

# Converting Colors

$Y_{xy}(49.7245, 0.2266, 0.3314)$

Have a look what the booklet for  
Yxy(49.7245, 0.2266, 0.3314)  
contains.

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# Color

**Yxy(49.7167, 0.2267, 0.3317)**

# Conversions

## Conversions Part 1

Format	Color
Hex	14D0CE
RGB	20, 208, 206
RGB Percent	8%, 82%, 81%
CMY	0.9227, 0.1843, 0.1922
CMYK	0.91, 0.00, 0.01, 0.18
HSL	179°, 83%, 45%
HSV	179°, 91%, 82%
XYZ	33.9788, 49.7167, 66.1890
YIQ	151.5600, -111.4060, -40.4780

# Conversions

## Conversions Part 2

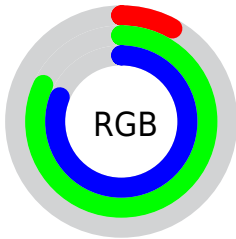
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">20, 115, 208</a>
Decimal	<a href="#">1364174</a>
CIELab	<a href="#">75.90, -41.24, -10.98</a>
CIELCh	<a href="#">76, 42.674, 194.914</a>
Yxy	<a href="#">49.7167, 0.2267, 0.3317</a>
Android (android.graphics.Color)	<a href="#">4279554254</a> ( <a href="#">0xFF14D0CE</a> )
YUV	<a href="#">151.5600, 26.8389, -115.3781</a>
Hunter-Lab	<a href="#">70.5101, -37.3734, -6.2995</a>

# Details

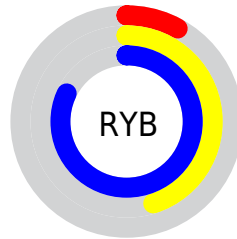
The Yxy color **49.7167, 0.2267, 0.3317** is a dark color, and the websafe version is hex **00CCCC**. The color can be described as middle washed cyan. A complement of this color would be **13.9586, 0.6226, 0.3291**, and the grayscale version is **31.0816, 0.3127, 0.3290**.

A 20% lighter version of the original color is **82.1195, 0.2417, 0.3288**, and **25.0495, 0.2252, 0.3307** is the 20% darker color. If you saturate the color by 10%, you get **49.5625, 0.2256, 0.3320**, and if you desaturate by 10%, it is **50.0452, 0.2292, 0.3314**.

# Distribution



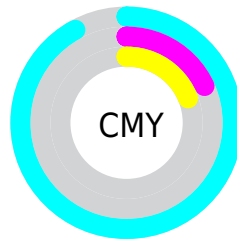
- Red (8%)
- Green (82%)
- Blue (81%)



- Red (8%)
- Yellow (45%)
- Blue (82%)



- Cyan (91%)
- Magenta (0%)
- Yellow (1%)
- Black (18%)




- Cyan (92%)
- Magenta (18%)
- Yellow (19%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 49.7167, 0.2267, 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 49.7167, 0.2267, 0.3317 by changing the saturation by 10% instead.





 49.7167, 0.2267,  
0.3317

 49.7167, 0.2267,  
0.3317


385.5570, 0.2680,  
0.3316


 35.1883, 0.2170,  
0.3314


 89.7550, 0.2413,  
0.3319


 23.8080, 0.2048,  
0.3307


 116.0337, 0.2469,  
0.3320


 15.1913, 0.1892,  
0.3295


 146.9980, 0.2517,  
0.3319

 8.9537, 0.1687,  
0.3271

 183.0323, 0.2559,  
0.3319

 4.7110, 0.1408,  
0.3224

 224.5209, 0.2595,  
0.3318

 2.0787, 0.1001,  
0.3124

271.8483, 0.2627,

 0.6526, 0.0000,

0.3318

0.2929

325.3989, 0.2655,  
0.3317

■ 0.0000, 0.0000,  
0.0000

■ 49.7167, 0.2267,  
0.3317

■ 49.7167, 0.2267,  
0.3317

■ 49.5625, 0.2256,  
0.3320

■ 50.0452, 0.2292,  
0.3314

■ 50.5967, 0.2335,  
0.3310

■ 51.4045, 0.2398,  
0.3307

■ 52.4951, 0.2479,  
0.3304

■ 53.8914, 0.2579,  
0.3301

■ 55.6144, 0.2695,  
0.3298

■ 57.6830, 0.2826,  
0.3295

■ 60.1145, 0.2968,  
0.3292

■ 62.9255, 0.3119,  
0.3290

# Harmonies

## Analogous

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



49.7167, 0.2671, 0.3908



49.7167, 0.2267, 0.3317



49.7167, 0.2090, 0.2790

# Triad

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



49.7167, 0.2267, 0.3317



49.7167, 0.2944, 0.2486



49.7167, 0.4174, 0.4042

# Complementary

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



49.7167, 0.2267, 0.3317



13.9586, 0.6226, 0.3291

# 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.



49.7167, 0.4288, 0.3619



49.7167, 0.2267, 0.3317



49.7167, 0.3540, 0.2768

# Square

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



49.7167, 0.2267, 0.3317



49.7167, 0.2450, 0.2375



49.7167, 0.4052, 0.3168



49.7167, 0.3775, 0.4321



# Rectangle

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



49.7167, 0.2267, 0.3317



49.7167, 0.2106, 0.2550



49.7167, 0.4052, 0.3168



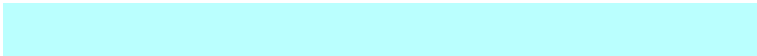
49.7167, 0.4250, 0.3910

# Sweetspot

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



49.7186, 0.2267, 0.3317



89.1503, 0.2736, 0.3297



45.3471, 0.3008, 0.5923



18.8540, 0.2692, 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.



49.7186, 0.2267, 0.3317



78.5647, 0.2256, 0.3321



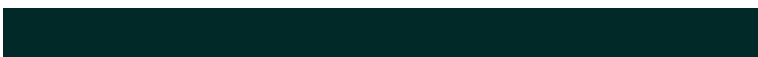
17.4229, 0.1848, 0.1786



13.4048, 0.2985, 0.3292



30.8874, 0.2256, 0.3320



1.7278, 0.2254, 0.3313



# Inverse Universe

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



13.9586, 0.6226, 0.3291



21.2660, 0.6393, 0.3296



24.7696, 0.5271, 0.4107



11.8103, 0.3289, 0.3288



8.3618, 0.6388, 0.3293

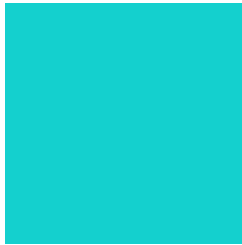


0.4683, 0.6346, 0.3270



# Previews

## White Background



This preview shows how the Yxy color 49.7167, 0.2267, 0.3317 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

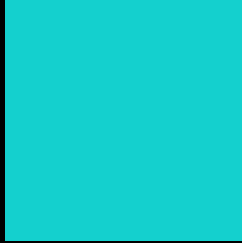
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 49.7167, 0.2267, 0.3317 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

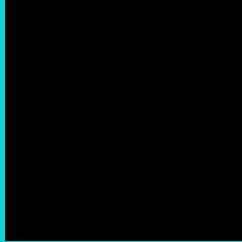
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

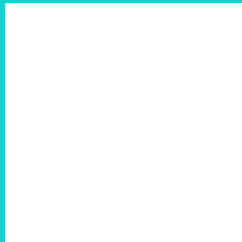
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 49.7167, 0.2267, 0.3317**

## **Background**



This preview shows how black text looks on a background with the Yxy color 49.7167, 0.2267, 0.3317.

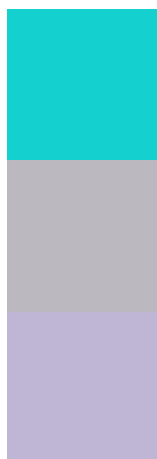


This preview shows how white text looks on a background with the Yxy color 49.7167, 0.2267, 0.3317.

# 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

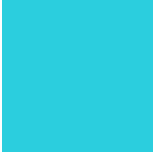
49.7167, 0.2267, 0.3317

### Protanopia

48.6515, 0.3090, 0.3189

### Deuteranopia

48.8776, 0.2972, 0.2912



## Tritanopia

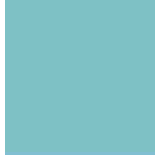
49.9301, 0.2224, 0.3063

# Trichromacy



## Original Color

49.7167, 0.2267, 0.3317



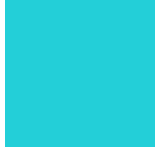
## Protanomaly

46.6068, 0.2618, 0.3232



## Deuteranomaly

46.5819, 0.2557, 0.3029



## Tritanomaly

49.9408, 0.2239, 0.3159

# Monochromacy



## Original Color

49.7167, 0.2267, 0.3317



## Achromatopsia

30.9469, 0.3127, 0.3290



## Achromatomaly

35.3289, 0.2591, 0.3304

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 49.7167, 0.2267, 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(20, 208, 206)` looks like.

```
.text, #text, p{  
    color:rgb(20, 208, 206)  
}
```

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(20, 208, 206) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(20, 208, 206) }
```

## Border

The CSS property to change the border of an element to Yxy 49.7167, 0.2267, 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(20, 208, 206) }
```

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

```
.border{ border-color:rgb(20, 208, 206) }
```

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

Here you see how a box with a 4 pixel `rgb(20, 208, 206)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(20, 208, 206); -webkit-box-  
shadow:4px 4px 4px 4px rgb(20, 208, 206);  
box-shadow:4px 4px 4px 4px rgb(20, 208,  
206) }
```



# Background

The CSS property to change the background color of an element to Yxy 49.7167, 0.2267, 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(20, 208, 206) }
```

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

```
.background{ background-color: rgb(20, 208,  
206) }
```

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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