

# Converting Colors

$Y_{xy}(45.7873, 0.2276, 0.3212)$

Have a look what the booklet for  
Yxy(45.7873, 0.2276, 0.3212)  
contains.

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# Color

**Yxy(45.7873, 0.2277, 0.3213)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2EC7CC
RGB	46, 199, 204
RGB Percent	18%, 78%, 80%
CMY	0.8199, 0.2196, 0.1999
CMYK	0.77, 0.02, 0.00, 0.20
HSL	182°, 63%, 49%
HSV	182°, 77%, 80%
XYZ	32.4487, 45.7873, 64.2704
YIQ	153.8230, -92.7930, -30.8810

# Conversions

## Conversions Part 2

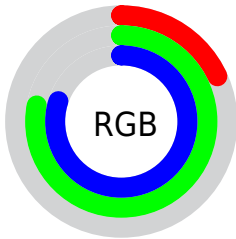
Format	Color
<b>RYB</b>	46, 124, 204
Decimal	3065804
CIELab	73.41, -35.92, -13.62
CIELCh	73, 38.418, 200.763
Yxy	45.7873, 0.2277, 0.3213
Android (android.graphics.Color)	4281255884 (0xFF2EC7CC)
YUV	153.8230, 24.7373, -94.5608
Hunter-Lab	67.6663, -32.8182, -8.9480

# Details

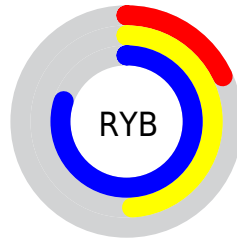
The Yxy color **45.7873, 0.2277, 0.3213** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle muted cyan. A complement of this color would be **15.4008, 0.5762, 0.3338**, and the grayscale version is **32.1452, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.7331, 0.2446, 0.3288**, and **22.1485, 0.2213, 0.3167** is the 20% darker color. If you saturate the color by 10%, you get **45.1257, 0.2242, 0.3203**, and if you desaturate by 10%, it is **46.6785, 0.2330, 0.3224**.

# Distribution



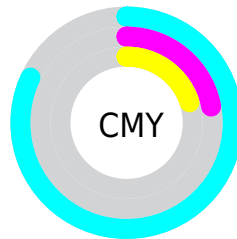
- Red (18%)
- Green (78%)
- Blue (80%)



- Red (18%)
- Yellow (49%)
- Blue (80%)



- Cyan (77%)
- Magenta (2%)
- Yellow (0%)
- Black (20%)




- Cyan (82%)
- Magenta (22%)
- Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 45.7873, 0.2277, 0.3213 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 45.7873, 0.2277, 0.3213 by changing the saturation by 10% instead.





 45.7873, 0.2277,  
0.3213

 45.7873, 0.2277,  
0.3213


369.9529, 0.2690,  
0.3265

 32.0780, 0.2178,  
0.3196


 83.9006, 0.2424,  
0.3235

 21.4211, 0.2054,  
0.3173


 109.0734, 0.2480,  
0.3242


 13.4322, 0.1895,  
0.3137

 138.8361, 0.2528,  
0.3248

 7.7268, 0.1683,  
0.3082

 173.5732, 0.2569,  
0.3252

 3.9206, 0.1391,  
0.2985

 213.6690, 0.2605,  
0.3256

 1.6293, 0.0923,  
0.2816

259.5080, 0.2637,

 0.3772, 0.0000,

0.3260

0.2099

311.4745, 0.2665,  
0.3262

■ 0.0000, 0.0000,  
0.0000

■ 45.7873, 0.2277,  
0.3213

■ 45.7873, 0.2277,  
0.3213

■ 45.1257, 0.2242,  
0.3203

■ 46.6785, 0.2330,  
0.3224

■ 44.6490, 0.2223,  
0.3192

■ 47.8222, 0.2403,  
0.3234

■ 44.5418, 0.2219,  
0.3190

■ 49.2444, 0.2495,  
0.3245

■ 50.9663, 0.2604,  
0.3255

■ 53.0072, 0.2728,  
0.3265

■ 55.3846, 0.2865,  
0.3275

■ 58.1149, 0.3012,  
0.3284

■ 61.2133, 0.3166,  
0.3292

■ 64.6942, 0.3324,  
0.3300

# Harmonies

## Analogous

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



45.7873, 0.2619, 0.3760



45.7873, 0.2277, 0.3213



45.7873, 0.2153, 0.2754

# Triad

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



45.7873, 0.2277, 0.3213



45.7873, 0.3064, 0.2579



45.7873, 0.4046, 0.4059

# Complementary

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



45.7873, 0.2277, 0.3213



15.4008, 0.5762, 0.3338

# 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.



45.7873, 0.4207, 0.3685



45.7873, 0.2277, 0.3213



45.7873, 0.3615, 0.2870

# Square

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



45.7873, 0.2277, 0.3213



45.7873, 0.2575, 0.2441



45.7873, 0.4049, 0.3261



45.7873, 0.3639, 0.4265



# Rectangle

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



45.7873, 0.2277, 0.3213



45.7873, 0.2198, 0.2556



45.7873, 0.4049, 0.3261



45.7873, 0.4133, 0.3946

# Sweetspot

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



45.7890, 0.2277, 0.3213



89.3398, 0.2784, 0.3269



43.9956, 0.3007, 0.5685



18.8259, 0.2735, 0.3266



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.



45.7890, 0.2277, 0.3213



74.1546, 0.2228, 0.3196



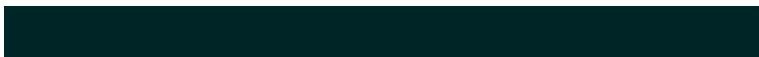
18.9428, 0.1946, 0.1938



12.6635, 0.2984, 0.3282



28.0541, 0.2220, 0.3191



1.4669, 0.2225, 0.3211



# Inverse Universe

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



18.9130, 0.3264, 0.1706



28.4320, 0.3285, 0.1601



28.3748, 0.4881, 0.4188



11.3974, 0.3143, 0.3069



10.6351, 0.3289, 0.1586

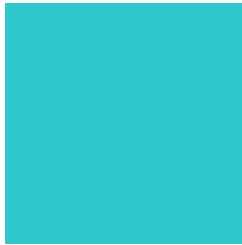


0.5506, 0.3273, 0.1576



# Previews

## White Background



This preview shows how the Yxy color 45.7873, 0.2277, 0.3213 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

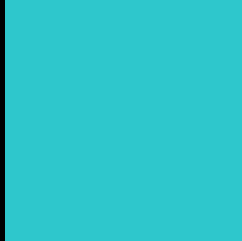
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 45.7873, 0.2277, 0.3213 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

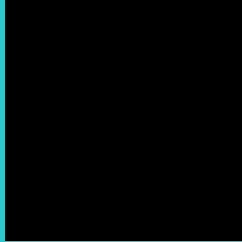
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

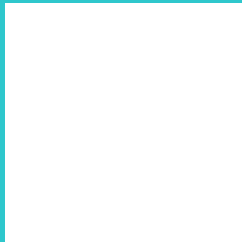
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 45.7873, 0.2277, 0.3213**

## Background



This preview shows how black text looks on a background with the Yxy color 45.7873, 0.2277, 0.3213.

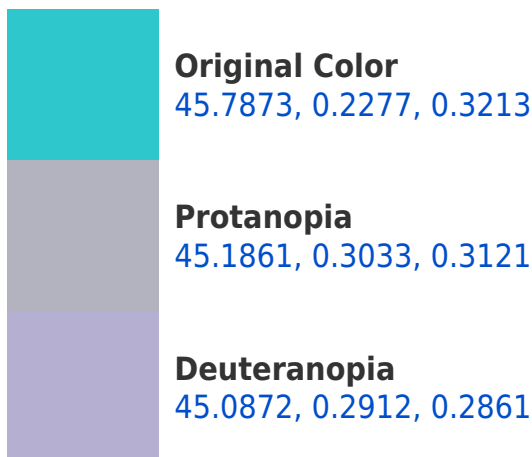


This preview shows how white text looks on a background with the Yxy color 45.7873, 0.2277, 0.3213.

# 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

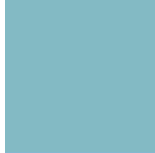
46.0275, 0.2248, 0.3056

# Trichromacy



## Original Color

45.7873, 0.2277, 0.3213



## Protanomaly

43.9286, 0.2643, 0.3147



## Deuteranomaly

43.6915, 0.2578, 0.2971



## Tritanomaly

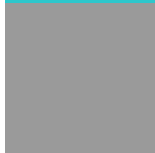
45.7451, 0.2258, 0.3112

# Monochromacy



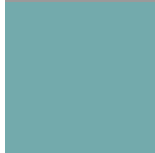
## Original Color

45.7873, 0.2277, 0.3213



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

35.3728, 0.2660, 0.3257

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 45.7873, 0.2277, 0.3213 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(46, 199, 204)` looks like.

```
.text, #text, p{  
    color:rgb(46, 199, 204)  
}
```

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(46, 199, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 199, 204) }
```

## Border

The CSS property to change the border of an element to Yxy 45.7873, 0.2277, 0.3213 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(46, 199, 204) }
```

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

```
.border{ border-color:rgb(46, 199, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 199, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 199, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 199, 204);  
box-shadow:4px 4px 4px 4px rgb(46, 199,  
204) }
```



# Background

The CSS property to change the background color of an element to Yxy 45.7873, 0.2277, 0.3213 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 199, 204) }
```

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

```
.background{ background-color: rgb(46, 199,  
204) }
```

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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