

# Converting Colors

XYZ(22.9266, 38.7064, 29.6747)

Have a look what the booklet for  
XYZ(22.9266, 38.7064, 29.6747)  
contains.

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# Color

**XYZ(22.8574, 38.6045,  
29.5393)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BE88
RGB	0, 190, 136
RGB Percent	0%, 75%, 53%
CMY	0.9999, 0.2549, 0.4667
CMYK	1.00, 0.00, 0.28, 0.25
HSL	163°, 100%, 37%
HSV	163°, 100%, 75%
XYZ	22.8574, 38.6045, 29.5393
YIQ	127.0340, -95.9060, -57.0740

# Conversions

## Conversions Part 2

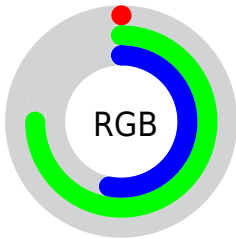
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 111, 190
Decimal	48776
CIELab	68.46, -53.14, 16.15
CIELCh	68, 55.537, 163.089
Yxy	38.6045, 0.2512, 0.4242
Android (android.graphics.Color)	4278238856 (0xFF00BE88)
YUV	127.0340, 4.4202, -111.4088
Hunter-Lab	62.1325, -43.0651, 15.3049

# Details

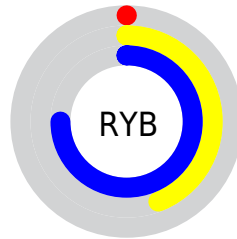
The XYZ color **22.8574, 38.6045, 29.5393** is a dark color, and the websafe version is hex **00CC99**. A complement of this color would be **21.9025, 11.2145, 4.5027**, and the grayscale version is **20.1957, 21.2475, 23.1385**.

A 20% lighter version of the original color is **47.4831, 72.7923, 59.6918**, and **10.3437, 17.9998, 11.7332** is the 20% darker color. If you saturate the color by 10%, you get **22.8578, 38.6057, 29.5382**, and if you desaturate by 10%, it is **23.5208, 38.9020, 31.6258**.

# Distribution



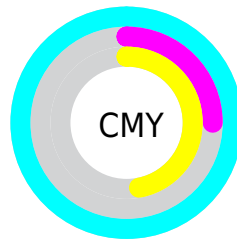
- Red (0%)
- Green (75%)
- Blue (53%)



- Red (0%)
- Yellow (44%)
- Blue (75%)



- Cyan (100%)
- Magenta (0%)
- Yellow (28%)
- Black (25%)




- Cyan (100%)
- Magenta (25%)
- Yellow (47%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.8574, 38.6045, 29.5393 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 XYZ color 22.8574, 38.6045, 29.5393 by changing the saturation by 10% instead.





 22.8574, 38.6045,  
29.5393


 22.8574, 38.6045,  
29.5393


259.5408,  
340.2061, 313.8913


 14.6084, 26.4522,  
19.2401


 47.6275, 73.0337,  
59.9852


 8.6295, 17.1622,  
11.6653


 64.8792, 96.0795,  
80.9690


 4.5555, 10.3502,  
6.3965


 85.8625, 123.5251,  
106.3514

 2.0209, 5.6318,  
3.0150

 110.9428,  
155.7551, 136.5509

 0.6457, 2.6225,  
1.1023

 140.4854,  
193.1538, 171.9861

 0.0000, 0.9380,  
0.0000

 174.8557,

 0.0000, 0.0000,

236.1056, 213.0756

0.0000

214.4191,  
284.9949, 260.2378

■ 22.8574, 38.6045,  
29.5393

■ 22.8574, 38.6045,  
29.5393

■ 22.8578, 38.6057,  
29.5382

■ 23.5208, 38.9020,  
31.6258

■ 24.4652, 39.3411,  
33.8270

■ 25.7868, 39.9724,  
36.1497

■ 27.5337, 40.8206,  
38.5975

■ 29.7468, 41.9068,  
41.1737

■ 32.4620, 43.2493,  
43.8813

■ 35.7114, 44.8649,  
46.7231

■ 39.5246, 46.7687,  
49.7018

■ 43.9289, 48.9748,  
52.8199

# Harmonies

## Analogous

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



26.3752, 38.6045, 15.7867



22.8574, 38.6045, 29.5393



22.6466, 38.6045, 53.8922

# Triad

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



22.8574, 38.6045, 29.5393



40.6281, 38.6045, 108.4288



50.3723, 38.6045, 16.9970

# Complementary

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



22.8574, 38.6045, 29.5393



21.9025, 11.2145, 4.5027

# 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.



55.5985, 38.6045, 32.0565



22.8574, 38.6045, 29.5393



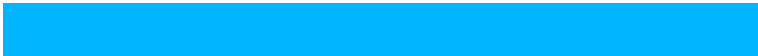
49.4004, 38.6045, 87.8434

# Square

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



22.8574, 38.6045, 29.5393



32.0214, 38.6045, 106.8749



55.2170, 38.6045, 57.6319



41.7969, 38.6045, 10.7691



# Rectangle

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



22.8574, 38.6045, 29.5393



24.3453, 38.6045, 74.1340



55.2170, 38.6045, 57.6319



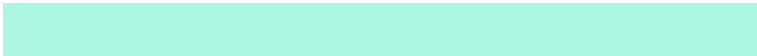
52.6357, 38.6045, 20.8660

# Sweetspot

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



22.8584, 38.6060, 29.5402



64.3965, 81.1417, 84.4051



20.1024, 37.6986, 6.2176



13.5666, 17.5322, 18.0463



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



22.8584, 38.6060, 29.5402



41.3080, 69.9119, 52.9348



20.5241, 26.1764, 52.6878



9.6898, 10.7620, 11.6159



15.2337, 25.6837, 19.8251



0.6235, 1.0168, 0.9175



# Inverse Universe

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



21.9025, 11.2145, 4.5027



39.5965, 20.2839, 7.6735



21.9297, 12.3348, 1.2256



9.6387, 9.5798, 10.4863



14.5927, 7.4682, 3.1488

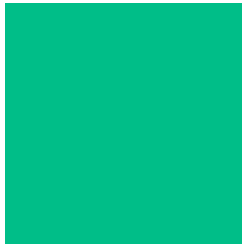


0.6008, 0.3042, 0.2768



# Previews

## White Background



This preview shows how the XYZ color 22.8574, 38.6045, 29.5393 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

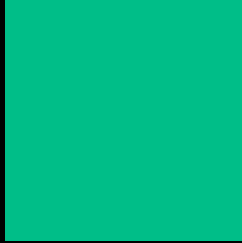
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 22.8574, 38.6045, 29.5393 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](#).

**XYZ 22.8574, 38.6045, 29.5393**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.8574, 38.6045, 29.5393.



This preview shows how white text looks on a background with the XYZ color 22.8574, 38.6045,



# 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

22.8574, 38.6045, 29.5393

### Protanopia

35.4694, 38.1002, 24.8867

### Deuteranopia

38.7639, 38.0719, 31.2921



## Tritanopia

28.8559, 38.5439, 58.7422

# Trichromacy



## Original Color

22.8574, 38.6045, 29.5393



## Protanomaly

26.1025, 35.7556, 26.2947



## Deuteranomaly

27.1817, 35.0842, 30.1502



## Tritanomaly

25.9619, 38.2442, 46.5710

# Monochromacy



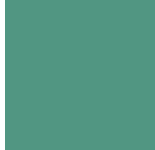
## Original Color

22.8574, 38.6045, 29.5393



## Achromatopsia

20.1725, 21.2231, 23.1119



## Achromatomaly

18.3289, 25.1737, 25.0121

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.8574, 38.6045, 29.5393 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, 190, 136)` looks like.

```
.text, #text, p{  
    color:rgb(0, 190, 136)  
}
```

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, 190, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 190, 136) }
```

## Border

The CSS property to change the border of an element to XYZ 22.8574, 38.6045, 29.5393 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, 190, 136) }
```



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

```
.border{ border-color:rgb(0, 190, 136) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 190, 136)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 190, 136); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 190, 136);  
box-shadow:4px 4px 4px 4px rgb(0, 190,  
136) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.8574, 38.6045, 29.5393 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 190, 136) }
```

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

```
.background{ background-color: rgb(0, 190,  
136) }
```

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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