

# Converting Colors

$Y_{xy}(45.8512, 0.2624, 0.3125)$

Have a look what the booklet for  
Yxy(45.8512, 0.2624, 0.3125)  
contains.

<b>Yxy(45.9495, 0.2626, 0.3136)</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(45.9495, 0.2626, 0.3136)**

# Conversions

## Conversions Part 1

Format	Color
Hex	84BEC9
RGB	132, 190, 201
RGB Percent	52%, 75%, 79%
CMY	0.4822, 0.2549, 0.2118
CMYK	0.34, 0.05, 0.00, 0.21
HSL	190°, 39%, 65%
HSV	190°, 34%, 79%
XYZ	38.4768, 45.9495, 62.0963
YIQ	173.9120, -38.0990, -8.8750

# Conversions

## Conversions Part 2

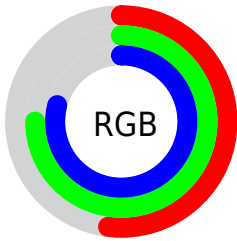
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	132, 164, 201
Decimal	8699593
CIE <sub>Lab</sub>	73.51, -15.95, -11.52
CIE <sub>LCh</sub>	74, 19.681, 215.841
Yxy	45.9495, 0.2626, 0.3136
Android (android.graphics.Color)	4286889673 (0xFF84BEC9)
YUV	173.9120, 13.3544, -36.7568
Hunter-Lab	67.7861, -17.3051, -6.8631

# Details

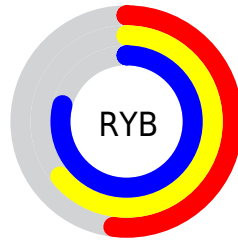
The Yxy color **45.9495, 0.2626, 0.3136** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **33.7447, 0.3879, 0.3437**, and the grayscale version is **42.2306, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.6963, 0.2727, 0.3192**, and **21.6602, 0.2492, 0.3096** is the 20% darker color. If you saturate the color by 10%, you get **43.1092, 0.2500, 0.3084**, and if you desaturate by 10%, it is **49.1362, 0.2764, 0.3185**.

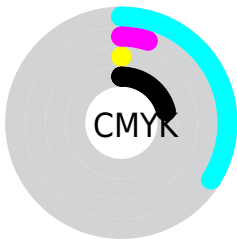
# Distribution



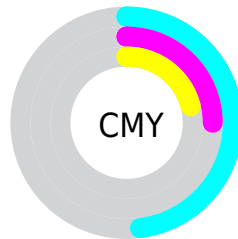
- Red (52%)
- Green (75%)
- Blue (79%)



- Red (52%)
- Yellow (64%)
- Blue (79%)



- Cyan (34%)
- Magenta (5%)
- Yellow (0%)
- Black (21%)



- Cyan (48%)
- Magenta (25%)
- Yellow (21%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.9495, 0.2626, 0.3136 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 45.9495, 0.2626, 0.3136 by changing the saturation by 10% instead.





 45.9495, 0.2626,  
0.3136


 45.9495, 0.2626,  
0.3136


370.6056, 0.2873,  
0.3218


 32.2060, 0.2566,  
0.3114


 84.1434, 0.2715,  
0.3167

 21.5189, 0.2489,  
0.3086


 109.3626, 0.2748,  
0.3178

 13.5038, 0.2388,  
0.3047


 139.1758, 0.2777,  
0.3187

 7.7764, 0.2251,  
0.2990

173.9674, 0.2802,  
0.3195

 3.9522, 0.2052,  
0.2900

214.1217, 0.2823,  
0.3202

 1.6469, 0.1745,  
0.2744

260.0233, 0.2842,

 0.3889, 0.0000,

0.3208

0.2367

312.0565, 0.2858,  
0.3213

0.0000, 0.0000,  
0.0000

45.9495, 0.2626,  
0.3136

45.9495, 0.2626,  
0.3136

43.1092, 0.2500,  
0.3084

49.1362, 0.2764,  
0.3185

40.5917, 0.2388,  
0.3029

52.6806, 0.2910,  
0.3231

38.3788, 0.2293,  
0.2973

56.6001, 0.3061,  
0.3273

36.4480, 0.2216,  
0.2916

60.9093, 0.3215,  
0.3311

34.7734, 0.2159,  
0.2859

65.6220, 0.3369,  
0.3346

■ 33.3236, 0.2120,  
0.2803

■ 70.7512, 0.3521,  
0.3376

■ 32.5650, 0.2103,  
0.2771

■ 72.7865, 0.3532,  
0.3408

■ 74.4103, 0.3526,  
0.3441

■ 76.0663, 0.3519,  
0.3473

# Harmonies

## Analogous

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



45.9495, 0.2761, 0.3396



45.9495, 0.2626, 0.3136



45.9495, 0.2619, 0.2935

# Triad

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



45.9495, 0.2626, 0.3136



45.9495, 0.3245, 0.2978



45.9495, 0.3517, 0.3759

# Complementary

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



45.9495, 0.2626, 0.3136



33.7447, 0.3879, 0.3437

# 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.



45.9495, 0.3661, 0.3620



45.9495, 0.2626, 0.3136



45.9495, 0.3501, 0.3175

# Square

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



45.9495, 0.2626, 0.3136



45.9495, 0.2966, 0.2856



45.9495, 0.3656, 0.3406



45.9495, 0.3271, 0.3770



# Rectangle

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



45.9495, 0.2626, 0.3136



45.9495, 0.2686, 0.2858



45.9495, 0.3656, 0.3406



45.9495, 0.3579, 0.3724

# Sweetspot

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



45.9513, 0.2626, 0.3136



92.9118, 0.2972, 0.3249



48.6459, 0.3013, 0.4149



19.6854, 0.2951, 0.3243



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

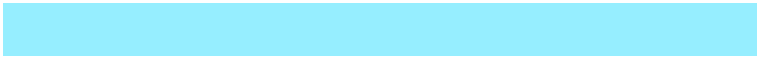


# Same Dimension

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



45.9513, 0.2626, 0.3136



75.0813, 0.2533, 0.3098



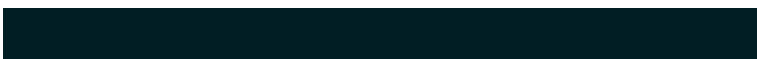
32.9644, 0.2561, 0.2640



11.7682, 0.2984, 0.3252



20.5884, 0.2105, 0.2779



1.0543, 0.2138, 0.2896



# Inverse Universe

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



32.6508, 0.3276, 0.2569



49.4084, 0.3315, 0.2420



45.4753, 0.3733, 0.3863



10.7864, 0.3162, 0.3098



9.6184, 0.3654, 0.1787

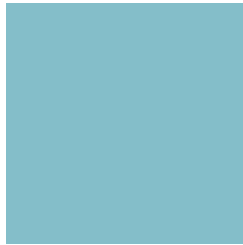


0.4634, 0.3547, 0.1727



# Previews

## White Background



This preview shows how the Yxy color 45.9495, 0.2626, 0.3136 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

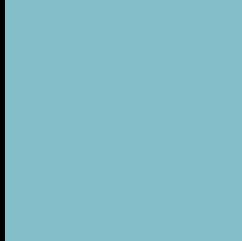
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.9495, 0.2626, 0.3136 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

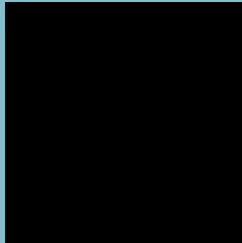
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 45.9495, 0.2626, 0.3136**

## Background



This preview shows how black text looks on a background with the Yxy color 45.9495, 0.2626, 0.3136.



This preview shows how white text looks on a background with the Yxy color 45.9495, 0.2626, 0.3136.

# 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

45.9495, 0.2626, 0.3136

### Protanopia

45.7189, 0.3010, 0.3096

### Deuteranopia

45.4587, 0.2991, 0.2925



## Tritanopia

45.7895, 0.2606, 0.3068

# Trichromacy



## Original Color

45.9495, 0.2626, 0.3136

## Protanomaly

45.5796, 0.2853, 0.3103

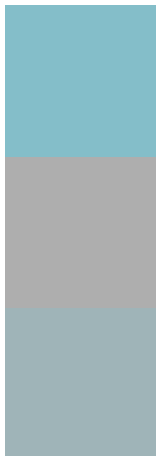
## Deuteranomaly

45.0613, 0.2839, 0.2988

## Tritanomaly

45.7414, 0.2612, 0.3082

# Monochromacy



## Original Color

45.9495, 0.2626, 0.3136

## Achromatopsia

42.3268, 0.3127, 0.3290

## Achromatomaly

43.4741, 0.2922, 0.3234

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.9495, 0.2626, 0.3136 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(132, 190, 201)` looks like.

```
.text, #text, p{  
    color:rgb(132, 190, 201)  
}
```

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(132, 190, 201) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 190, 201) }
```

## Border

The CSS property to change the border of an element to Yxy 45.9495, 0.2626, 0.3136 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(132, 190, 201) }
```

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

```
.border{ border-color:rgb(132, 190, 201) }
```

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

Here you see how a box with a 4 pixel `rgb(132, 190, 201)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(132, 190, 201); -webkit-box-  
shadow:4px 4px 4px 4px rgb(132, 190, 201);  
box-shadow:4px 4px 4px 4px rgb(132, 190,  
201) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.9495, 0.2626, 0.3136 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 190, 201) }
```

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

```
.background{ background-color: rgb(132,  
190, 201) }
```

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