

# Converting Colors

$Yxy(49.4832, 0.2350, 0.3463)$

Have a look what the booklet for  
Yxy(49.4832, 0.2350, 0.3463)  
contains.

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# Color

**Yxy(49.7257, 0.2351, 0.3465)**

# Conversions

## Conversions Part 1

Format	Color
Hex	30D0C4
RGB	48, 208, 196
RGB Percent	19%, 82%, 77%
CMY	0.8117, 0.1843, 0.2314
CMYK	0.77, 0.00, 0.06, 0.18
HSL	175°, 63%, 50%
HSV	175°, 77%, 82%
XYZ	33.7389, 49.7257, 60.0440
YIQ	158.7920, -91.5080, -37.6520

# Conversions

## Conversions Part 2

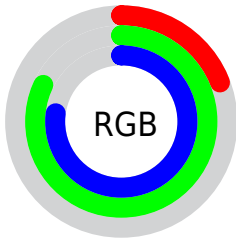
<b>Format</b>	<b>Color</b>
<b>RYB</b>	48, 131, 208
Decimal	3199172
CIELab	75.90, -42.10, -5.56
CIELCh	76, 42.464, 187.523
Yxy	49.7257, 0.2351, 0.3465
Android (android.graphics.Color)	4281389252 (0xFF30D0C4)
YUV	158.7920, 18.3435, -97.1646
Hunter-Lab	70.5165, -37.9998, -1.1232

# Details

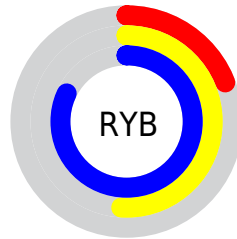
The Yxy color **49.7257, 0.2351, 0.3465** is a light color, and the websafe version is hex **00CCCC**. The color can be described as light muted cyan. A complement of this color would be **15.8522, 0.5622, 0.3196**, and the grayscale version is **34.5203, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.6768, 0.2458, 0.3311**, and **24.7355, 0.2308, 0.3508** is the 20% darker color. If you saturate the color by 10%, you get **49.2641, 0.2324, 0.3490**, and if you desaturate by 10%, it is **50.4288, 0.2397, 0.3440**.

# Distribution



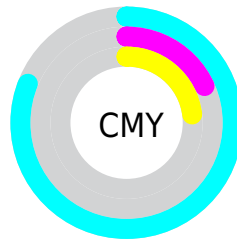
- Red (19%)
- Green (82%)
- Blue (77%)



- Red (19%)
- Yellow (51%)
- Blue (82%)



- Cyan (77%)
- Magenta (0%)
- Yellow (6%)
- Black (18%)



- Cyan (81%)
- Magenta (18%)
- Yellow (23%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.7257, 0.2351, 0.3465 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 49.7257, 0.2351, 0.3465 by changing the saturation by 10% instead.




 49.7257, 0.2351,  
0.3465

 49.7257, 0.2351,  
0.3465


385.5923, 0.2727,  
0.3386


 35.1955, 0.2261,  
0.3482


 89.7683, 0.2485,  
0.3438

 23.8135, 0.2148,  
0.3502


 116.0495, 0.2536,  
0.3428


 15.1953, 0.2002,  
0.3526


 147.0166, 0.2580,  
0.3419

 8.9566, 0.1808,  
0.3555

 183.0537, 0.2617,  
0.3410

 4.7129, 0.1537,  
0.3586

 224.5455, 0.2650,  
0.3403

 2.0798, 0.1123,  
0.3618

271.8763, 0.2679,

 0.6532, 0.0000,

0.3397

0.3712

325.4304, 0.2705,  
0.3391

■ 0.0000, 0.0000,  
0.0000

■ 49.7257, 0.2351,  
0.3465

■ 49.7257, 0.2351,  
0.3465

■ 49.2641, 0.2324,  
0.3490

■ 50.4288, 0.2397,  
0.3440

■ 48.9995, 0.2314,  
0.3515

■ 51.3970, 0.2462,  
0.3414

■ 48.9366, 0.2312,  
0.3523

■ 52.6573, 0.2546,  
0.3390

■ 54.2319, 0.2646,  
0.3366

■ 56.1408, 0.2762,  
0.3343

■ 58.4024, 0.2890,  
0.3322

■ 61.0337, 0.3028,  
0.3303

■ 64.0508, 0.3172,  
0.3285

■ 67.4685, 0.3320,  
0.3269

# Harmonies

## Analogous

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



49.7257, 0.2800, 0.4028



49.7257, 0.2351, 0.3465



49.7257, 0.2115, 0.2905

# Triad

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



49.7257, 0.2351, 0.3465



49.7257, 0.2809, 0.2445



49.7257, 0.4228, 0.3943

# Complementary

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



49.7257, 0.2351, 0.3465



15.8522, 0.5622, 0.3196

# 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.



49.7257, 0.4257, 0.3506



49.7257, 0.2351, 0.3465



49.7257, 0.3391, 0.2688

# Square

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



49.7257, 0.2351, 0.3465



49.7257, 0.2360, 0.2382



49.7257, 0.3941, 0.3063



49.7257, 0.3890, 0.4270



# Rectangle

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



49.7257, 0.2351, 0.3465



49.7257, 0.2092, 0.2630



49.7257, 0.3941, 0.3063



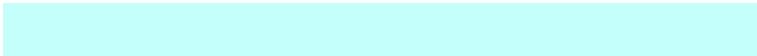
49.7257, 0.4276, 0.3804

# Sweetspot

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



49.7276, 0.2351, 0.3465



90.2426, 0.2808, 0.3335



46.3300, 0.3061, 0.5665



19.0494, 0.2762, 0.3343



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.



49.7276, 0.2351, 0.3465



77.8108, 0.2316, 0.3506



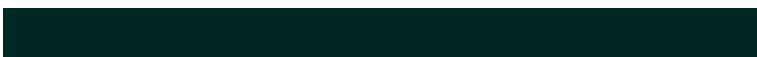
24.3341, 0.2022, 0.2218



13.3911, 0.2993, 0.3307



30.5054, 0.2311, 0.3519



1.7103, 0.2298, 0.3473



# Inverse Universe

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



15.8522, 0.5622, 0.3196



21.9145, 0.6189, 0.3241



25.8123, 0.5060, 0.4001



11.8224, 0.3279, 0.3273



8.3859, 0.6312, 0.3251

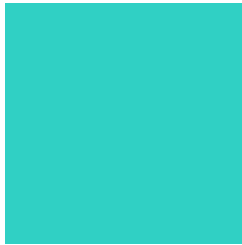


0.4740, 0.6042, 0.3102



# Previews

## White Background



This preview shows how the Yxy color 49.7257, 0.2351, 0.3465 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

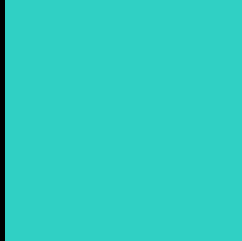
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.7257, 0.2351, 0.3465 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

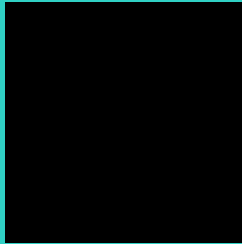
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

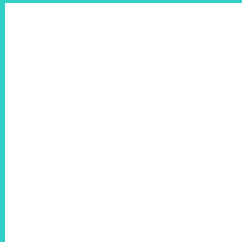
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.7257, 0.2351, 0.3465**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.7257, 0.2351, 0.3465.

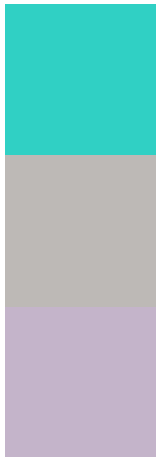


This preview shows how white text looks on a background with the Yxy color 49.7257, 0.2351, 0.3465.

# 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

49.7257, 0.2351, 0.3465

### Protanopia

48.8941, 0.3184, 0.3328

### Deuteranopia

48.6425, 0.3089, 0.3021



## Tritanopia

49.5300, 0.2268, 0.3050

# Trichromacy



## Original Color

49.7257, 0.2351, 0.3465



## Protanomaly

47.1311, 0.2757, 0.3373



## Deuteranomaly

46.7478, 0.2697, 0.3152



## Tritanomaly

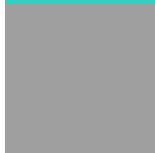
49.3459, 0.2294, 0.3188

# Monochromacy



## Original Color

49.7257, 0.2351, 0.3465



## Achromatopsia

34.6704, 0.3127, 0.3290



## Achromatomaly

38.3448, 0.2701, 0.3366

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.7257, 0.2351, 0.3465 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(48, 208, 196)` looks like.

```
.text, #text, p{  
    color:rgb(48, 208, 196)  
}
```

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(48, 208, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 208, 196) }
```

## Border

The CSS property to change the border of an element to Yxy 49.7257, 0.2351, 0.3465 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(48, 208, 196) }
```

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

```
.border{ border-color:rgb(48, 208, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(48, 208, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 208, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 208, 196);  
box-shadow:4px 4px 4px 4px rgb(48, 208,  
196) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.7257, 0.2351, 0.3465 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 208, 196) }
```

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

```
.background{ background-color: rgb(48, 208,  
196) }
```

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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