

# Converting Colors

$Y_{xy}(45.4325, 0.2735, 0.3367)$

Have a look what the booklet for  
Yxy(45.4325, 0.2735, 0.3367)  
contains.

<b>Yxy(45.3162, 0.2732, 0.3360)</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(45.3162, 0.2732, 0.3360)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85BEB9
RGB	133, 190, 185
RGB Percent	52%, 75%, 73%
CMY	0.4783, 0.2549, 0.2745
CMYK	0.30, 0.00, 0.03, 0.25
HSL	175°, 30%, 63%
HSV	175°, 30%, 75%
XYZ	36.8464, 45.3162, 52.7071
YIQ	172.3870, -32.3670, -13.6390

# Conversions

## Conversions Part 2

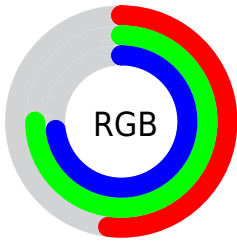
<b>Format</b>	<b>Color</b>
<b>RYB</b>	133, 163, 190
Decimal	8765113
CIELab	73.10, -19.47, -3.42
CIElCh	73, 19.771, 189.950
Yxy	45.3162, 0.2732, 0.3360
Android (android.graphics.Color)	4286955193 (0xFF85BEB9)
YUV	172.3870, 6.2182, -34.5424
Hunter-Lab	67.3173, -20.1026, 0.7002

# Details

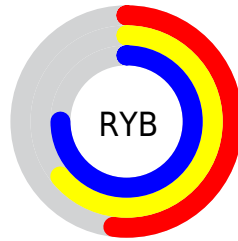
The Yxy color **45.3162, 0.2732, 0.3360** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **29.5643, 0.3730, 0.3223**, and the grayscale version is **41.4448, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.9538, 0.2804, 0.3344**, and **21.0236, 0.2622, 0.3369** is the 20% darker color. If you saturate the color by 10%, you get **43.8386, 0.2622, 0.3387**, and if you desaturate by 10%, it is **47.0780, 0.2855, 0.3335**.

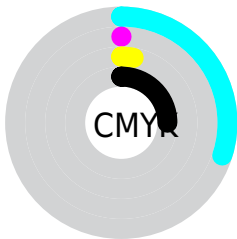
# Distribution



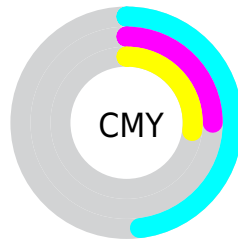
- Red (52%)
- Green (75%)
- Blue (73%)



- Red (52%)
- Yellow (64%)
- Blue (75%)



- Cyan (30%)
- Magenta (0%)
- Yellow (3%)
- Black (25%)




- Cyan (48%)
- Magenta (25%)
- Yellow (27%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.3162, 0.2732, 0.3360 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 45.3162, 0.2732, 0.3360 by changing the saturation by 10% instead.





 45.3162, 0.2732,  
0.3360

 45.3162, 0.2732,  
0.3360

368.0527, 0.2929,  
0.3327

 31.7066, 0.2683,  
0.3368


 83.1947, 0.2803,  
0.3348

 21.1375, 0.2620,  
0.3377


 108.2323, 0.2830,  
0.3344

 13.2245, 0.2537,  
0.3389

 137.8481, 0.2853,  
0.3340

 7.5833, 0.2422,  
0.3404

172.4264, 0.2872,  
0.3337

 3.8295, 0.2252,  
0.3424

212.3516, 0.2889,  
0.3334

 1.5787, 0.1976,  
0.3449

258.0081, 0.2904,

 0.3431, 0.0000,

0.3331

0.3591

309.7804, 0.2917,  
0.3329

0.0000, 0.0000,  
0.0000

45.3162, 0.2732,  
0.3360

45.3162, 0.2732,  
0.3360

43.8386, 0.2622,  
0.3387

47.0780, 0.2855,  
0.3335

42.6247, 0.2527,  
0.3415

49.1324, 0.2987,  
0.3311

41.6597, 0.2450,  
0.3444


51.4944, 0.3127,  
0.3290

40.9254, 0.2391,  
0.3474

54.1762, 0.3272,  
0.3271


40.4007, 0.2352,  
0.3503

57.1893, 0.3418,  
0.3253

 40.0610, 0.2330,  
0.3533

 60.5448, 0.3564,  
0.3238

 39.8574, 0.2323,  
0.3562

 62.1020, 0.3616,  
0.3222

 39.8572, 0.2323,  
0.3562

 62.1786, 0.3602,  
0.3205

 62.2560, 0.3588,  
0.3188

# Harmonies

## Analogous

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



45.3162, 0.2957, 0.3610



45.3162, 0.2732, 0.3360



45.3162, 0.2613, 0.3102

# Triad

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



45.3162, 0.2732, 0.3360



45.3162, 0.3001, 0.2864



45.3162, 0.3654, 0.3648

# Complementary

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



45.3162, 0.2732, 0.3360



29.5643, 0.3730, 0.3223

# 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.



45.3162, 0.3671, 0.3439



45.3162, 0.2732, 0.3360



45.3162, 0.3284, 0.2999

# Square

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



45.3162, 0.2732, 0.3360



45.3162, 0.2762, 0.2830



45.3162, 0.3533, 0.3205



45.3162, 0.3491, 0.3773



# Rectangle

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



45.3162, 0.2732, 0.3360



45.3162, 0.2605, 0.2964



45.3162, 0.3533, 0.3205



45.3162, 0.3677, 0.3584

# Sweetspot

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



45.3180, 0.2732, 0.3360



89.3746, 0.2999, 0.3310



43.9856, 0.3132, 0.4143



19.4962, 0.2979, 0.3313



97.7402, 0.3127, 0.3290



20.4902, 0.3127, 0.3290



# Same Dimension

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



45.3180, 0.2732, 0.3360



80.3002, 0.2658, 0.3378



36.4204, 0.2663, 0.2955



10.7947, 0.2996, 0.3310



26.5091, 0.2322, 0.3558



1.0427, 0.2302, 0.3488



# Inverse Universe

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



29.5643, 0.3730, 0.3223



47.1525, 0.3922, 0.3208



36.3558, 0.3698, 0.3602



9.5496, 0.3275, 0.3270



7.3106, 0.6288, 0.3237

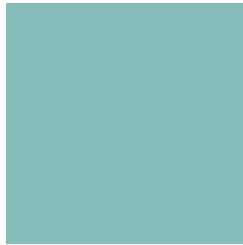


0.2910, 0.5902, 0.3025



# Previews

## White Background



This preview shows how the Yxy color 45.3162, 0.2732, 0.3360 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

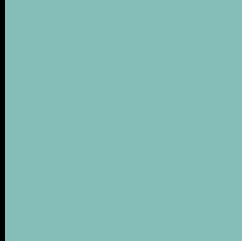
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.3162, 0.2732, 0.3360 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

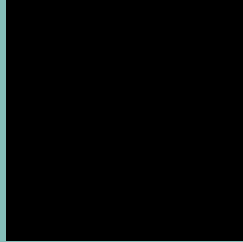
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

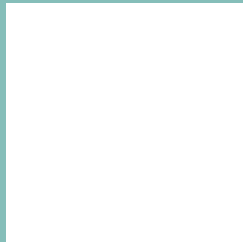
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.3162, 0.2732, 0.3360**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.3162, 0.2732, 0.3360.



This preview shows how white text looks on a background with the Yxy color 45.3162, 0.2732, 0.3360.

# 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

45.3162, 0.2732, 0.3360

### Protanopia

45.0002, 0.3162, 0.3290

### Deuteranopia

45.1094, 0.3171, 0.3113



## Tritanopia

45.1233, 0.2646, 0.3082

# Trichromacy



## Original Color

45.3162, 0.2732, 0.3360

## Protanomaly

44.6846, 0.2985, 0.3303

## Deuteranomaly

44.8883, 0.2997, 0.3196

## Tritanomaly

45.1862, 0.2679, 0.3177

# Monochromacy



## Original Color

45.3162, 0.2732, 0.3360

## Achromatopsia

41.2543, 0.3127, 0.3290

## Achromatomaly

42.6836, 0.2966, 0.3317

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.3162, 0.2732, 0.3360 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(133, 190, 185)` looks like.

```
.text, #text, p{  
    color:rgb(133, 190, 185)  
}
```

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(133, 190, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 190, 185) }
```

## Border

The CSS property to change the border of an element to Yxy 45.3162, 0.2732, 0.3360 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(133, 190, 185) }
```

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

```
.border{ border-color:rgb(133, 190, 185) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 190, 185)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 190, 185); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 190, 185);  
box-shadow:4px 4px 4px 4px rgb(133, 190,  
185) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.3162, 0.2732, 0.3360 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 190, 185) }
```

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

```
.background{ background-color: rgb(133,  
190, 185) }
```

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