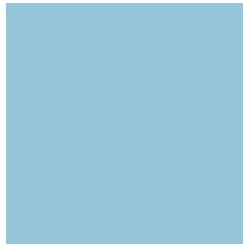


0.6813, 0.3979, 0.1966



# Previews

## White Background



This preview shows how the Yxy color 51.4785, 0.2650, 0.3018 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

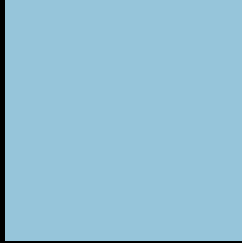
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.4785, 0.2650, 0.3018 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

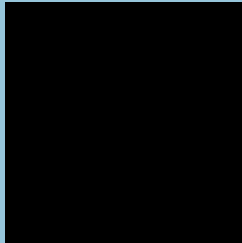
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 51.4785, 0.2650, 0.3018**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.4785, 0.2650, 0.3018.



This preview shows how white text looks on a background with the Yxy color 51.4785, 0.2650, 0.3018.

# 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

51.4785, 0.2650, 0.3018

### Protanopia

51.1590, 0.2934, 0.2995

### Deuteranopia

51.2558, 0.2924, 0.2860



## Tritanopia

51.6328, 0.2669, 0.3081

# Trichromacy



**Original Color**

51.4785, 0.2650, 0.3018

**Protanomaly**

51.0009, 0.2825, 0.3001

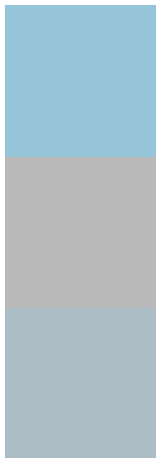
**Deuteranomaly**

50.9096, 0.2813, 0.2907

**Tritanomaly**

51.6840, 0.2663, 0.3068

# Monochromacy



**Original Color**

51.4785, 0.2650, 0.3018

**Achromatopsia**

48.5150, 0.3127, 0.3290

**Achromatomaly**

49.1971, 0.2933, 0.3186

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.4785, 0.2650, 0.3018 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(150, 197, 218)` looks like.

```
.text, #text, p{  
    color:rgb(150, 197, 218)  
}
```

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(150, 197, 218) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 197, 218) }
```

## Border

The CSS property to change the border of an element to Yxy 51.4785, 0.2650, 0.3018 is called "border". The border property can be set on classes, ids or directly on the HTML element.

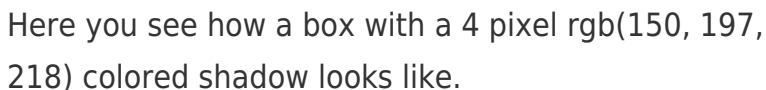
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(150, 197, 218) }
```

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

```
.border{ border-color:rgb(150, 197, 218) }
```

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



Here you see how a box with a 4 pixel rgb(150, 197, 218) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 197, 218); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 197, 218);  
box-shadow:4px 4px 4px 4px rgb(150, 197,  
218) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.4785, 0.2650, 0.3018 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 197, 218) }
```

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

```
.background{ background-color: rgb(150,  
197, 218) }
```

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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