

# Converting Colors

XYZ(17.9819, 31.9361, 38.2305)

Have a look what the booklet for  
XYZ(17.9819, 31.9361, 38.2305)  
contains.

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# Color

**XYZ(21.9801, 33.9475,  
38.1949)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B19F
RGB	0, 177, 159
RGB Percent	0%, 69%, 62%
CMY	0.9999, 0.3059, 0.3765
CMYK	1.00, 0.00, 0.10, 0.31
HSL	174°, 100%, 35%
HSV	174°, 100%, 69%
XYZ	21.9801, 33.9475, 38.1949
YIQ	122.0250, -99.7140, -43.1220

# Conversions

## Conversions Part 2

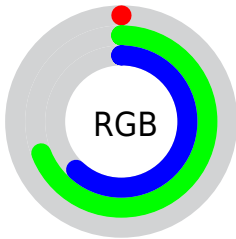
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 93, 177
Decimal	45471
CIELab	64.92, -41.89, -1.53
CIElCh	65, 41.922, 182.096
Yxy	33.9475, 0.2335, 0.3607
Android (android.graphics.Color)	4278235551 (0xFF00B19F)
YUV	122.0250, 18.2287, -107.0159
Hunter-Lab	58.2645, -34.6243, 1.9180

# Details

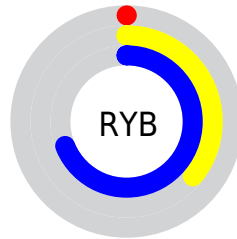
The XYZ color **21.9801, 33.9475, 38.1949** is a dark color, and the websafe version is hex **00CCCC**. A complement of this color would be **18.2417, 9.3916, 1.4246**, and the grayscale version is **18.4750, 19.4371, 21.1670**.

A 20% lighter version of the original color is **46.1004, 65.6197, 73.8544**, and **9.7897, 15.2486, 16.6147** is the 20% darker color. If you saturate the color by 10%, you get **21.9806, 33.9486, 38.1947**, and if you desaturate by 10%, it is **22.3825, 34.1375, 39.0361**.

# Distribution



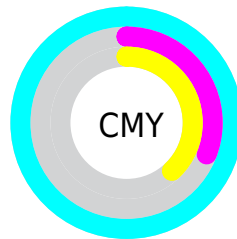
- Red (0%)
- Green (69%)
- Blue (62%)



- Red (0%)
- Yellow (36%)
- Blue (69%)



- Cyan (100%)
- Magenta (0%)
- Yellow (10%)
- Black (31%)



- Cyan (100%)
- Magenta (31%)
- Yellow (38%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.9801, 33.9475, 38.1949 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 21.9801, 33.9475, 38.1949 by changing the saturation by 10% instead.



■ 21.9801, 33.9475,  
38.1949

■ 21.9801, 33.9475,  
38.1949

■ 255.0767,  
319.8979, 353.7785

■ 13.9588, 22.8533,  
25.8310

■ 46.1922, 65.8520,  
73.6135

■ 8.1735, 14.4852,  
16.4726

■ 63.1137, 87.4311,  
97.5053

■ 4.2589, 8.4589,  
9.7012

■ 83.7327, 113.2739,  
126.0767

■ 1.8496, 4.3900,  
5.0983

■ 108.4144,  
143.7649, 159.7465

■ 0.5473, 1.8940,  
2.2453

■ 137.5244,  
179.2883, 198.9330

■ 0.0000, 0.5448,  
0.7003

■ 171.4278,

■ 0.0000, 0.0000,

220.2287, 244.0548

0.0000

210.4901,  
266.9705, 295.5304

■ 21.9801, 33.9475,  
38.1949

■ 21.9801, 33.9475,  
38.1949

■ 21.9806, 33.9486,  
38.1947

■ 22.3825, 34.1375,  
39.0361

■ 23.0055, 34.4402,  
39.8988

■ 23.9346, 34.9005,  
40.7878

■ 25.2098, 35.5389,  
41.7050

■ 26.8650, 36.3730,  
42.6521

■ 28.9302, 37.4181,  
43.6305

■ 31.4322, 38.6881,  
44.6415

■ 34.3955, 40.1957,  
45.6863

■ 37.8430, 41.9527,  
46.7660

# Harmonies

## Analogous

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



23.0379, 33.9475, 23.4595



21.9801, 33.9475, 38.1949



23.3794, 33.9475, 57.6439

# Triad

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



21.9801, 33.9475, 38.1949



38.8510, 33.9475, 72.9855



38.0229, 33.9475, 14.6443

# Complementary

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



21.9801, 33.9475, 38.1949



18.2417, 9.3916, 1.4246

# 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.



43.1599, 33.9475, 21.9352



21.9801, 33.9475, 38.1949



43.6784, 33.9475, 54.8523

# Square

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



21.9801, 33.9475, 38.1949



32.6934, 33.9475, 81.2599



45.3450, 33.9475, 35.7580



31.8425, 33.9475, 12.6632



# Rectangle

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



21.9801, 33.9475, 38.1949



25.6334, 33.9475, 69.9795



45.3450, 33.9475, 35.7580



39.9543, 33.9475, 16.4131

# Sweetspot

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



21.9811, 33.9488, 38.1957



56.0369, 69.1571, 79.8522



16.0251, 31.6013, 5.2557



11.7278, 14.7760, 17.1428



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



21.9811, 33.9488, 38.1957



39.3175, 60.7796, 68.1517



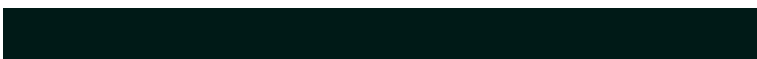
13.4221, 14.1460, 43.6195



8.7047, 9.6164, 10.7044



15.9381, 24.6012, 27.7403



0.5121, 0.7783, 0.9289



# Inverse Universe

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



18.2417, 9.3916, 1.4246



32.6310, 16.8036, 2.3524



20.1911, 13.4653, 1.5355



8.5303, 8.5188, 9.0251



13.2272, 6.8084, 1.0902

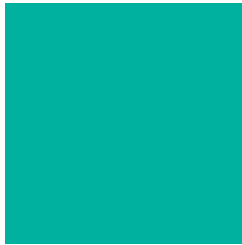


0.4276, 0.2188, 0.0942



# Previews

## White Background



This preview shows how the XYZ color 21.9801, 33.9475, 38.1949 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 21.9801, 33.9475, 38.1949 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

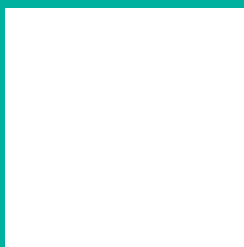
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 21.9801, 33.9475, 38.1949**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.9801, 33.9475, 38.1949.



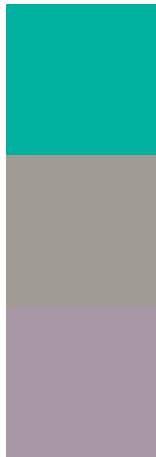
This preview shows how white text looks on a background with the XYZ color 21.9801, 33.9475,



# 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

21.9801, 33.9475, 38.1949

### Protanopia

31.8529, 33.4606, 32.3835

### Deuteranopia

34.1682, 33.4979, 40.2622



## Tritanopia

24.9954, 34.0329, 52.2653

# Trichromacy



## Original Color

21.9801, 33.9475, 38.1949



## Protanomaly

24.3409, 31.6101, 34.0966



## Deuteranomaly

25.4191, 31.2599, 39.3444



## Tritanomaly

23.5786, 33.7076, 46.8585

# Monochromacy



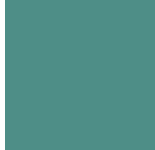
## Original Color

21.9801, 33.9475, 38.1949



## Achromatopsia

18.4984, 19.4618, 21.1939



## Achromatomaly

17.1881, 22.7150, 26.4002

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.9801, 33.9475, 38.1949 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, 177, 159)` looks like.

```
.text, #text, p{  
    color:rgb(0, 177, 159)  
}
```

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, 177, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 177, 159) }
```

## Border

The CSS property to change the border of an element to XYZ 21.9801, 33.9475, 38.1949 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, 177, 159) }
```



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

```
.border{ border-color:rgb(0, 177, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 177, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 177, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 177, 159);  
box-shadow:4px 4px 4px 4px rgb(0, 177,  
159) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.9801, 33.9475, 38.1949 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 177, 159) }
```

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

```
.background{ background-color: rgb(0, 177,  
159) }
```

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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