

# Converting Colors

$Y_{xy}(49.0012, 0.2370, 0.3288)$

Have a look what the booklet for  
Yxy(49.0012, 0.2370, 0.3288)  
contains.

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# Color

**Yxy(49.0012, 0.2370, 0.3288)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4ACCCC
RGB	74, 204, 204
RGB Percent	29%, 80%, 80%
CMY	0.7093, 0.2000, 0.2001
CMYK	0.64, 0.00, 0.00, 0.20
HSL	180°, 56%, 55%
HSV	180°, 64%, 80%
XYZ	35.3202, 49.0012, 64.7090
YIQ	165.1300, -77.4800, -27.5600

# Conversions

## Conversions Part 2

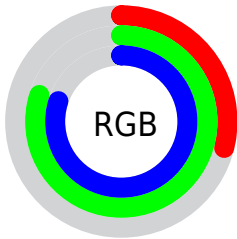
Format	Color
<a href="#">RYB</a>	<a href="#">74, 139, 204</a>
Decimal	<a href="#">4902092</a>
CIELab	<a href="#">75.45, -34.72, -10.47</a>
CIELCh	<a href="#">75, 36.264, 196.789</a>
Yxy	<a href="#">49.0012, 0.2370, 0.3288</a>
Android (android.graphics.Color)	<a href="#">4283092172 (0xFF4ACCCC)</a>
YUV	<a href="#">165.1300, 19.1629, -79.9210</a>
Hunter-Lab	<a href="#">70.0009, -32.4361, -5.8073</a>

# Details

The Yxy color **49.0012, 0.2370, 0.3288** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **18.2466, 0.5166, 0.3296**, and the grayscale version is **37.6419, 0.3127, 0.3290**.

A 20% lighter version of the original color is **84.1433, 0.2512, 0.3288**, and **23.6969, 0.2241, 0.3268** is the 20% darker color. If you saturate the color by 10%, you get **48.3189, 0.2313, 0.3288**, and if you desaturate by 10%, it is **49.9498, 0.2446, 0.3288**.

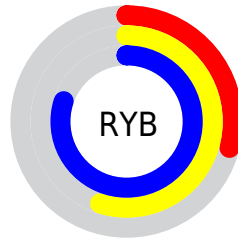
# Distribution



Red (29%)

Green (80%)

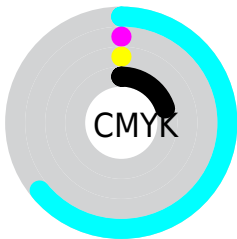
Blue (80%)



Red (29%)

Yellow (55%)

Blue (80%)

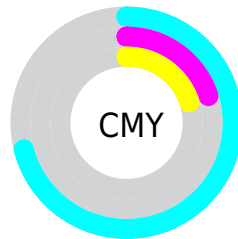


Cyan (64%)

Magenta (0%)

Yellow (0%)

Black (20%)



Cyan (71%)

Magenta (20%)

Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.0012, 0.2370, 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 49.0012, 0.2370, 0.3288 by changing the saturation by 10% instead.




 49.0012, 0.2370,  
0.3288


 49.0012, 0.2370,  
0.3288


382.7470, 0.2736,  
0.3299


 34.6204, 0.2283,  
0.3282


 88.6932, 0.2500,  
0.3294


 23.3706, 0.2173,  
0.3274


 114.7733, 0.2550,  
0.3296

 14.8674, 0.2032,  
0.3259


 145.5219, 0.2592,  
0.3297

 8.7264, 0.1844,  
0.3234

 181.3235, 0.2629,  
0.3298

 4.5632, 0.1584,  
0.3186

222.5624, 0.2661,  
0.3298

 1.9933, 0.1205,  
0.3086

269.6230, 0.2689,

 0.6036, 0.0000,

0.3299

0.2932

322.8898, 0.2714,  
0.3299

0.0000, 0.0000,  
0.0000

49.0012, 0.2370,  
0.3288

49.0012, 0.2370,  
0.3288

48.3189, 0.2313,  
0.3288

49.9498, 0.2446,  
0.3288

47.8708, 0.2275,  
0.3288

51.1821, 0.2541,  
0.3288

47.6270, 0.2254,  
0.3288

52.7202, 0.2653,  
0.3289

47.5420, 0.2247,  
0.3288

54.5828, 0.2781,  
0.3289

56.7869, 0.2921,  
0.3289

■ 59.3485, 0.3070,  
0.3290

■ 62.2823, 0.3227,  
0.3290

■ 65.6025, 0.3387,  
0.3291

■ 68.8037, 0.3527,  
0.3291

# Harmonies

## Analogous

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



49.0012, 0.2714, 0.3783



49.0012, 0.2370, 0.3288



49.0012, 0.2224, 0.2845

# Triad

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



49.0012, 0.2370, 0.3288



49.0012, 0.3005, 0.2602



49.0012, 0.4014, 0.3967

# Complementary

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



49.0012, 0.2370, 0.3288



18.2466, 0.5166, 0.3296

# 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.



49.0012, 0.4122, 0.3611



49.0012, 0.2370, 0.3288



49.0012, 0.3513, 0.2858

# Square

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



49.0012, 0.2370, 0.3288



49.0012, 0.2567, 0.2496



49.0012, 0.3937, 0.3215



49.0012, 0.3664, 0.4179



# Rectangle

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



49.0012, 0.2370, 0.3288



49.0012, 0.2247, 0.2641



49.0012, 0.3937, 0.3215



49.0012, 0.4081, 0.3858

# Sweetspot

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



49.0031, 0.2370, 0.3288



91.9403, 0.2841, 0.3289



45.2280, 0.3042, 0.5325



19.4599, 0.2801, 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.



49.0031, 0.2370, 0.3288



79.7368, 0.2298, 0.3288



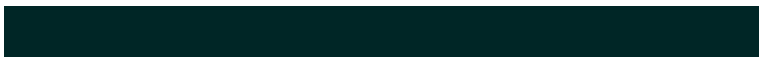
24.9354, 0.2138, 0.2289



12.7270, 0.2984, 0.3290



29.9248, 0.2247, 0.3288



1.5438, 0.2247, 0.3288



# Inverse Universe

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



18.2466, 0.5166, 0.3296



24.9582, 0.5783, 0.3298



31.1938, 0.4558, 0.4054



11.2137, 0.3290, 0.3290



8.0800, 0.6401, 0.3300

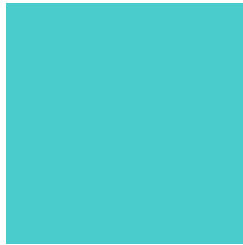


0.4168, 0.6400, 0.3299



# Previews

## White Background



This preview shows how the Yxy color 49.0012, 0.2370, 0.3288 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

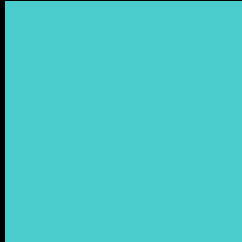
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.0012, 0.2370, 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

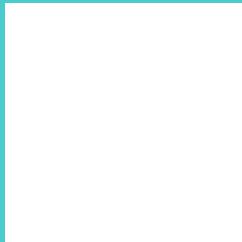
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.0012, 0.2370, 0.3288**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.0012, 0.2370, 0.3288.

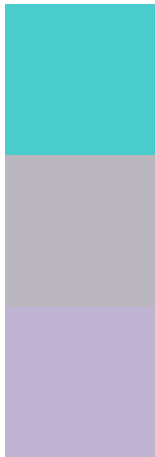


This preview shows how white text looks on a background with the Yxy color 49.0012, 0.2370, 0.3288.

# 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

49.0012, 0.2370, 0.3288

### Protanopia

48.0677, 0.3090, 0.3188

### Deuteranopia

48.3223, 0.2995, 0.2934



## Tritanopia

49.0523, 0.2322, 0.3065

# Trichromacy



## Original Color

49.0012, 0.2370, 0.3288



## Protanomaly

47.2669, 0.2744, 0.3221



## Deuteranomaly

47.1961, 0.2692, 0.3049



## Tritanomaly

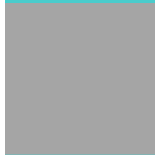
49.1357, 0.2338, 0.3147

# Monochromacy



## Original Color

49.0012, 0.2370, 0.3288



## Achromatopsia

37.6262, 0.3127, 0.3290



## Achromatomaly

40.4004, 0.2749, 0.3289

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.0012, 0.2370, 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(74, 204, 204)` looks like.

```
.text, #text, p{  
    color:rgb(74, 204, 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(74, 204, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(74, 204, 204) }
```

## Border

The CSS property to change the border of an element to Yxy 49.0012, 0.2370, 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(74, 204, 204) }
```

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

```
.border{ border-color:rgb(74, 204, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(74, 204, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(74, 204, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(74, 204, 204);  
box-shadow:4px 4px 4px 4px rgb(74, 204,  
204) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.0012, 0.2370, 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(74, 204, 204) }
```

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

```
.background{ background-color: rgb(74, 204,  
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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