

# Converting Colors

$Y_{xy}(46.5092, 0.2477, 0.4116)$

Have a look what the booklet for  
Yxy(46.5092, 0.2477, 0.4116)  
contains.

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# Color

**Yxy(46.5092, 0.2477, 0.4116)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CE9B
RGB	0, 206, 155
RGB Percent	0%, 81%, 61%
CMY	0.9984, 0.1922, 0.3923
CMYK	1.00, 0.00, 0.25, 0.19
HSL	165°, 100%, 40%
HSV	165°, 100%, 81%
XYZ	27.9891, 46.5092, 38.4978
YIQ	138.5920, -106.4050, -59.5330

# Conversions

## Conversions Part 2

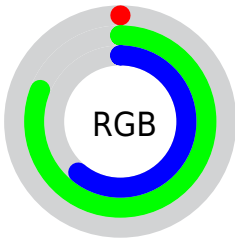
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 118, 206
Decimal	52891
CIELab	73.87, -54.74, 13.53
CIELCh	74, 56.389, 166.114
Yxy	46.5092, 0.2477, 0.4116
Android (android.graphics.Color)	4278242971 (0xFF00CE9B)
YUV	138.5920, 8.0891, -121.5452
Hunter-Lab	68.1977, -46.0873, 14.2690

# Details

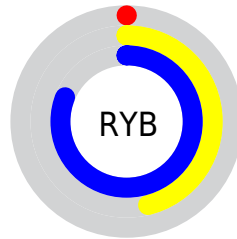
The Yxy color **46.5092, 0.2477, 0.4116** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **13.3739, 0.5947, 0.3051**, and the grayscale version is **25.7018, 0.3127, 0.3290**.

A 20% lighter version of the original color is **79.0567, 0.2579, 0.3847**, and **22.8122, 0.2529, 0.4303** is the 20% darker color. If you saturate the color by 10%, you get **46.5048, 0.2477, 0.4118**, and if you desaturate by 10%, it is **46.8434, 0.2469, 0.4024**.

# Distribution



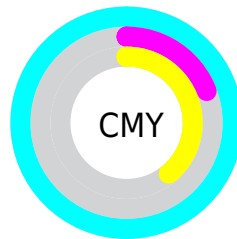
- Red (0%)
- Green (81%)
- Blue (61%)



- Red (0%)
- Yellow (46%)
- Blue (81%)



- Cyan (100%)
- Magenta (0%)
- Yellow (25%)
- Black (19%)




- Cyan (100%)
- Magenta (19%)
- Yellow (39%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 46.5092, 0.2477, 0.4116 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 46.5092, 0.2477, 0.4116 by changing the saturation by 10% instead.




 46.5092, 0.2477,  
0.4116


 46.5092, 0.2477,  
0.4116


372.8520, 0.2810,  
0.3683

 32.6478, 0.2392,  
0.4231


 84.9805, 0.2600,  
0.3954


 21.8568, 0.2282,  
0.4382


 110.3593, 0.2645,  
0.3894

 13.7517, 0.2133,  
0.4589


 140.3460, 0.2684,  
0.3844

 7.9482, 0.1925,  
0.4890

 175.3250, 0.2716,  
0.3802

 4.0618, 0.1613,  
0.5362

 215.6807, 0.2744,  
0.3766

 1.7082, 0.0483,  
0.6677

261.7975, 0.2769,

 0.4290, 0.0000,

0.3735

1.0000

314.0598, 0.2791,  
0.3707

■ 0.0000, 0.0000,  
0.0000

■ 46.5092, 0.2477,  
0.4116

■ 46.5092, 0.2477,  
0.4116

■ 46.5048, 0.2477,  
0.4118

■ 46.8434, 0.2469,  
0.4024

■ 47.3508, 0.2476,  
0.3932

■ 48.0880, 0.2503,  
0.3839

■ 49.0853, 0.2550,  
0.3748

■ 50.3683, 0.2615,  
0.3659

■ 51.9595, 0.2697,  
0.3574

■ 53.8791, 0.2792,  
0.3494

■ 56.1454, 0.2898,  
0.3419

■ 58.7757, 0.3011,  
0.3351

# Harmonies

## Analogous

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



46.5092, 0.3190, 0.4680



46.5092, 0.2477, 0.4116



46.5092, 0.1978, 0.3270

# Triad

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



46.5092, 0.2477, 0.4116



46.5092, 0.2255, 0.2107



46.5092, 0.4688, 0.3696

# Complementary

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



46.5092, 0.2477, 0.4116



13.3739, 0.5947, 0.3051

# 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.



46.5092, 0.4400, 0.3126



46.5092, 0.2477, 0.4116



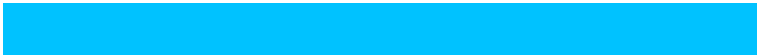
46.5092, 0.2900, 0.2262

# Square

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



46.5092, 0.2477, 0.4116



46.5092, 0.1876, 0.2196



46.5092, 0.3706, 0.2623



46.5092, 0.4487, 0.4259



# Rectangle

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



46.5092, 0.2477, 0.4116



46.5092, 0.1812, 0.2775



46.5092, 0.3706, 0.2623



46.5092, 0.4648, 0.3503

# Sweetspot

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



46.5110, 0.2477, 0.4116



87.1010, 0.2786, 0.3498



44.8688, 0.3098, 0.5921



18.3476, 0.2744, 0.3532



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.



46.5110, 0.2477, 0.4116



75.3126, 0.2480, 0.4129



27.7702, 0.2016, 0.2455



12.6776, 0.3016, 0.3348



28.6522, 0.2473, 0.4104



1.4898, 0.2424, 0.3925



# Inverse Universe

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



13.3739, 0.5947, 0.3051



21.6222, 0.5981, 0.3068



15.5621, 0.6084, 0.3549



11.2586, 0.3252, 0.3233



8.2411, 0.5917, 0.3033

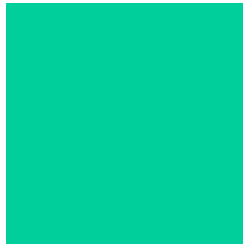


0.4376, 0.5345, 0.2718



# Previews

## White Background



This preview shows how the Yxy color 46.5092, 0.2477, 0.4116 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 46.5092, 0.2477, 0.4116 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 46.5092, 0.2477, 0.4116**

## **Background**



This preview shows how black text looks on a background with the Yxy color 46.5092, 0.2477, 0.4116.

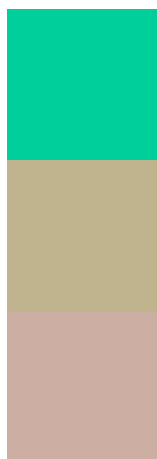


This preview shows how white text looks on a background with the Yxy color 46.5092, 0.2477, 0.4116.

# 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

46.5092, 0.2477, 0.4116

### Protanopia

45.8020, 0.3551, 0.3788

### Deuteranopia

45.7181, 0.3505, 0.3442



## Tritanopia

46.4015, 0.2279, 0.3058

# Trichromacy



## Original Color

46.5092, 0.2477, 0.4116



## Protanomaly

42.6394, 0.2908, 0.3937



## Deuteranomaly

42.3668, 0.2881, 0.3696



## Tritanomaly

46.1158, 0.2326, 0.3409

# Monochromacy



## Original Color

46.5092, 0.2477, 0.4116



## Achromatopsia

25.8183, 0.3127, 0.3290



## Achromatomaly

30.3626, 0.2653, 0.3608

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 46.5092, 0.2477, 0.4116 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(0, 206, 155)` looks like.

```
.text, #text, p{  
    color:rgb(0, 206, 155)  
}
```

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(0, 206, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 206, 155) }
```

## Border

The CSS property to change the border of an element to Yxy 46.5092, 0.2477, 0.4116 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(0, 206, 155) }
```

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

```
.border{ border-color:rgb(0, 206, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 206, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 206, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 206, 155);  
box-shadow:4px 4px 4px 4px rgb(0, 206,  
155) }
```



# Background

The CSS property to change the background color of an element to Yxy 46.5092, 0.2477, 0.4116 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 206, 155) }
```

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

```
.background{ background-color: rgb(0, 206,  
155) }
```

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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