

# Converting Colors

$Yxy(51.9377, 0.2699, 0.3830)$

Have a look what the booklet for  
Yxy(51.9377, 0.2699, 0.3830)  
contains.

<b>Yxy(51.8307, 0.2698, 0.3825)</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(51.8307, 0.2698, 0.3825)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6DD1AC
RGB	109, 209, 172
RGB Percent	43%, 82%, 67%
CMY	0.5723, 0.1804, 0.3254
CMYK	0.48, 0.00, 0.18, 0.18
HSL	158°, 52%, 62%
HSV	158°, 48%, 82%
XYZ	36.5593, 51.8307, 47.1151
YIQ	174.8820, -47.7230, -32.7070

# Conversions

## Conversions Part 2

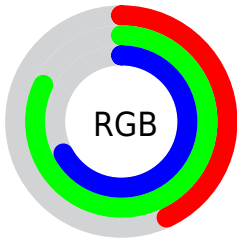
<b>Format</b>	<b>Color</b>
<b>RYB</b>	109, 170, 209
Decimal	7197100
CIELab	77.18, -38.01, 9.38
CIELCh	77, 39.149, 166.136
Yxy	51.8307, 0.2698, 0.3825
Android (android.graphics.Color)	4285387180 (0xFF6DD1AC)
YUV	174.8820, -1.4208, -57.7785
Hunter-Lab	71.9935, -35.3440, 11.5940

# Details

The Yxy color **51.8307, 0.2698, 0.3825** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **26.5795, 0.3935, 0.2830**, and the grayscale version is **42.8393, 0.3127, 0.3290**.

A 20% lighter version of the original color is **85.1730, 0.2767, 0.3606**, and **25.1454, 0.2574, 0.3980** is the 20% darker color. If you saturate the color by 10%, you get **50.3718, 0.2640, 0.3962**, and if you desaturate by 10%, it is **53.6262, 0.2771, 0.3695**.

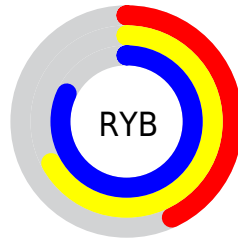
# Distribution



Red (43%)

Green (82%)

Blue (67%)



Red (43%)

Yellow (67%)

Blue (82%)

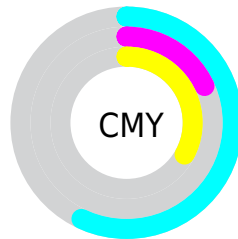


Cyan (48%)

Magenta (0%)

Yellow (18%)

Black (18%)



Cyan (57%)

Magenta (18%)


Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 51.8307, 0.2698, 0.3825 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 51.8307, 0.2698, 0.3825 by changing the saturation by 10% instead.





 51.8307, 0.2698,  
0.3825


 51.8307, 0.2698,  
0.3825


393.7827, 0.2913,  
0.3553

 36.8701, 0.2645,  
0.3894


 92.8815, 0.2776,  
0.3725

 25.1070, 0.2576,  
0.3984


 119.7406, 0.2805,  
0.3688

 16.1568, 0.2485,  
0.4104


 151.3346, 0.2830,  
0.3657

 9.6352, 0.2358,  
0.4275

188.0479, 0.2851,  
0.3630

 5.1577, 0.2171,  
0.4533

230.2650, 0.2870,  
0.3607

 2.3401, 0.1869,  
0.4969

278.3702, 0.2886,

 0.7948, 0.0000,

0.3587

0.7913

332.7480, 0.2900,  
0.3569

0.0000, 0.0000,  
0.0000

51.8307, 0.2698,  
0.3825

51.8307, 0.2698,  
0.3825

50.3718, 0.2640,  
0.3962

53.6262, 0.2771,  
0.3695

49.2203, 0.2599,  
0.4103

55.7727, 0.2856,  
0.3574

48.3523, 0.2578,  
0.4247


58.2914, 0.2949,  
0.3463


47.7372, 0.2577,  
0.4390

61.2000, 0.3048,  
0.3362

47.3317, 0.2595,  
0.4531


64.5148, 0.3150,  
0.3271

 47.2559, 0.2600,  
0.4561

 68.2514, 0.3252,  
0.3190

 72.3581, 0.3352,  
0.3118

 72.7926, 0.3296,  
0.3042

 73.2465, 0.3241,  
0.2967

# Harmonies

## Analogous

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



51.8307, 0.3197, 0.4186



51.8307, 0.2698, 0.3825



51.8307, 0.2333, 0.3297

# Triad

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



51.8307, 0.2698, 0.3825



51.8307, 0.2526, 0.2453



51.8307, 0.4180, 0.3615

# Complementary

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



51.8307, 0.2698, 0.3825



26.5795, 0.3935, 0.2830

# 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.



51.8307, 0.3978, 0.3200



51.8307, 0.2698, 0.3825



51.8307, 0.2985, 0.2561

# Square

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



51.8307, 0.2698, 0.3825



51.8307, 0.2245, 0.2535



51.8307, 0.3524, 0.2827



51.8307, 0.4070, 0.3995



# Rectangle

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



51.8307, 0.2698, 0.3825



51.8307, 0.2204, 0.2965



51.8307, 0.3524, 0.2827



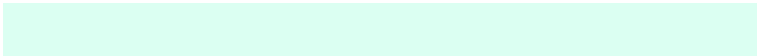
51.8307, 0.4147, 0.3476

# Sweetspot

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



51.8328, 0.2698, 0.3825



93.0249, 0.2984, 0.3425



52.9410, 0.3323, 0.4672



19.7052, 0.2963, 0.3448



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.



51.8328, 0.2698, 0.3825



79.0401, 0.2641, 0.3959



47.9431, 0.2469, 0.3126



13.3298, 0.3032, 0.3377



29.1574, 0.2595, 0.4541



1.6453, 0.2523, 0.4284



# Inverse Universe

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



26.5795, 0.3935, 0.2830



34.9962, 0.4200, 0.2751



28.2650, 0.4364, 0.3440



11.8795, 0.3233, 0.3204



8.7086, 0.5482, 0.2793

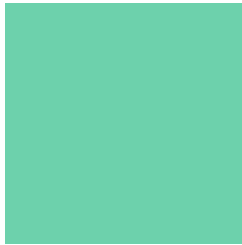


0.5021, 0.4978, 0.2516



# Previews

## White Background



This preview shows how the Yxy color 51.8307, 0.2698, 0.3825 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

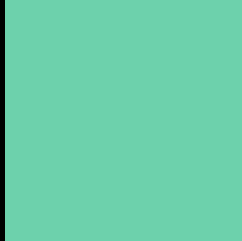
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 51.8307, 0.2698, 0.3825 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

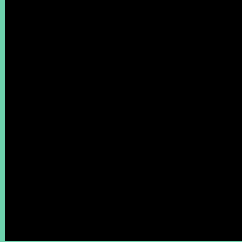
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

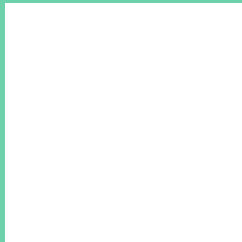
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 51.8307, 0.2698, 0.3825**

## **Background**



This preview shows how black text looks on a background with the Yxy color 51.8307, 0.2698, 0.3825.

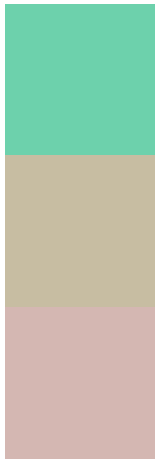


This preview shows how white text looks on a background with the Yxy color 51.8307, 0.2698, 0.3825.

# 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

51.8307, 0.2698, 0.3825

### Protanopia

51.1459, 0.3425, 0.3629

### Deuteranopia

51.0784, 0.3419, 0.3351



## Tritanopia

51.9639, 0.2496, 0.3076

# Trichromacy



## Original Color

51.8307, 0.2698, 0.3825



## Protanomaly

50.3400, 0.3108, 0.3695



## Deuteranomaly

49.9478, 0.3109, 0.3500



## Tritanomaly

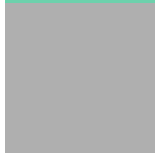
51.7088, 0.2565, 0.3330

# Monochromacy



## Original Color

51.8307, 0.2698, 0.3825



## Achromatopsia

42.8690, 0.3127, 0.3290



## Achromatomaly

45.1759, 0.2934, 0.3472

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 51.8307, 0.2698, 0.3825 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(109, 209, 172)` looks like.

```
.text, #text, p{  
    color:rgb(109, 209, 172)  
}
```

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(109, 209, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(109, 209, 172) }
```

## Border

The CSS property to change the border of an element to Yxy 51.8307, 0.2698, 0.3825 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(109, 209, 172) }
```

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

```
.border{ border-color:rgb(109, 209, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(109, 209, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(109, 209, 172); -webkit-box-shadow:4px 4px 4px 4px rgb(109, 209, 172); box-shadow:4px 4px 4px 4px rgb(109, 209, 172) }
```



# Background

The CSS property to change the background color of an element to Yxy 51.8307, 0.2698, 0.3825 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(109, 209, 172) }
```

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

```
.background{ background-color: rgb(109,  
209, 172) }
```

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