

# Converting Colors

$Y_{xy}(45.6998, 0.2676, 0.3149)$

Have a look what the booklet for  
Yxy(45.6998, 0.2676, 0.3149)  
contains.

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# Color

**Yxy(45.9220, 0.2675, 0.3151)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8ABDC7
RGB	138, 189, 199
RGB Percent	54%, 74%, 78%
CMY	0.4588, 0.2588, 0.2197
CMYK	0.31, 0.05, 0.00, 0.22
HSL	190°, 35%, 66%
HSV	190°, 31%, 78%
XYZ	38.9849, 45.9220, 60.8310
YIQ	174.8910, -33.6060, -7.7020

# Conversions

## Conversions Part 2

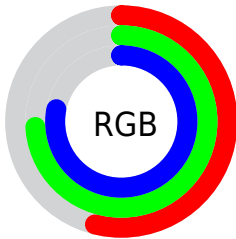
Format	Color
R <sub>YB</sub>	138, 166, 199
Decimal	9092551
CIE Lab	73.49, -14.26, -10.42
CIE LCh	73, 17.659, 216.164
Yxy	45.9220, 0.2675, 0.3151
Android (android.graphics.Color)	4287282631 (0xFF8ABDC7)
YUV	174.8910, 11.8857, -32.3534
Hunter-Lab	67.7658, -15.9011, -5.7865

# Details

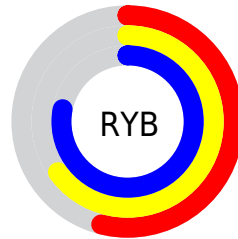
The Yxy color **45.9220, 0.2675, 0.3151** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **35.1450, 0.3772, 0.3424**, and the grayscale version is **42.7606, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.8623, 0.2759, 0.3182**, and **21.5839, 0.2550, 0.3116** is the 20% darker color. If you saturate the color by 10%, you get **42.9946, 0.2544, 0.3099**, and if you desaturate by 10%, it is **49.1954, 0.2816, 0.3200**.

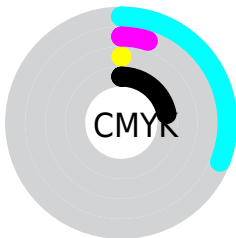
# Distribution



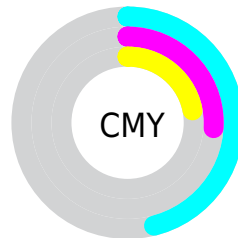
- Red (54%)
- Green (74%)
- Blue (78%)



- Red (54%)
- Yellow (65%)
- Blue (78%)



- Cyan (31%)
- Magenta (5%)
- Yellow (0%)
- Black (22%)




- Cyan (46%)
- Magenta (26%)
- Yellow (22%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.9220, 0.2675, 0.3151 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 45.9220, 0.2675, 0.3151 by changing the saturation by 10% instead.





 45.9220, 0.2675,  
0.3151


 45.9220, 0.2675,  
0.3151

370.4950, 0.2898,  
0.3224


 32.1843, 0.2620,  
0.3132


 84.1023, 0.2755,  
0.3178

 21.5023, 0.2550,  
0.3106


 109.3136, 0.2786,  
0.3189

 13.4917, 0.2459,  
0.3071


 139.1182, 0.2812,  
0.3197

 7.7680, 0.2333,  
0.3020

173.9006, 0.2834,  
0.3204

 3.9468, 0.2150,  
0.2941

214.0450, 0.2853,  
0.3210

 1.6439, 0.1863,  
0.2801

259.9360, 0.2870,

 0.3869, 0.0126,

0.3216

0.2467

311.9578, 0.2885,  
0.3220

0.0000, 0.0000,  
0.0000

45.9220, 0.2675,  
0.3151

45.9220, 0.2675,  
0.3151

42.9946, 0.2544,  
0.3099

49.1954, 0.2816,  
0.3200

40.3906, 0.2426,  
0.3044

52.8252, 0.2965,  
0.3246

38.0928, 0.2324,  
0.2987

56.8281, 0.3117,  
0.3287

36.0804, 0.2240,  
0.2928

61.2180, 0.3271,  
0.3325

34.3295, 0.2175,  
0.2870

66.0082, 0.3424,  
0.3359

■ 32.8117, 0.2129,  
0.2812

■ 70.7562, 0.3556,  
0.3389

■ 31.5539, 0.2099,  
0.2758

■ 72.3651, 0.3549,  
0.3423

■ 74.0067, 0.3542,  
0.3455

■ 75.6813, 0.3535,  
0.3488

# Harmonies

## Analogous

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



45.9220, 0.2796, 0.3383



45.9220, 0.2675, 0.3151



45.9220, 0.2670, 0.2970

# Triad

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



45.9220, 0.2675, 0.3151



45.9220, 0.3236, 0.3010



45.9220, 0.3476, 0.3711

# Complementary

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



45.9220, 0.2675, 0.3151



35.1450, 0.3772, 0.3424

# 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.



45.9220, 0.3605, 0.3590



45.9220, 0.2675, 0.3151



45.9220, 0.3464, 0.3189

# Square

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



45.9220, 0.2675, 0.3151



45.9220, 0.2985, 0.2899



45.9220, 0.3602, 0.3398



45.9220, 0.3255, 0.3718



# Rectangle

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



45.9220, 0.2675, 0.3151



45.9220, 0.2732, 0.2900



45.9220, 0.3602, 0.3398



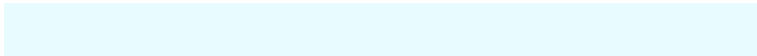
45.9220, 0.3532, 0.3682

# Sweetspot

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



45.9238, 0.2675, 0.3151



93.5324, 0.2988, 0.3252



48.3530, 0.3024, 0.4042



19.8071, 0.2965, 0.3246



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

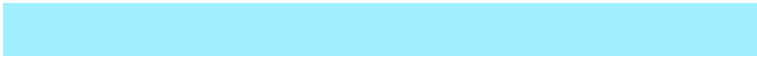


# Same Dimension

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



45.9238, 0.2675, 0.3151



76.8264, 0.2583, 0.3115



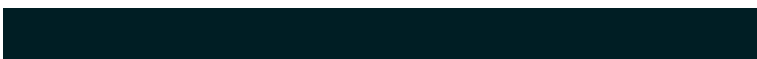
34.4389, 0.2626, 0.2720



11.7607, 0.2984, 0.3251



20.4026, 0.2102, 0.2766



1.0471, 0.2135, 0.2886



# Inverse Universe

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



33.9895, 0.3259, 0.2649



52.8932, 0.3296, 0.2505



45.6711, 0.3659, 0.3800



10.7857, 0.3162, 0.3099



9.5996, 0.3667, 0.1793

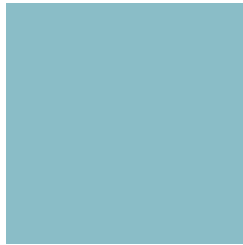


0.4627, 0.3556, 0.1733



# Previews

## White Background



This preview shows how the Yxy color 45.9220, 0.2675, 0.3151 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

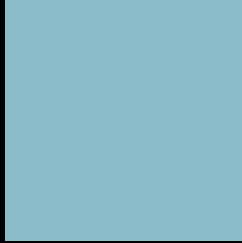
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.9220, 0.2675, 0.3151 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

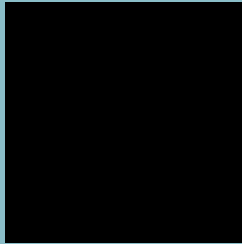
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.9220, 0.2675, 0.3151**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.9220, 0.2675, 0.3151.

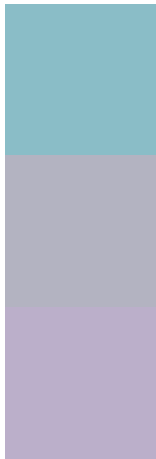


This preview shows how white text looks on a background with the Yxy color 45.9220, 0.2675, 0.3151.

# 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

45.9220, 0.2675, 0.3151

### Protanopia

45.6742, 0.3017, 0.3108

### Deuteranopia

45.4890, 0.3015, 0.2950



## Tritanopia

45.7672, 0.2655, 0.3083

# Trichromacy



## Original Color

45.9220, 0.2675, 0.3151

## Protanomaly

45.6996, 0.2883, 0.3130

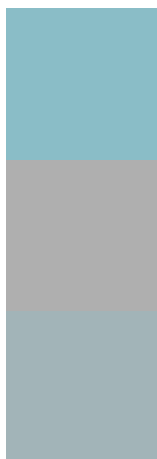
## Deuteranomaly

45.2946, 0.2877, 0.3015

## Tritanomaly

45.7197, 0.2661, 0.3097

# Monochromacy



## Original Color

45.9220, 0.2675, 0.3151

## Achromatopsia

42.8690, 0.3127, 0.3290

## Achromatomaly

43.7846, 0.2946, 0.3235

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.9220, 0.2675, 0.3151 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(138, 189, 199)` looks like.

```
.text, #text, p{  
    color:rgb(138, 189, 199)  
}
```

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(138, 189, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(138, 189, 199) }
```

## Border

The CSS property to change the border of an element to Yxy 45.9220, 0.2675, 0.3151 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(138, 189, 199) }
```

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

```
.border{ border-color:rgb(138, 189, 199) }
```

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

Here you see how a box with a 4 pixel `rgb(138, 189, 199)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(138, 189, 199); -webkit-box-  
shadow:4px 4px 4px 4px rgb(138, 189, 199);  
box-shadow:4px 4px 4px 4px rgb(138, 189,  
199) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.9220, 0.2675, 0.3151 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(138, 189, 199) }
```

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

```
.background{ background-color: rgb(138,  
189, 199) }
```

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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