

# Converting Colors

$Y_{xy}(42.2472, 0.2515, 0.3010)$

Have a look what the booklet for  
Yxy(42.2472, 0.2515, 0.3010)  
contains.

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# Color

**Yxy(42.4443, 0.2516, 0.3017)**

# Conversions

## Conversions Part 1

Format	Color
Hex	76B8CB
RGB	118, 184, 203
RGB Percent	46%, 72%, 80%
CMY	0.5371, 0.2784, 0.2038
CMYK	0.42, 0.09, 0.00, 0.20
HSL	193°, 45%, 63%
HSV	193°, 42%, 80%
XYZ	35.3960, 42.4443, 62.8434
YIQ	166.4320, -45.4350, -8.0830

# Conversions

## Conversions Part 2

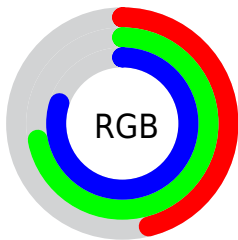
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	118, 155, 203
Decimal	7780555
CIE <sub>Lab</sub>	71.18, -16.03, -16.22
CIE <sub>LCh</sub>	71, 22.801, 225.328
Yxy	42.4443, 0.2516, 0.3017
Android (android.graphics.Color)	4285970635 (0xFF76B8CB)
YUV	166.4320, 18.0280, -42.4749
Hunter-Lab	65.1493, -17.0310, -11.5870

# Details

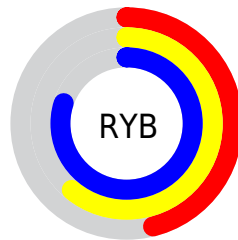
The Yxy color **42.4443, 0.2516, 0.3017** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **31.9170, 0.4089, 0.3541**, and the grayscale version is **38.2847, 0.3127, 0.3290**.

A 20% lighter version of the original color is **78.5388, 0.2651, 0.3123**, and **19.4593, 0.2347, 0.2930** is the 20% darker color. If you saturate the color by 10%, you get **39.3155, 0.2393, 0.2940**, and if you desaturate by 10%, it is **45.9430, 0.2651, 0.3090**.

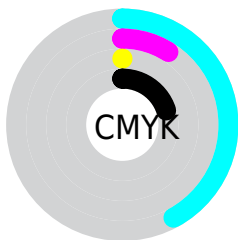
# Distribution



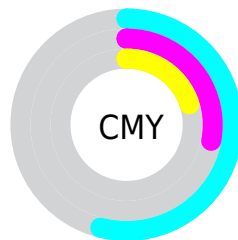
- Red (46%)
- Green (72%)
- Blue (80%)



- Red (46%)
- Yellow (61%)
- Blue (80%)



- Cyan (42%)
- Magenta (9%)
- Yellow (0%)
- Black (20%)




- Cyan (54%)
- Magenta (28%)
- Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 42.4443, 0.2516, 0.3017 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 42.4443, 0.2516, 0.3017 by changing the saturation by 10% instead.





 42.4443, 0.2516,  
0.3017

 42.4443, 0.2516,  
0.3017


356.3214, 0.2819,  
0.3161

 29.4493, 0.2441,  
0.2979


 78.8716, 0.2625,  
0.3071

 19.4210, 0.2347,  
0.2929

 103.0728, 0.2667,  
0.3091

 11.9749, 0.2222,  
0.2860


 131.7781, 0.2702,  
0.3107

 6.7266, 0.2052,  
0.2761

165.3720, 0.2732,  
0.3121

 3.2917, 0.1807,  
0.2608

204.2389, 0.2758,  
0.3133

 1.2859, 0.1431,  
0.2344

248.7632, 0.2781,

 0.1302, 0.0000,

0.3144

0.0904

299.3292, 0.2801,  
0.3153

0.0000, 0.0000,  
0.0000

42.4443, 0.2516,  
0.3017

42.4443, 0.2516,  
0.3017

39.3155, 0.2393,  
0.2940

45.9430, 0.2651,  
0.3090

36.5313, 0.2285,  
0.2860

49.8252, 0.2796,  
0.3159

34.0707, 0.2195,  
0.2778

54.1099, 0.2946,  
0.3222

31.9076, 0.2123,  
0.2695

58.8130, 0.3099,  
0.3280

30.0112, 0.2072,  
0.2613

63.9497, 0.3252,  
0.3332

■ 28.6205, 0.2041,  
0.2547

■ 69.5341, 0.3403,  
0.3379

■ 74.5908, 0.3511,  
0.3422

■ 76.9498, 0.3502,  
0.3467

■ 79.3738, 0.3493,  
0.3513

# Harmonies

## Analogous

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



42.4443, 0.2628, 0.3313



42.4443, 0.2516, 0.3017



42.4443, 0.2556, 0.2817

# Triad

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



42.4443, 0.2516, 0.3017



42.4443, 0.3370, 0.2988



42.4443, 0.3506, 0.3872

# Complementary

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



42.4443, 0.2516, 0.3017



31.9170, 0.4089, 0.3541

# 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.



42.4443, 0.3725, 0.3743



42.4443, 0.2516, 0.3017



42.4443, 0.3648, 0.3236

# Square

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



42.4443, 0.2516, 0.3017



42.4443, 0.3035, 0.2813



42.4443, 0.3780, 0.3508



42.4443, 0.3192, 0.3833



# Rectangle

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



42.4443, 0.2516, 0.3017



42.4443, 0.2665, 0.2757



42.4443, 0.3780, 0.3508



42.4443, 0.3593, 0.3845

# Sweetspot

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



42.4459, 0.2516, 0.3017



89.6014, 0.2926, 0.3214



48.3686, 0.2955, 0.4291



18.8266, 0.2892, 0.3200



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

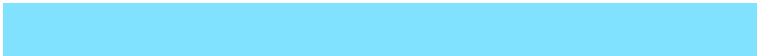


# Same Dimension

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



42.4459, 0.2516, 0.3017



66.4099, 0.2407, 0.2949



27.5454, 0.2412, 0.2378



12.2843, 0.2983, 0.3237



18.3496, 0.2044, 0.2558



1.0543, 0.2088, 0.2717



# Inverse Universe

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



29.1241, 0.3377, 0.2473



42.0841, 0.3447, 0.2314



46.2268, 0.3861, 0.4055



11.3591, 0.3171, 0.3112



9.6554, 0.3865, 0.1903

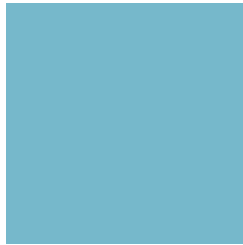


0.5090, 0.3712, 0.1819



# Previews

## White Background



This preview shows how the Yxy color 42.4443, 0.2516, 0.3017 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

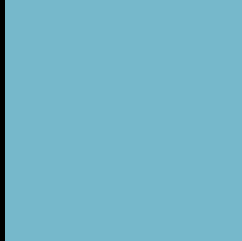
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 42.4443, 0.2516, 0.3017 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 42.4443, 0.2516, 0.3017**

## **Background**



This preview shows how black text looks on a background with the Yxy color 42.4443, 0.2516, 0.3017.



This preview shows how white text looks on a background with the Yxy color 42.4443, 0.2516, 0.3017.

# 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

42.4443, 0.2516, 0.3017

### Protanopia

41.9912, 0.2926, 0.2984

### Deuteranopia

41.8308, 0.2875, 0.2811



## Tritanopia

42.6034, 0.2536, 0.3087

# Trichromacy



**Original Color**

42.4443, 0.2516, 0.3017

**Protanomaly**

41.7072, 0.2756, 0.2987

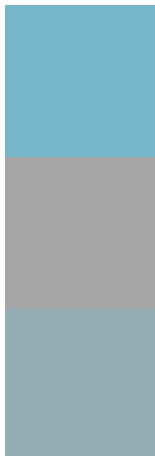
**Deuteranomaly**

41.5499, 0.2728, 0.2871

**Tritanomaly**

42.6500, 0.2530, 0.3073

# Monochromacy



**Original Color**

42.4443, 0.2516, 0.3017

**Achromatopsia**

38.1326, 0.3127, 0.3290

**Achromatomaly**

39.5314, 0.2874, 0.3203

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  42.4443, 0.2516, 0.3017 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(118, 184, 203)` looks like.

```
.text, #text, p{  
    color:rgb(118, 184, 203)  
}
```

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(118, 184, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 184, 203) }
```

## Border

The CSS property to change the border of an element to Yxy 42.4443, 0.2516, 0.3017 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(118, 184, 203) }
```

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

```
.border{ border-color:rgb(118, 184, 203) }
```

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

Here you see how a box with a 4 pixel `rgb(118, 184, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(118, 184, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(118, 184, 203);  
box-shadow:4px 4px 4px 4px rgb(118, 184,  
203) }
```



# Background

The CSS property to change the background color of an element to Yxy 42.4443, 0.2516, 0.3017 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 184, 203) }
```

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

```
.background{ background-color: rgb(118,  
184, 203) }
```

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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