

# Converting Colors

$Y_{xy}(58.5822, 0.2475, 0.4108)$

Have a look what the booklet for  
Yxy(58.5822, 0.2475, 0.4108)  
contains.

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# Color

**Yxy(58.4718, 0.2477, 0.4114)**

# Conversions

## Conversions Part 1

Format	Color
Hex	01E4AC
RGB	1, 228, 172
RGB Percent	0%, 89%, 67%
CMY	0.9941, 0.1059, 0.3255
CMYK	0.99, 0.00, 0.25, 0.11
HSL	165°, 99%, 45%
HSV	165°, 99%, 89%
XYZ	35.2053, 58.4718, 48.4517
YIQ	153.7430, -117.3160, -65.5400

# Conversions

## Conversions Part 2

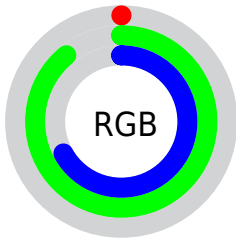
Format	Color
<b>RYB</b>	1, 130, 228
Decimal	124076
CIELab	81.00, -59.02, 14.55
CIELCh	81, 60.791, 166.151
Yxy	58.4718, 0.2477, 0.4114
Android (android.graphics.Color)	4278314156 (0xFF01E4AC)
YUV	153.7430, 9.0007, -133.9556
Hunter-Lab	76.4669, -51.6357, 15.9589

# Details

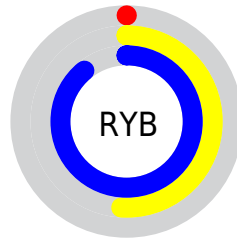
The Yxy color **58.4718, 0.2477, 0.4114** is a dark color, and the websafe version is hex **00CC99**. The color can be described as middle washed spring green. A complement of this color would be **16.8269, 0.5952, 0.3057**, and the grayscale version is **32.2623, 0.3127, 0.3290**.

A 20% lighter version of the original color is **80.3173, 0.2525, 0.3626**, and **30.4819, 0.2524, 0.4285** is the 20% darker color. If you saturate the color by 10%, you get **58.4502, 0.2478, 0.4120**, and if you desaturate by 10%, it is **58.8835, 0.2468, 0.4022**.

# Distribution



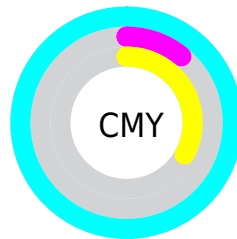
- Red (0%)
- Green (89%)
- Blue (67%)



- Red (0%)
- Yellow (51%)
- Blue (89%)



- Cyan (99%)
- Magenta (0%)
- Yellow (25%)
- Black (11%)



- Cyan (99%)
- Magenta (11%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 58.4718, 0.2477, 0.4114 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 58.4718, 0.2477, 0.4114 by changing the saturation by 10% instead.





 58.4718, 0.2477,  
0.4114

 58.4718, 0.2477,  
0.4114


418.9417, 0.2797,  
0.3697


 42.1881, 0.2399,  
0.4219


 102.6096, 0.2592,  
0.3962

 29.2486, 0.2300,  
0.4354

 131.2324, 0.2636,  
0.3905

 19.2689, 0.2170,  
0.4534


 164.7371, 0.2673,  
0.3857

 11.8648, 0.1994,  
0.4784


 203.5080, 0.2705,  
0.3816

 6.6517, 0.1744,  
0.5156

 247.9295, 0.2732,  
0.3780

 3.2452, 0.1363,  
0.5755

298.3860, 0.2757,

 1.2611, 0.0000,

0.3749

0.8034

355.2620, 0.2778,  
0.3722

■ 0.1107, 0.0000,  
1.0000

■ 0.0000, 0.0000,  
0.0000

■ 58.4718, 0.2477,  
0.4114

■ 58.4718, 0.2477,  
0.4114

■ 58.4502, 0.2478,  
0.4120

■ 58.8835, 0.2468,  
0.4022

■ 59.5229, 0.2475,  
0.3930

■ 60.4545, 0.2503,  
0.3837

■ 61.7171, 0.2550,  
0.3745

■ 63.3435, 0.2616,  
0.3656

■ 65.3624, 0.2698,  
0.3571

■ 67.7996, 0.2794,  
0.3491

■ 70.6787, 0.2901,  
0.3416

■ 74.0215, 0.3016,  
0.3348

# Harmonies

## Analogous

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



58.4718, 0.3189, 0.4678



58.4718, 0.2477, 0.4114



58.4718, 0.1979, 0.3269

# Triad

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



58.4718, 0.2477, 0.4114



58.4718, 0.2256, 0.2108



58.4718, 0.4686, 0.3697

# Complementary

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



58.4718, 0.2477, 0.4114



16.8269, 0.5952, 0.3057

# 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.



58.4718, 0.4400, 0.3127



58.4718, 0.2477, 0.4114



58.4718, 0.2902, 0.2264

# Square

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



58.4718, 0.2477, 0.4114



58.4718, 0.1878, 0.2197



58.4718, 0.3706, 0.2624

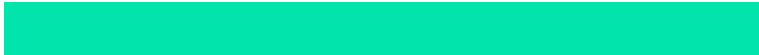


58.4718, 0.4485, 0.4259



# Rectangle

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



58.4718, 0.2477, 0.4114



58.4718, 0.1813, 0.2775



58.4718, 0.3706, 0.2624



58.4718, 0.4646, 0.3504

# Sweetspot

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



58.4741, 0.2477, 0.4114



87.1051, 0.2786, 0.3497



56.3930, 0.3097, 0.5919



18.3486, 0.2744, 0.3531



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.



58.4741, 0.2477, 0.4114



75.3230, 0.2479, 0.4126



34.8783, 0.2016, 0.2454



16.2723, 0.3014, 0.3349



33.7713, 0.2474, 0.4106



2.5101, 0.2437, 0.3972



# Inverse Universe

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



16.8269, 0.5952, 0.3057



21.6196, 0.5984, 0.3070



19.5357, 0.6083, 0.3545



14.4262, 0.3254, 0.3232



9.7072, 0.5933, 0.3042

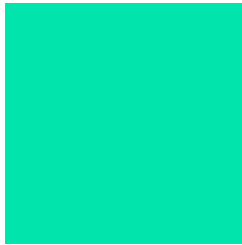


0.7319, 0.5519, 0.2814



# Previews

## White Background



This preview shows how the Yxy color 58.4718, 0.2477, 0.4114 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

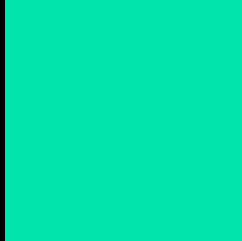
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the Yxy color 58.4718, 0.2477, 0.4114 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

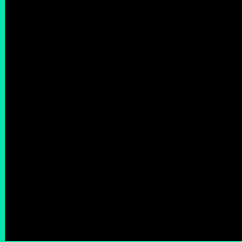
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

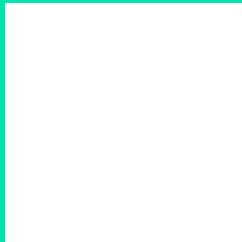
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**Yxy 58.4718, 0.2477, 0.4114**

## **Background**



This preview shows how black text looks on a background with the Yxy color 58.4718, 0.2477, 0.4114.

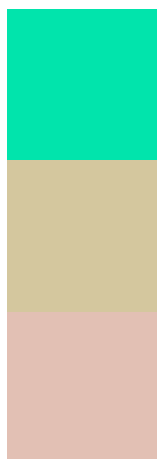


This preview shows how white text looks on a background with the Yxy color 58.4718, 0.2477, 0.4114.

# 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

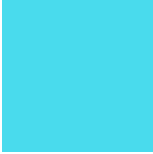
58.4718, 0.2477, 0.4114

### Protanopia

57.3125, 0.3544, 0.3780

### Deuteranopia

57.1633, 0.3505, 0.3428



## Tritanopia

58.1939, 0.2275, 0.3053

# Trichromacy



## Original Color

58.4718, 0.2477, 0.4114



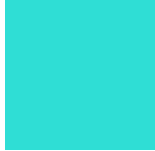
## Protanomaly

53.8884, 0.2905, 0.3948



## Deuteranomaly

52.7663, 0.2873, 0.3674



## Tritanomaly

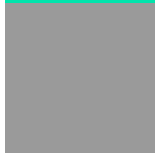
57.6510, 0.2326, 0.3412

# Monochromacy



## Original Color

58.4718, 0.2477, 0.4114



## Achromatopsia

32.3143, 0.3127, 0.3290



## Achromatomaly

38.2736, 0.2651, 0.3611

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 58.4718, 0.2477, 0.4114 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(1, 228, 172)` looks like.

```
.text, #text, p{  
    color:rgb(1, 228, 172)  
}
```

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(1, 228, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 228, 172) }
```

## Border

The CSS property to change the border of an element to Yxy 58.4718, 0.2477, 0.4114 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(1, 228, 172) }
```

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

```
.border{ border-color:rgb(1, 228, 172) }
```

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

Here you see how a box with a 4 pixel rgb(1, 228, 172) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 228, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 228, 172);  
box-shadow:4px 4px 4px 4px rgb(1, 228,  
172) }
```



# Background

The CSS property to change the background color of an element to Yxy 58.4718, 0.2477, 0.4114 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 228, 172) }
```

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

```
.background{ background-color: rgb(1, 228,  
172) }
```

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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