

# Converting Colors

$Y_{xy}(45.8766, 0.2420, 0.3632)$

Have a look what the booklet for  
Yxy(45.8766, 0.2420, 0.3632)  
contains.

<b>Yxy(45.8122, 0.2420, 0.3629)</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(45.8122, 0.2420, 0.3629)**

# Conversions

## Conversions Part 1

Format	Color
Hex	36C9B3
RGB	54, 201, 179
RGB Percent	21%, 79%, 70%
CMY	0.7876, 0.2118, 0.2981
CMYK	0.73, 0.00, 0.11, 0.21
HSL	171°, 58%, 50%
HSV	171°, 73%, 79%
XYZ	30.5499, 45.8122, 49.8771
YIQ	154.5390, -80.5500, -38.0060

# Conversions

## Conversions Part 2

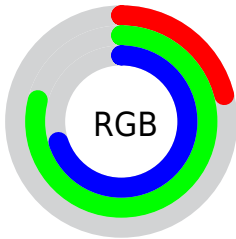
<b>Format</b>	<b>Color</b>
<b>RYB</b>	54, 133, 201
Decimal	3590579
CIELab	73.42, -42.95, 0.00
CIElCh	73, 42.946, 179.994
Yxy	45.8122, 0.2420, 0.3629
Android (android.graphics.Color)	4281780659 (0xFF36C9B3)
YUV	154.5390, 12.0593, -88.1727
Hunter-Lab	67.6847, -37.8812, 3.6883

# Details

The Yxy color **45.8122, 0.2420, 0.3629** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle muted spring green. A complement of this color would be **15.5932, 0.5262, 0.3071**, and the grayscale version is **32.5558, 0.3127, 0.3290**.

A 20% lighter version of the original color is **81.6557, 0.2537, 0.3524**, and **22.0641, 0.2366, 0.3717** is the 20% darker color. If you saturate the color by 10%, you get **45.2459, 0.2391, 0.3682**, and if you desaturate by 10%, it is **46.6145, 0.2468, 0.3576**.

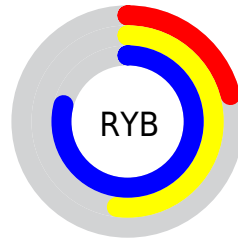
# Distribution



Red (21%)

Green (79%)

Blue (70%)



Red (21%)

Yellow (52%)

Blue (79%)

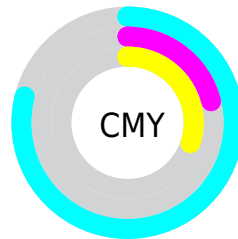


Cyan (73%)

Magenta (0%)

Yellow (11%)

Black (21%)



Cyan (79%)

Magenta (21%)


Yellow (30%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.8122, 0.2420, 0.3629 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 45.8122, 0.2420, 0.3629 by changing the saturation by 10% instead.





 45.8122, 0.2420,  
0.3629


 45.8122, 0.2420,  
0.3629


370.0531, 0.2771,  
0.3461


 32.0976, 0.2334,  
0.3670


 83.9379, 0.2547,  
0.3568

 21.4361, 0.2223,  
0.3723


 109.1178, 0.2595,  
0.3545

 13.4431, 0.2079,  
0.3793


 138.8883, 0.2635,  
0.3526

 7.7344, 0.1880,  
0.3887

 173.6337, 0.2670,  
0.3509

 3.9255, 0.1596,  
0.4024

 213.7385, 0.2700,  
0.3495

 1.6320, 0.0965,  
0.4326

259.5871, 0.2727,

 0.3790, 0.0000,

0.3482

0.4789

311.5638, 0.2750,  
0.3471

■ 0.0000, 0.0000,  
0.0000

■ 45.8122, 0.2420,  
0.3629

■ 45.8122, 0.2420,  
0.3629

■ 45.2459, 0.2391,  
0.3682

■ 46.6145, 0.2468,  
0.3576

■ 44.8801, 0.2381,  
0.3735

■ 47.6728, 0.2535,  
0.3524

■ 44.7068, 0.2381,  
0.3771

■ 49.0108, 0.2620,  
0.3474

■ 50.6480, 0.2720,  
0.3426

■ 52.6023, 0.2833,  
0.3381

■ 54.8900, 0.2956,  
0.3339

■ 57.5265, 0.3086,  
0.3301

■ 60.5260, 0.3221,  
0.3266

■ 63.9021, 0.3358,  
0.3235

# Harmonies

## Analogous

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



45.8122, 0.2927, 0.4175



45.8122, 0.2420, 0.3629



45.8122, 0.2117, 0.3020

# Triad

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



45.8122, 0.2420, 0.3629



45.8122, 0.2662, 0.2381



45.8122, 0.4311, 0.3855

# Complementary

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



45.8122, 0.2420, 0.3629



15.5932, 0.5262, 0.3071

# 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.



45.8122, 0.4251, 0.3393



45.8122, 0.2420, 0.3629



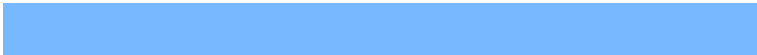
45.8122, 0.3243, 0.2589

# Square

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



45.8122, 0.2420, 0.3629



45.8122, 0.2249, 0.2366



45.8122, 0.3845, 0.2947



45.8122, 0.4029, 0.4238



# Rectangle

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



45.8122, 0.2420, 0.3629



45.8122, 0.2052, 0.2699



45.8122, 0.3845, 0.2947



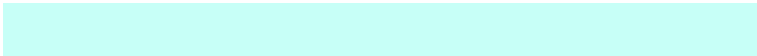
45.8122, 0.4333, 0.3704

# Sweetspot

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



45.8140, 0.2420, 0.3629



90.3389, 0.2842, 0.3378



43.5826, 0.3117, 0.5534



19.1249, 0.2810, 0.3390



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.



45.8140, 0.2420, 0.3629



77.0459, 0.2383, 0.3715



26.6905, 0.2106, 0.2453



12.0392, 0.3003, 0.3325



28.1222, 0.2379, 0.3764



1.3392, 0.2348, 0.3654



# Inverse Universe

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



15.5932, 0.5262, 0.3071



22.5919, 0.5904, 0.3127



22.8995, 0.5051, 0.3874



10.6624, 0.3266, 0.3256



7.8755, 0.6177, 0.3177

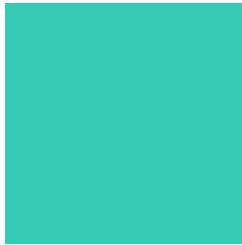


0.3814, 0.5673, 0.2899



# Previews

## White Background



This preview shows how the Yxy color 45.8122, 0.2420, 0.3629 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

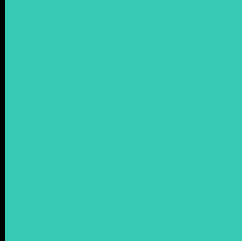
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.8122, 0.2420, 0.3629 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

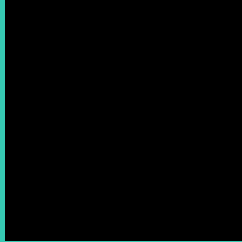
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

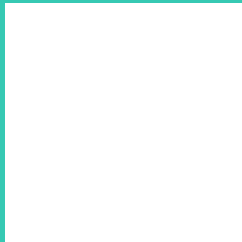
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.8122, 0.2420, 0.3629**

## **Background**



This preview shows how black text looks on a background with the Yxy color 45.8122, 0.2420, 0.3629.

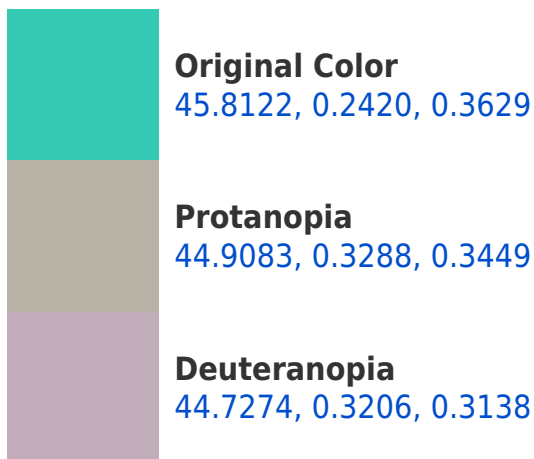


This preview shows how white text looks on a background with the Yxy color 45.8122, 0.2420, 0.3629.

# 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





## Tritanopia

45.6498, 0.2302, 0.3057

# Trichromacy



## Original Color

45.8122, 0.2420, 0.3629



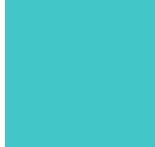
## Protanomaly

43.3765, 0.2849, 0.3508



## Deuteranomaly

43.1255, 0.2807, 0.3289



## Tritanomaly

45.7165, 0.2342, 0.3258

# Monochromacy



## Original Color

45.8122, 0.2420, 0.3629



## Achromatopsia

32.7778, 0.3127, 0.3290



## Achromatomaly

36.0369, 0.2741, 0.3415

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.8122, 0.2420, 0.3629 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(54, 201, 179)` looks like.

```
.text, #text, p{  
    color:rgb(54, 201, 179)  
}
```

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(54, 201, 179) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(54, 201, 179) }
```

## Border

The CSS property to change the border of an element to Yxy 45.8122, 0.2420, 0.3629 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(54, 201, 179) }
```

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

```
.border{ border-color:rgb(54, 201, 179) }
```

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

Here you see how a box with a 4 pixel `rgb(54, 201, 179)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(54, 201, 179); -webkit-box-  
shadow:4px 4px 4px 4px rgb(54, 201, 179);  
box-shadow:4px 4px 4px 4px rgb(54, 201,  
179) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.8122, 0.2420, 0.3629 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(54, 201, 179) }
```

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

```
.background{ background-color: rgb(54, 201,  
179) }
```

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