

# Converting Colors

$Y_{xy}(51.0325, 0.2806, 0.3919)$

Have a look what the booklet for  
Yxy(51.0325, 0.2806, 0.3919)  
contains.

<b>Yxy(51.2631, 0.2809, 0.3927)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

**Color**

**Yxy(51.2631, 0.2809, 0.3927)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78CFA3
RGB	120, 207, 163
RGB Percent	47%, 81%, 64%
CMY	0.5294, 0.1882, 0.3608
CMYK	0.42, 0.00, 0.21, 0.19
HSL	150°, 48%, 64%
HSV	150°, 42%, 81%
XYZ	36.6687, 51.2631, 42.6083
YIQ	175.9710, -37.7280, -32.1280

# Conversions

## Conversions Part 2

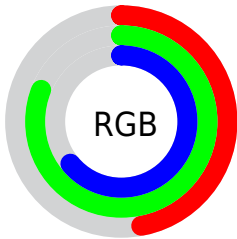
<b>Format</b>	<b>Color</b>
<b>RYB</b>	120, 178, 207
Decimal	7917475
CIELab	76.84, -36.17, 13.78
CIELCh	77, 38.710, 159.149
Yxy	51.2631, 0.2809, 0.3927
Android (android.graphics.Color)	4286107555 (0xFF78CFA3)
YUV	175.9710, -6.3947, -49.0866
Hunter-Lab	71.5983, -33.8790, 14.8352

# Details

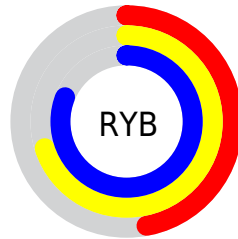
The Yxy color **51.2631, 0.2809, 0.3927** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **29.3801, 0.3650, 0.2739**, and the grayscale version is **43.4496, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.8121, 0.2864, 0.3706**, and **24.7280, 0.2715, 0.4124** is the 20% darker color. If you saturate the color by 10%, you get **49.5817, 0.2755, 0.4113**, and if you desaturate by 10%, it is **53.2997, 0.2875, 0.3752**.

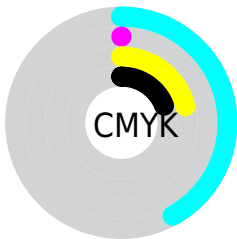
# Distribution



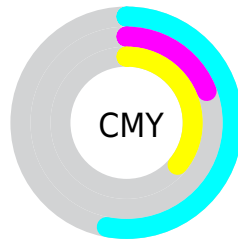
- Red (47%)
- Green (81%)
- Blue (64%)



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



- Cyan (42%)
- Magenta (0%)
- Yellow (21%)
- Black (19%)




- Cyan (53%)
- Magenta (19%)
- Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.2631, 0.2809, 0.3927 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 51.2631, 0.2809, 0.3927 by changing the saturation by 10% instead.




 51.2631, 0.2809,  
0.3927

 51.2631, 0.2809,  
0.3927

391.5851, 0.2972,  
0.3600


 36.4180, 0.2767,  
0.4011


 92.0436, 0.2869,  
0.3806

 24.7572, 0.2713,  
0.4121


 118.7477, 0.2891,  
0.3761

 15.8963, 0.2640,  
0.4269


 150.1738, 0.2910,  
0.3724

 9.4508, 0.2535,  
0.4481

186.7060, 0.2926,  
0.3692

 5.0364, 0.2375,  
0.4807

228.7289, 0.2940,  
0.3664

 2.2686, 0.2104,  
0.5365

276.6267, 0.2952,

 0.7570, 0.0000,

0.3640

1.0000

330.7840, 0.2962,  
0.3619

0.0000, 0.0000,  
0.0000

51.2631, 0.2809,  
0.3927

51.2631, 0.2809,  
0.3927

49.5817, 0.2755,  
0.4113

53.2997, 0.2875,  
0.3752

48.2276, 0.2715,  
0.4308

55.7049, 0.2949,  
0.3592

47.1789, 0.2693,  
0.4508


58.4989, 0.3028,  
0.3446


46.4080, 0.2691,  
0.4705

61.6988, 0.3110,  
0.3315

45.8822, 0.2709,  
0.4896


65.3204, 0.3193,  
0.3198

 45.5930, 0.2733,  
0.5040

 69.3788, 0.3275,  
0.3096

 71.9612, 0.3280,  
0.2998

 72.5889, 0.3206,  
0.2898

 73.1079, 0.3149,  
0.2821

# Harmonies

## Analogous

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



51.2631, 0.3319, 0.4218



51.2631, 0.2809, 0.3927



51.2631, 0.2406, 0.3422

# Triad

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



51.2631, 0.2809, 0.3927



51.2631, 0.2448, 0.2460



51.2631, 0.4153, 0.3517

# Complementary

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



51.2631, 0.2809, 0.3927



29.3801, 0.3650, 0.2739

# 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.



51.2631, 0.3884, 0.3108



51.2631, 0.2809, 0.3927



51.2631, 0.2868, 0.2526

# Square

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



51.2631, 0.2809, 0.3927



51.2631, 0.2215, 0.2589



51.2631, 0.3397, 0.2757



51.2631, 0.4115, 0.3911



# Rectangle

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



51.2631, 0.2809, 0.3927



51.2631, 0.2244, 0.3077



51.2631, 0.3397, 0.2757



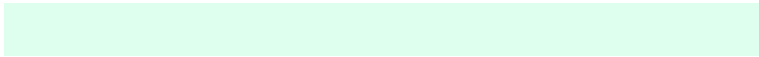
51.2631, 0.4096, 0.3379

# Sweetspot

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



51.2652, 0.2809, 0.3927



93.2125, 0.3019, 0.3461



53.9783, 0.3400, 0.4453



19.7288, 0.3001, 0.3493



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.



51.2652, 0.2809, 0.3927



79.8102, 0.2762, 0.4086



53.0557, 0.2566, 0.3308



13.3023, 0.3050, 0.3410



28.7432, 0.2727, 0.5015



1.6232, 0.2632, 0.4676



# Inverse Universe

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



29.3801, 0.3650, 0.2739



40.3739, 0.3808, 0.2633



28.0909, 0.4188, 0.3275



11.9066, 0.3212, 0.3173



9.0159, 0.4920, 0.2484



0.5201, 0.4522, 0.2265



# Previews

## White Background



This preview shows how the Yxy color 51.2631, 0.2809, 0.3927 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

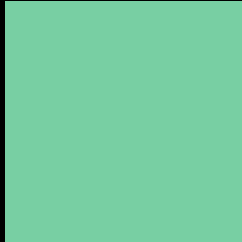
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.2631, 0.2809, 0.3927 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

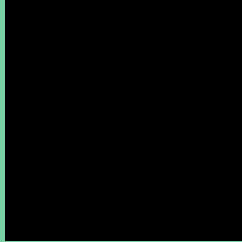
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 51.2631, 0.2809, 0.3927**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.2631, 0.2809, 0.3927.



This preview shows how white text looks on a background with the Yxy color 51.2631, 0.2809, 0.3927.

# 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

51.2631, 0.2809, 0.3927

### Protanopia

50.5789, 0.3502, 0.3718

### Deuteranopia

50.5792, 0.3524, 0.3460



## Tritanopia

51.2530, 0.2565, 0.3077

# Trichromacy



## Original Color

51.2631, 0.2809, 0.3927



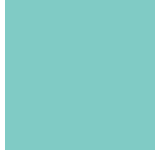
## Protanomaly

50.1225, 0.3215, 0.3801



## Deuteranomaly

49.7181, 0.3227, 0.3619



## Tritanomaly

51.3323, 0.2649, 0.3371

# Monochromacy



## Original Color

51.2631, 0.2809, 0.3927



## Achromatopsia

43.4154, 0.3127, 0.3290



## Achromatomaly

45.5488, 0.2995, 0.3513

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.2631, 0.2809, 0.3927 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, 163)` looks like.

```
.text, #text, p{  
    color:rgb(120, 207, 163)  
}
```

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, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 207, 163) }
```

## Border

The CSS property to change the border of an element to Yxy 51.2631, 0.2809, 0.3927 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, 163) }
```

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

```
.border{ border-color:rgb(120, 207, 163) }
```

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, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(120, 207, 163); -webkit-box-shadow:4px 4px 4px 4px rgb(120, 207, 163); box-shadow:4px 4px 4px 4px rgb(120, 207, 163) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.2631, 0.2809, 0.3927 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, 163) }
```

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

```
.background{ background-color: rgb(120,  
207, 163) }
```

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