

# Converting Colors

$Y_{xy}(45.9035, 0.2900, 0.3478)$

Have a look what the booklet for  
Yxy(45.9035, 0.2900, 0.3478)  
contains.

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# Color

**Yxy(45.8257, 0.2898, 0.3472)**

# Conversions

## Conversions Part 1

Format	Color
Hex	94BDB0
RGB	148, 189, 176
RGB Percent	58%, 74%, 69%
CMY	0.4196, 0.2588, 0.3097
CMYK	0.22, 0.00, 0.07, 0.26
HSL	161°, 24%, 66%
HSV	161°, 22%, 74%
XYZ	38.2497, 45.8257, 47.9111
YIQ	175.2590, -20.2630, -12.7350

# Conversions

## Conversions Part 2

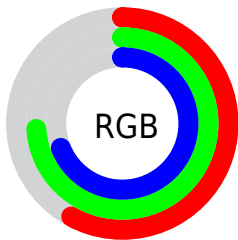
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">148, 172, 189</a>
Decimal	<a href="#">9747888</a>
CIELab	<a href="#">73.43, -16.34, 2.07</a>
CIELCh	<a href="#">73, 16.468, 172.769</a>
Yxy	<a href="#">45.8257, 0.2898, 0.3472</a>
Android (android.graphics.Color)	<a href="#">4287937968 (0xFF94BDB0)</a>
YUV	<a href="#">175.2590, 0.3653, -23.9061</a>
Hunter-Lab	<a href="#">67.6947, -17.6074, 5.4236</a>

# Details

The Yxy color  $45.8257, 0.2898, 0.3472$  is a light color, and the websafe version is hex  $99CCCC$ . A complement of this color would be  $34.5763, 0.3425, 0.3116$ , and the grayscale version is  $43.0194, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $83.8275, 0.2940, 0.3430$ , and  $21.5504, 0.2824, 0.3525$  is the 20% darker color. If you saturate the color by 10%, you get  $43.9746, 0.2802, 0.3569$ , and if you desaturate by 10%, it is  $47.9788, 0.3001, 0.3383$ .

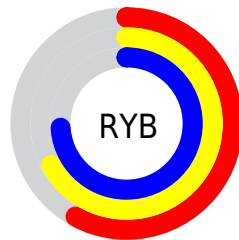
# Distribution



Red (58%)

Green (74%)

Blue (69%)



Red (58%)

Yellow (67%)

Blue (74%)

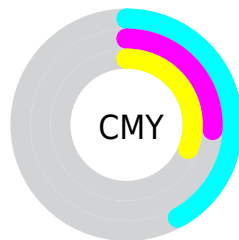


Cyan (22%)

Magenta (0%)

Yellow (7%)

Black (26%)



Cyan (42%)

Magenta (26%)

Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.8257, 0.2898, 0.3472 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 45.8257, 0.2898, 0.3472 by changing the saturation by 10% instead.




 45.8257, 0.2898,  
0.3472


 45.8257, 0.2898,  
0.3472

370.1075, 0.3013,  
0.3380

 32.1083, 0.2869,  
0.3495


 83.9581, 0.2940,  
0.3438

 21.4442, 0.2832,  
0.3526


 109.1419, 0.2956,  
0.3426

 13.4491, 0.2782,  
0.3566


138.9165, 0.2969,  
0.3415

 7.7385, 0.2711,  
0.3624

173.6665, 0.2980,  
0.3406

 3.9281, 0.2605,  
0.3712

213.7762, 0.2990,  
0.3398

 1.6334, 0.2427,  
0.3862

259.6300, 0.2999,

 0.3800, 0.0000,

0.3391

0.5857

311.6123, 0.3007,  
0.3385

0.0000, 0.0000,  
0.0000

45.8257, 0.2898,  
0.3472

45.8257, 0.2898,  
0.3472

43.9746, 0.2802,  
0.3569

47.9788, 0.3001,  
0.3383

42.4057, 0.2717,  
0.3673

50.4414, 0.3109,  
0.3303

41.1058, 0.2644,  
0.3784

53.2277, 0.3219,  
0.3231

40.0580, 0.2588,  
0.3901

56.3494, 0.3329,  
0.3166

39.2438, 0.2549,  
0.4020

59.8175, 0.3438,  
0.3110

■ 38.6419, 0.2531,  
0.4141

■ 62.4056, 0.3491,  
0.3055

■ 38.2269, 0.2532,  
0.4261

■ 62.7133, 0.3443,  
0.2995

■ 37.9835, 0.2544,  
0.4360

■ 63.0323, 0.3395,  
0.2936

■ 63.3628, 0.3347,  
0.2877

# Harmonies

## Analogous

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



45.8257, 0.3118, 0.3639



45.8257, 0.2898, 0.3472



45.8257, 0.2743, 0.3255

# Triad

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



45.8257, 0.2898, 0.3472



45.8257, 0.2901, 0.2906



45.8257, 0.3588, 0.3496

# Complementary

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



45.8257, 0.2898, 0.3472



34.5763, 0.3425, 0.3116

# 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.



45.8257, 0.3526, 0.3304



45.8257, 0.2898, 0.3472



45.8257, 0.3123, 0.2972

# Square

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



45.8257, 0.2898, 0.3472



45.8257, 0.2744, 0.2934



45.8257, 0.3354, 0.3115



45.8257, 0.3520, 0.3644



# Rectangle

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



45.8257, 0.2898, 0.3472



45.8257, 0.2693, 0.3118



45.8257, 0.3354, 0.3115



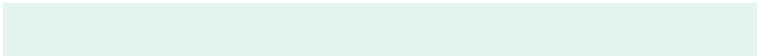
45.8257, 0.3581, 0.3435

# Sweetspot

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



45.8276, 0.2898, 0.3472



87.8769, 0.3050, 0.3345



46.1812, 0.3212, 0.3865



18.8413, 0.3043, 0.3350



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290



# Same Dimension

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



45.8276, 0.2898, 0.3472



80.4424, 0.2852, 0.3517



43.4965, 0.2802, 0.3194



10.7567, 0.3026, 0.3364



25.5709, 0.2540, 0.4344



1.0130, 0.2461, 0.4060



# Inverse Universe

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



34.5763, 0.3425, 0.3116



56.7180, 0.3509, 0.3075



36.3486, 0.3540, 0.3384



9.5848, 0.3240, 0.3218



7.5103, 0.5673, 0.2899



0.3064, 0.4977, 0.2515



# Previews

## White Background



This preview shows how the Yxy color 45.8257, 0.2898, 0.3472 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 45.8257, 0.2898, 0.3472 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

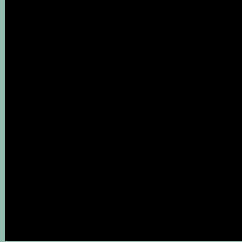
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.8257, 0.2898, 0.3472**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.8257, 0.2898, 0.3472.



This preview shows how white text looks on a background with the Yxy color 45.8257, 0.2898, 0.3472.

# 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

45.8257, 0.2898, 0.3472

### Protanopia

45.4948, 0.3245, 0.3395

### Deuteranopia

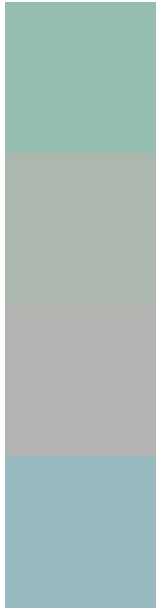
45.3971, 0.3291, 0.3227



## Tritanopia

45.6404, 0.2767, 0.3087

# Trichromacy



## Original Color

45.8257, 0.2898, 0.3472

## Protanomaly

45.6548, 0.3112, 0.3425

## Deuteranomaly

45.0383, 0.3135, 0.3303

## Tritanomaly

45.4587, 0.2814, 0.3220

# Monochromacy



## Original Color

45.8257, 0.2898, 0.3472

## Achromatopsia

42.8690, 0.3127, 0.3290

## Achromatomaly

43.7370, 0.3039, 0.3359

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.8257, 0.2898, 0.3472 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(148, 189, 176)` looks like.

```
.text, #text, p{  
    color:rgb(148, 189, 176)  
}
```

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(148, 189, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 189, 176) }
```

## Border

The CSS property to change the border of an element to Yxy 45.8257, 0.2898, 0.3472 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(148, 189, 176) }
```

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

```
.border{ border-color:rgb(148, 189, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(148, 189, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(148, 189, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(148, 189, 176);  
box-shadow:4px 4px 4px 4px rgb(148, 189,  
176) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.8257, 0.2898, 0.3472 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 189, 176) }
```

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

```
.background{ background-color: rgb(148,  
189, 176) }
```

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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