

# Converting Colors

$Y_{xy}(48.5484, 0.2280, 0.3229)$

Have a look what the booklet for  
Yxy(48.5484, 0.2280, 0.3229)  
contains.

<b>Yxy(48.3441, 0.2281, 0.3229)</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(48.3441, 0.2281, 0.3229)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2FCCD0
RGB	47, 204, 208
RGB Percent	18%, 80%, 82%
CMY	0.8159, 0.2000, 0.1842
CMYK	0.77, 0.02, 0.00, 0.18
HSL	181°, 63%, 50%
HSV	181°, 77%, 82%
XYZ	34.1508, 48.3441, 67.2236
YIQ	157.5130, -94.8560, -32.0400

# Conversions

## Conversions Part 2

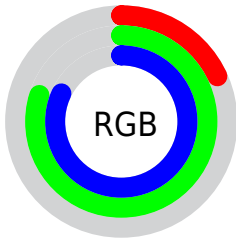
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	47, 126, 208
Decimal	3132624
CIE Lab	75.04, -36.96, -13.33
CIE LCh	75, 39.291, 199.836
Yxy	48.3441, 0.2281, 0.3229
Android (android.graphics.Color)	4281322704 (0xFF2FCCD0)
YUV	157.5130, 24.8901, -96.9199
Hunter-Lab	69.5299, -34.0041, -8.6524

# Details

The Yxy color **48.3441, 0.2281, 0.3229** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light washed cyan. A complement of this color would be **15.9842, 0.5773, 0.3330**, and the grayscale version is **33.8725, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.8049, 0.2450, 0.3288**, and **23.8280, 0.2219, 0.3190** is the 20% darker color. If you saturate the color by 10%, you get **47.7176, 0.2247, 0.3221**, and if you desaturate by 10%, it is **49.2104, 0.2334, 0.3237**.

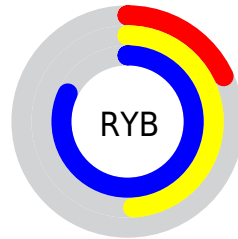
# Distribution



Red (18%)

Green (80%)

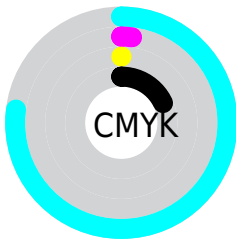
Blue (82%)



Red (18%)

Yellow (49%)

Blue (82%)

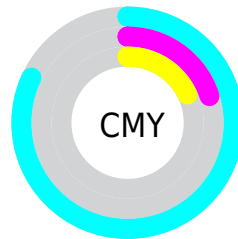


Cyan (77%)

Magenta (2%)

Yellow (0%)

Black (18%)



Cyan (82%)

Magenta (20%)

Yellow (18%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 48.3441, 0.2281, 0.3229 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 48.3441, 0.2281, 0.3229 by changing the saturation by 10% instead.





 48.3441, 0.2281,  
0.3229


 48.3441, 0.2281,  
0.3229


380.1544, 0.2689,  
0.3272


 34.0995, 0.2185,  
0.3215


 87.7165, 0.2425,  
0.3247


 22.9700, 0.2064,  
0.3194


 113.6131, 0.2481,  
0.3254


 14.5714, 0.1909,  
0.3164


 144.1624, 0.2528,  
0.3258

 8.5191, 0.1705,  
0.3115

 179.7489, 0.2569,  
0.3262

 4.4289, 0.1427,  
0.3032

 220.7570, 0.2605,  
0.3265

 1.9162, 0.1021,  
0.2876

267.5710, 0.2636,

 0.5581, 0.0000,

0.3268

0.2514

320.5753, 0.2664,  
0.3270

0.0000, 0.0000,  
0.0000

48.3441, 0.2281,  
0.3229

48.3441, 0.2281,  
0.3229

47.7176, 0.2247,  
0.3221

49.2104, 0.2334,  
0.3237

47.2846, 0.2229,  
0.3213

50.3406, 0.2406,  
0.3246

47.1871, 0.2225,  
0.3211

51.7618, 0.2496,  
0.3254

53.4964, 0.2605,  
0.3262

55.5646, 0.2729,  
0.3270

■ 57.9847, 0.2866,  
0.3278

■ 60.7739, 0.3013,  
0.3285

■ 63.9481, 0.3167,  
0.3292

■ 67.5225, 0.3326,  
0.3298

# Harmonies

## Analogous

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



48.3441, 0.2630, 0.3778



48.3441, 0.2281, 0.3229



48.3441, 0.2150, 0.2763

# Triad

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



48.3441, 0.2281, 0.3229



48.3441, 0.3047, 0.2570



48.3441, 0.4059, 0.4052

# Complementary

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



48.3441, 0.2281, 0.3229



15.9842, 0.5773, 0.3330

# 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.



48.3441, 0.4212, 0.3673



48.3441, 0.2281, 0.3229



48.3441, 0.3601, 0.2857

# Square

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



48.3441, 0.2281, 0.3229



48.3441, 0.2560, 0.2437



48.3441, 0.4043, 0.3247



48.3441, 0.3656, 0.4267



# Rectangle

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



48.3441, 0.2281, 0.3229



48.3441, 0.2190, 0.2560



48.3441, 0.4043, 0.3247



48.3441, 0.4143, 0.3937

# Sweetspot

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



48.3459, 0.2281, 0.3229



89.5912, 0.2784, 0.3274



45.9560, 0.3007, 0.5686



18.8880, 0.2735, 0.3271



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.



48.3459, 0.2281, 0.3229



75.1440, 0.2233, 0.3215



19.7762, 0.1946, 0.1937



13.3543, 0.2983, 0.3284



29.4230, 0.2226, 0.3212



1.6615, 0.2230, 0.3227



# Inverse Universe

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



19.8027, 0.3251, 0.1697



28.5319, 0.3268, 0.1592



29.6302, 0.4882, 0.4188



12.0037, 0.3142, 0.3067



11.0415, 0.3272, 0.1576

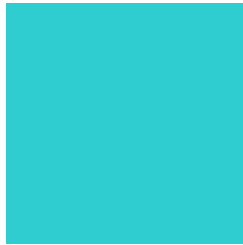


0.6190, 0.3260, 0.1569



# Previews

## White Background



This preview shows how the Yxy color 48.3441, 0.2281, 0.3229 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

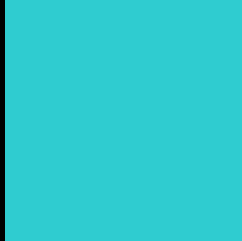
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 48.3441, 0.2281, 0.3229 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

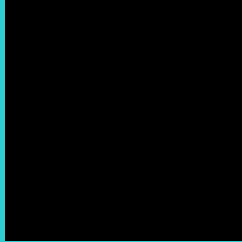
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

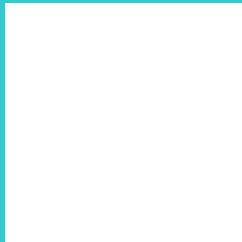
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 48.3441, 0.2281, 0.3229**

## **Background**



This preview shows how black text looks on a background with the Yxy color 48.3441, 0.2281, 0.3229.



This preview shows how white text looks on a background with the Yxy color 48.3441, 0.2281, 0.3229.

# 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

48.3441, 0.2281, 0.3229

### Protanopia

47.4182, 0.3042, 0.3137

### Deuteranopia

47.5343, 0.2917, 0.2859



## Tritanopia

48.1963, 0.2247, 0.3047

# Trichromacy



## Original Color

48.3441, 0.2281, 0.3229



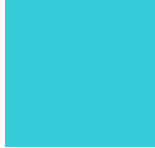
## Protanomaly

46.0188, 0.2651, 0.3164



## Deuteranomaly

45.8708, 0.2575, 0.2964



## Tritanomaly

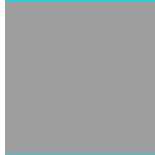
48.3751, 0.2260, 0.3116

# Monochromacy



## Original Color

48.3441, 0.2281, 0.3229



## Achromatopsia

34.1914, 0.3127, 0.3290



## Achromatomaly

37.6461, 0.2664, 0.3273

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 48.3441, 0.2281, 0.3229 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(47, 204, 208)` looks like.

```
.text, #text, p{  
  color:rgb(47, 204, 208)  
}
```

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(47, 204, 208) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 204, 208) }
```

## Border

The CSS property to change the border of an element to Yxy 48.3441, 0.2281, 0.3229 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(47, 204, 208) }
```

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

```
.border{ border-color:rgb(47, 204, 208) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 204, 208)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 204, 208); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 204, 208);  
box-shadow:4px 4px 4px 4px rgb(47, 204,  
208) }
```



# Background

The CSS property to change the background color of an element to Yxy 48.3441, 0.2281, 0.3229 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 204, 208) }
```

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

```
.background{ background-color: rgb(47, 204,  
208) }
```

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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