

# Converting Colors

$Yxy(47.6045, 0.2297, 0.3288)$

Have a look what the booklet for  
Yxy(47.6045, 0.2297, 0.3288)  
contains.

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# Color

**Yxy(47.6045, 0.2297, 0.3288)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2ECBCB
RGB	46, 203, 203
RGB Percent	18%, 80%, 80%
CMY	0.8200, 0.2039, 0.2040
CMYK	0.77, 0.00, 0.00, 0.20
HSL	180°, 63%, 49%
HSV	180°, 77%, 80%
XYZ	33.2566, 47.6045, 63.9215
YIQ	156.0570, -93.5720, -33.2840

# Conversions

## Conversions Part 2

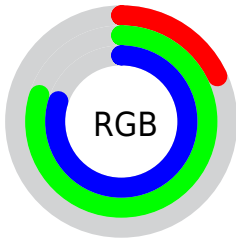
Format	Color
R <sub>Y</sub> B	46, 125, 203
Decimal	3066827
CIE Lab	74.57, -38.08, -11.30
CIE LCh	75, 39.720, 196.532
Yxy	47.6045, 0.2297, 0.3288
Android (android.graphics.Color)	4281256907 (0xFF2ECBCB)
YUV	156.0570, 23.1429, -96.5200
Hunter-Lab	68.9960, -34.7048, -6.6321

# Details

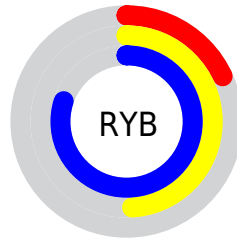
The Yxy color **47.6045, 0.2297, 0.3288** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle muted cyan. A complement of this color would be **14.8417, 0.5798, 0.3298**, and the grayscale version is **33.1874, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.7331, 0.2446, 0.3288**, and **23.3497, 0.2241, 0.3267** is the 20% darker color. If you saturate the color by 10%, you get **47.2418, 0.2266, 0.3288**, and if you desaturate by 10%, it is **48.1933, 0.2347, 0.3288**.

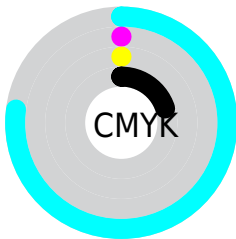
# Distribution



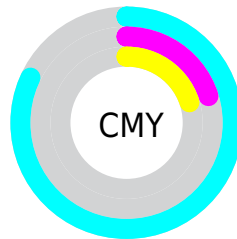
- Red (18%)
- Green (80%)
- Blue (80%)



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



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




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

# Brightness & Saturation Gradients

These gradients show how the Yxy color 47.6045, 0.2297, 0.3288 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 47.6045, 0.2297, 0.3288 by changing the saturation by 10% instead.





 47.6045, 0.2297,  
0.3288

 47.6045, 0.2297,  
0.3288


377.2223, 0.2699,  
0.3301

 33.5138, 0.2201,  
0.3281


 86.6153, 0.2440,  
0.3295


 22.5203, 0.2081,  
0.3270


 112.3041, 0.2494,  
0.3297

 14.2397, 0.1927,  
0.3253


 142.6277, 0.2541,  
0.3299

 8.2876, 0.1722,  
0.3222

 177.9706, 0.2581,  
0.3300

 4.2795, 0.1439,  
0.3163

 218.7171, 0.2616,  
0.3300

 1.8311, 0.1006,  
0.3049

265.2517, 0.2647,

 0.5065, 0.0000,

0.3301

0.2666

317.9586, 0.2675,  
0.3301

0.0000, 0.0000,  
0.0000

47.6045, 0.2297,  
0.3288

47.6045, 0.2297,  
0.3288

47.2418, 0.2266,  
0.3288

48.1933, 0.2347,  
0.3288

47.0614, 0.2250,  
0.3288

49.0307, 0.2416,  
0.3288

47.0271, 0.2247,  
0.3288

50.1423, 0.2504,  
0.3288

51.5491, 0.2610,  
0.3289

53.2700, 0.2732,  
0.3289

■ 55.3224, 0.2867,  
0.3289

■ 57.7225, 0.3014,  
0.3290

■ 60.4852, 0.3168,  
0.3290

■ 63.6248, 0.3327,  
0.3291

# Harmonies

## Analogous

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



47.6045, 0.2672, 0.3843



47.6045, 0.2297, 0.3288



47.6045, 0.2139, 0.2798

# Triad

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



47.6045, 0.2297, 0.3288



47.6045, 0.2985, 0.2536



47.6045, 0.4105, 0.4026

# Complementary

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



47.6045, 0.2297, 0.3288



14.8417, 0.5798, 0.3298

# 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.



47.6045, 0.4227, 0.3630



47.6045, 0.2297, 0.3288



47.6045, 0.3548, 0.2813

# Square

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



47.6045, 0.2297, 0.3288



47.6045, 0.2507, 0.2421



47.6045, 0.4020, 0.3199



47.6045, 0.3718, 0.4272



# Rectangle

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



47.6045, 0.2297, 0.3288



47.6045, 0.2163, 0.2576



47.6045, 0.4020, 0.3199



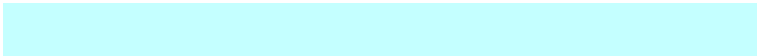
47.6045, 0.4180, 0.3904

# Sweetspot

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



47.6063, 0.2297, 0.3288



90.5220, 0.2786, 0.3289



43.5546, 0.3022, 0.5700



19.1184, 0.2737, 0.3289



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.



47.6063, 0.2297, 0.3288



78.8641, 0.2253, 0.3288



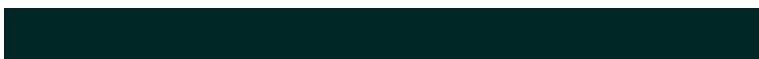
20.0901, 0.1971, 0.2030



12.7270, 0.2984, 0.3290



29.9244, 0.2247, 0.3288



1.5438, 0.2247, 0.3288



# Inverse Universe

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



14.8417, 0.5798, 0.3298



21.7311, 0.6310, 0.3299



26.7748, 0.4941, 0.4126



11.2137, 0.3290, 0.3290



8.0801, 0.6401, 0.3300

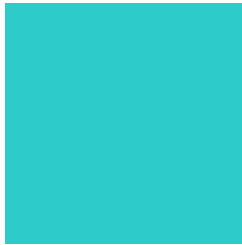


0.4169, 0.6400, 0.3299



# Previews

## White Background



This preview shows how the Yxy color 47.6045, 0.2297, 0.3288 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

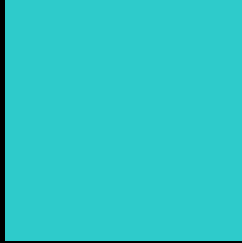
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 47.6045, 0.2297, 0.3288 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

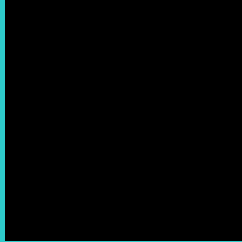
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

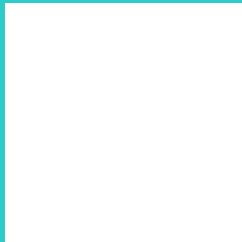
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 47.6045, 0.2297, 0.3288**

## Background



This preview shows how black text looks on a background with the Yxy color 47.6045, 0.2297, 0.3288.

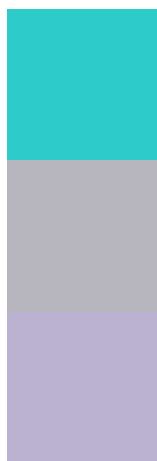


This preview shows how white text looks on a background with the Yxy color 47.6045, 0.2297, 0.3288.

# 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

47.6045, 0.2297, 0.3288

### Protanopia

46.7891, 0.3081, 0.3187

### Deuteranopia

46.6125, 0.2962, 0.2893



## Tritanopia

47.6529, 0.2254, 0.3060

# Trichromacy



## Original Color

47.6045, 0.2297, 0.3288



## Protanomaly

45.2768, 0.2673, 0.3218



## Deuteranomaly

44.8570, 0.2608, 0.3001



## Tritanomaly

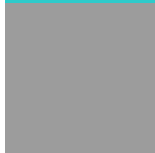
47.7514, 0.2269, 0.3143

# Monochromacy



## Original Color

47.6045, 0.2297, 0.3288



## Achromatopsia

33.2452, 0.3127, 0.3290



## Achromatomaly

36.6173, 0.2666, 0.3289

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 47.6045, 0.2297, 0.3288 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, 203, 203)` looks like.

```
.text, #text, p{  
    color:rgb(46, 203, 203)  
}
```

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, 203, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 203, 203) }
```

## Border

The CSS property to change the border of an element to Yxy 47.6045, 0.2297, 0.3288 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, 203, 203) }
```

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

```
.border{ border-color:rgb(46, 203, 203) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 203, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 203, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 203, 203);  
box-shadow:4px 4px 4px 4px rgb(46, 203,  
203) }
```



# Background

The CSS property to change the background color of an element to Yxy 47.6045, 0.2297, 0.3288 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 203, 203) }
```

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

```
.background{ background-color: rgb(46, 203,  
203) }
```

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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