

# Converting Colors

$Y_{xy}(49.1327, 0.2353, 0.3317)$

Have a look what the booklet for  
Yxy(49.1327, 0.2353, 0.3317)  
contains.

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# Color

**Yxy(49.1327, 0.2353, 0.3317)**

# Conversions

## Conversions Part 1

Format	Color
Hex	42CDCB
RGB	66, 205, 203
RGB Percent	26%, 80%, 80%
CMY	0.7414, 0.1960, 0.2040
CMYK	0.68, 0.00, 0.01, 0.20
HSL	179°, 58%, 53%
HSV	179°, 68%, 80%
XYZ	34.8536, 49.1327, 64.1377
YIQ	163.2110, -82.2020, -30.0900

# Conversions

## Conversions Part 2

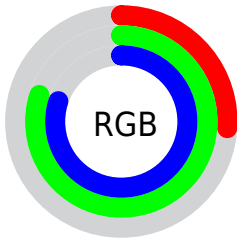
Format	Color
<a href="#">RYB</a>	<a href="#">66, 136, 205</a>
Decimal	<a href="#">4378059</a>
CIELab	<a href="#">75.53, -36.66, -9.84</a>
CIELCh	<a href="#">76, 37.957, 195.021</a>
Yxy	<a href="#">49.1327, 0.2353, 0.3317</a>
Android (android.graphics.Color)	<a href="#">4282568139 (0xFF42CDCB)</a>
YUV	<a href="#">163.2110, 19.6160, -85.2540</a>
Hunter-Lab	<a href="#">70.0947, -33.9093, -5.1849</a>

# Details

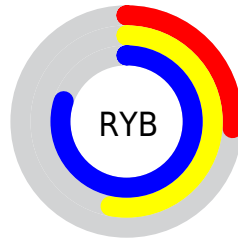
The Yxy color **49.1327, 0.2353, 0.3317** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **17.2885, 0.5337, 0.3276**, and the grayscale version is **36.6600, 0.3127, 0.3290**.

A 20% lighter version of the original color is **83.6455, 0.2489, 0.3288**, and **23.9826, 0.2252, 0.3307** is the 20% darker color. If you saturate the color by 10%, you get **48.5319, 0.2305, 0.3322**, and if you desaturate by 10%, it is **49.9922, 0.2420, 0.3312**.

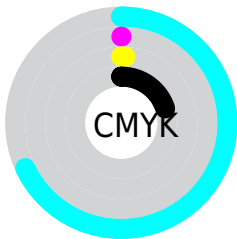
# Distribution



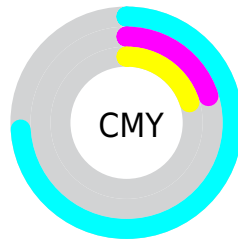
- Red (26%)
- Green (80%)
- Blue (80%)



- Red (26%)
- Yellow (53%)
- Blue (80%)



- Cyan (68%)
- Magenta (0%)
- Yellow (1%)
- Black (20%)




- Cyan (74%)
- Magenta (20%)
- Yellow (20%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.1327, 0.2353, 0.3317 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 49.1327, 0.2353, 0.3317 by changing the saturation by 10% instead.





 49.1327, 0.2353,  
0.3317

 49.1327, 0.2353,  
0.3317


383.2645, 0.2727,  
0.3314

 34.7248, 0.2264,  
0.3315


 88.8885, 0.2486,  
0.3318


 23.4509, 0.2152,  
0.3310


 115.0052, 0.2537,  
0.3318

 14.9268, 0.2008,  
0.3301


 145.7935, 0.2580,  
0.3317

 8.7680, 0.1817,  
0.3284

 181.6380, 0.2618,  
0.3317

 4.5902, 0.1552,  
0.3247

222.9229, 0.2650,  
0.3316

 2.0089, 0.1165,  
0.3163

270.0327, 0.2679,

 0.6126, 0.0000,

0.3315

323.3518, 0.2705,  
0.3314

0.3029

0.0000, 0.0000,  
0.0000

49.1327, 0.2353,  
0.3317

49.1327, 0.2353,  
0.3317

48.5319, 0.2305,  
0.3322

49.9922, 0.2420,  
0.3312

48.1556, 0.2275,  
0.3326

51.1294, 0.2506,  
0.3308

47.9641, 0.2261,  
0.3331

52.5678, 0.2611,  
0.3304

47.9323, 0.2259,  
0.3332

54.3269, 0.2731,  
0.3300

56.4245, 0.2864,  
0.3296

■ 58.8773, 0.3009,  
0.3292

■ 61.7006, 0.3161,  
0.3289

■ 64.9090, 0.3317,  
0.3287

■ 68.5164, 0.3476,  
0.3284

# Harmonies

## Analogous

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



49.1327, 0.2720, 0.3835



49.1327, 0.2353, 0.3317



49.1327, 0.2190, 0.2846

# Triad

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



49.1327, 0.2353, 0.3317



49.1327, 0.2968, 0.2563



49.1327, 0.4067, 0.3975

# Complementary

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



49.1327, 0.2353, 0.3317



17.2885, 0.5337, 0.3276

# 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.



49.1327, 0.4165, 0.3597



49.1327, 0.2353, 0.3317



49.1327, 0.3500, 0.2820

# Square

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



49.1327, 0.2353, 0.3317



49.1327, 0.2520, 0.2463



49.1327, 0.3954, 0.3186



49.1327, 0.3712, 0.4213



# Rectangle

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



49.1327, 0.2353, 0.3317



49.1327, 0.2205, 0.2627



49.1327, 0.3954, 0.3186



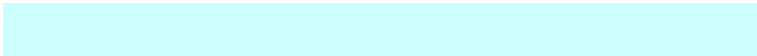
49.1327, 0.4133, 0.3858

# Sweetspot

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



49.1346, 0.2353, 0.3317



91.5297, 0.2831, 0.3297



45.2983, 0.3035, 0.5452



19.3779, 0.2792, 0.3298



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.



49.1346, 0.2353, 0.3317



79.1875, 0.2290, 0.3324



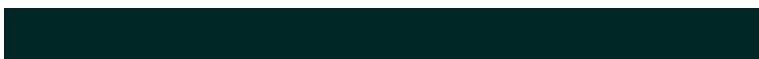
23.6842, 0.2083, 0.2210



12.7241, 0.2986, 0.3293



29.8382, 0.2259, 0.3331



1.5402, 0.2256, 0.3322



# Inverse Universe

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



17.2885, 0.5337, 0.3276



23.6539, 0.5956, 0.3282



30.1931, 0.4677, 0.4085



11.2163, 0.3288, 0.3287



8.0853, 0.6383, 0.3290

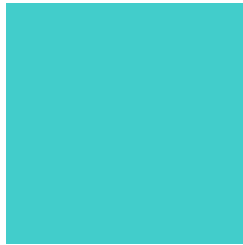


0.4181, 0.6323, 0.3257



# Previews

## White Background



This preview shows how the Yxy color 49.1327, 0.2353, 0.3317 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

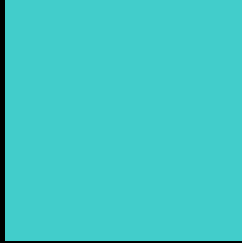
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.1327, 0.2353, 0.3317 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

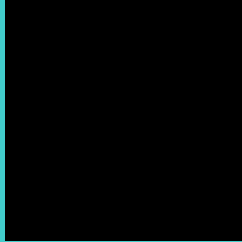
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

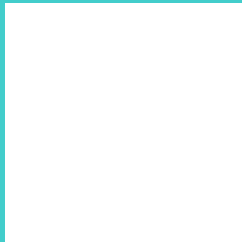
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.1327, 0.2353, 0.3317**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.1327, 0.2353, 0.3317.

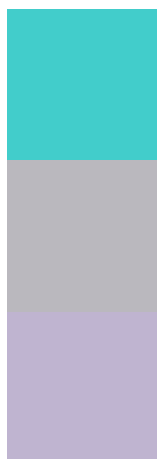


This preview shows how white text looks on a background with the Yxy color 49.1327, 0.2353, 0.3317.

# 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

49.1327, 0.2353, 0.3317

### Protanopia

48.4378, 0.3097, 0.3214

### Deuteranopia

48.2729, 0.3002, 0.2946



## Tritanopia

49.3222, 0.2302, 0.3064

# Trichromacy



## Original Color

49.1327, 0.2353, 0.3317



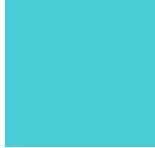
## Protanomaly

47.3902, 0.2731, 0.3248



## Deuteranomaly

46.9624, 0.2685, 0.3061



## Tritanomaly

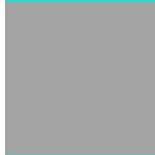
49.3675, 0.2322, 0.3160

# Monochromacy



## Original Color

49.1327, 0.2353, 0.3317



## Achromatopsia

36.6253, 0.3127, 0.3290



## Achromatomaly

39.6443, 0.2726, 0.3289

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.1327, 0.2353, 0.3317 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(66, 205, 203)` looks like.

```
.text, #text, p{  
    color:rgb(66, 205, 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(66, 205, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 205, 203) }
```

## Border

The CSS property to change the border of an element to Yxy 49.1327, 0.2353, 0.3317 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(66, 205, 203) }
```

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

```
.border{ border-color:rgb(66, 205, 203) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 205, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 205, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(66, 205, 203);  
box-shadow:4px 4px 4px 4px rgb(66, 205,  
203) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.1327, 0.2353, 0.3317 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 205, 203) }
```

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

```
.background{ background-color: rgb(66, 205,  
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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