

# Converting Colors

$Yxy(51.7641, 0.2722, 0.3707)$

Have a look what the booklet for  
Yxy(51.7641, 0.2722, 0.3707)  
contains.

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# Color

**Yxy(51.8331, 0.2720, 0.3701)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78CFB2
RGB	120, 207, 178
RGB Percent	47%, 81%, 70%
CMY	0.5295, 0.1882, 0.3019
CMYK	0.42, 0.00, 0.14, 0.19
HSL	160°, 48%, 64%
HSV	160°, 42%, 81%
XYZ	38.0940, 51.8331, 50.1245
YIQ	177.6810, -42.5430, -27.4630

# Conversions

## Conversions Part 2

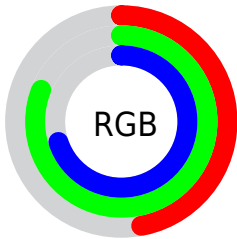
<b>Format</b>	<b>Color</b>
<b>RYB</b>	120, 172, 207
Decimal	7917490
CIELab	77.18, -33.00, 6.23
CIElCh	77, 33.579, 169.310
Yxy	51.8331, 0.2720, 0.3701
Android (android.graphics.Color)	4286107570 (0xFF78CFB2)
YUV	177.6810, 0.1573, -50.5862
Hunter-Lab	71.9952, -31.5439, 9.1178

# Details

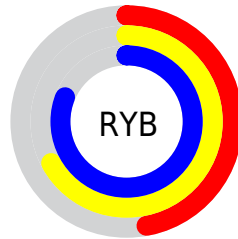
The Yxy color **51.8331, 0.2720, 0.3701** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **28.8650, 0.3836, 0.2923**, and the grayscale version is **44.3594, 0.3127, 0.3290**.

A 20% lighter version of the original color is **86.6906, 0.2783, 0.3522**, and **25.0610, 0.2612, 0.3826** is the 20% darker color. If you saturate the color by 10%, you get **50.2417, 0.2650, 0.3819**, and if you desaturate by 10%, it is **53.7625, 0.2804, 0.3590**.

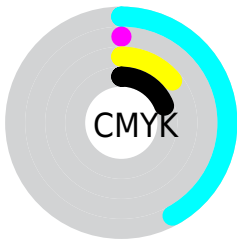
# Distribution



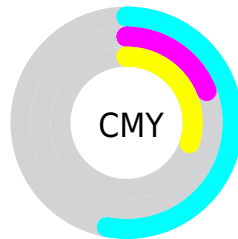
- Red (47%)
- Green (81%)
- Blue (70%)



- Red (47%)
- Yellow (67%)
- Blue (81%)



- Cyan (42%)
- Magenta (0%)
- Yellow (14%)
- Black (19%)




- Cyan (53%)
- Magenta (19%)
- Yellow (30%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.8331, 0.2720, 0.3701 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 51.8331, 0.2720, 0.3701 by changing the saturation by 10% instead.





 51.8331, 0.2720,  
0.3701

 51.8331, 0.2720,  
0.3701


393.7919, 0.2922,  
0.3494

 36.8721, 0.2670,  
0.3753


 92.8851, 0.2793,  
0.3626

 25.1084, 0.2607,  
0.3820


 119.7448, 0.2820,  
0.3597

 16.1579, 0.2522,  
0.3910


 151.3395, 0.2844,  
0.3573

 9.6359, 0.2406,  
0.4036

188.0536, 0.2864,  
0.3553

 5.1582, 0.2236,  
0.4225

230.2715, 0.2881,  
0.3535

 2.3404, 0.1964,  
0.4539

278.3776, 0.2896,

 0.7950, 0.0000,

0.3520

0.6489

332.7563, 0.2910,  
0.3506

0.0000, 0.0000,  
0.0000

51.8331, 0.2720,  
0.3701

51.8331, 0.2720,  
0.3701

50.2417, 0.2650,  
0.3819

53.7625, 0.2804,  
0.3590

48.9611, 0.2595,  
0.3943

56.0427, 0.2898,  
0.3486

47.9697, 0.2560,  
0.4070


58.6937, 0.2999,  
0.3392


47.2408, 0.2544,  
0.4199

61.7317, 0.3105,  
0.3306

46.7420, 0.2548,  
0.4326


65.1724, 0.3213,  
0.3230

 46.4643, 0.2563,  
0.4426

 69.0303, 0.3322,  
0.3161

 71.3949, 0.3353,  
0.3096

 71.7818, 0.3303,  
0.3028

 72.1841, 0.3253,  
0.2962

# Harmonies

## Analogous

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



51.8331, 0.3146, 0.4028



51.8331, 0.2720, 0.3701



51.8331, 0.2417, 0.3254

# Triad

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



51.8331, 0.2720, 0.3701



51.8331, 0.2645, 0.2564



51.8331, 0.4033, 0.3619

# Complementary

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



51.8331, 0.2720, 0.3701



28.8650, 0.3836, 0.2923

# 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.



51.8331, 0.3886, 0.3255



51.8331, 0.2720, 0.3701



51.8331, 0.3056, 0.2674

# Square

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



51.8331, 0.2720, 0.3701



51.8331, 0.2378, 0.2622



51.8331, 0.3517, 0.2920



51.8331, 0.3916, 0.3934



# Rectangle

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



51.8331, 0.2720, 0.3701



51.8331, 0.2315, 0.2977



51.8331, 0.3517, 0.2920



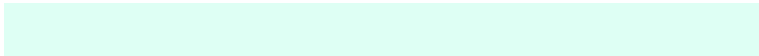
51.8331, 0.4013, 0.3499

# Sweetspot

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



51.8352, 0.2720, 0.3701



93.5549, 0.2988, 0.3402



52.3727, 0.3275, 0.4502



19.8135, 0.2965, 0.3423



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.



51.8352, 0.2720, 0.3701



80.8506, 0.2659, 0.3802



46.4174, 0.2525, 0.3087



13.3373, 0.3027, 0.3369



29.2913, 0.2558, 0.4408



1.6522, 0.2494, 0.4177



# Inverse Universe

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



28.8650, 0.3836, 0.2923



39.4695, 0.4060, 0.2854



31.8078, 0.4125, 0.3479



11.8723, 0.3239, 0.3213



8.6440, 0.5624, 0.2872



0.4979, 0.5103, 0.2585



# Previews

## White Background



This preview shows how the Yxy color 51.8331, 0.2720, 0.3701 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

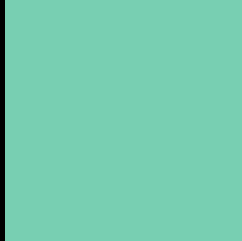
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.8331, 0.2720, 0.3701 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

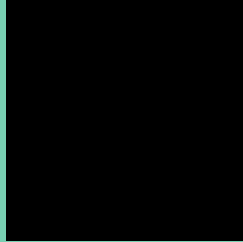
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

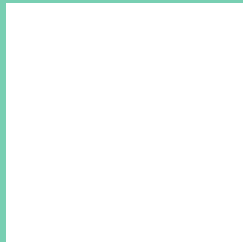
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 51.8331, 0.2720, 0.3701**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.8331, 0.2720, 0.3701.

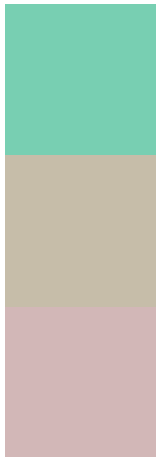


This preview shows how white text looks on a background with the Yxy color 51.8331, 0.2720, 0.3701.

# 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

51.8331, 0.2720, 0.3701

### Protanopia

51.2655, 0.3360, 0.3541

### Deuteranopia

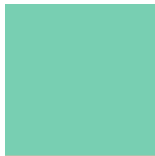
50.9875, 0.3360, 0.3291



## Tritanopia

51.5811, 0.2539, 0.3064

# Trichromacy



## Original Color

51.8331, 0.2720, 0.3701



## Protanomaly

51.0045, 0.3096, 0.3609



## Deuteranomaly

50.3826, 0.3088, 0.3433



## Tritanomaly

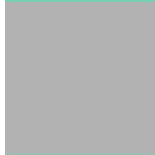
51.4593, 0.2603, 0.3288

# Monochromacy



## Original Color

51.8331, 0.2720, 0.3701



## Achromatopsia

44.5201, 0.3127, 0.3290



## Achromatomaly

46.7776, 0.2952, 0.3441

# CSS Examples

## Text

The CSS property to change the color of the text to  $Yxy$  51.8331, 0.2720, 0.3701 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(120, 207, 178)` looks like.

```
.text, #text, p{  
    color:rgb(120, 207, 178)  
}
```

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(120, 207, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 207, 178) }
```

## Border

The CSS property to change the border of an element to Yxy 51.8331, 0.2720, 0.3701 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(120, 207, 178) }
```

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

```
.border{ border-color:rgb(120, 207, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 207, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(120, 207, 178); -webkit-box-shadow:4px 4px 4px 4px rgb(120, 207, 178); box-shadow:4px 4px 4px 4px rgb(120, 207, 178) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.8331, 0.2720, 0.3701 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 207, 178) }
```

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

```
.background{ background-color: rgb(120,  
207, 178) }
```

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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