

# Converting Colors

XYZ(19.4018, 28.8397, 38.7214)

Have a look what the booklet for  
XYZ(19.4018, 28.8397, 38.7214)  
contains.

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# Color

**XYZ(19.7970, 29.1596,  
38.7674)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00A4A2
RGB	0, 164, 162
RGB Percent	0%, 64%, 64%
CMY	0.9999, 0.3569, 0.3647
CMYK	1.00, 0.00, 0.01, 0.36
HSL	179°, 100%, 32%
HSV	179°, 100%, 64%
XYZ	19.7970, 29.1596, 38.7674
YIQ	114.7360, -97.1020, -35.3900

# Conversions

## Conversions Part 2

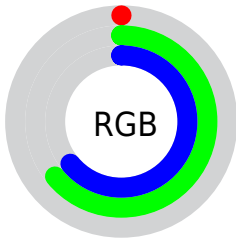
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 83, 164
Decimal	42146
CIELab	60.92, -35.18, -9.13
CIELCh	61, 36.341, 194.548
Yxy	29.1596, 0.2257, 0.3324
Android (android.graphics.Color)	4278232226 (0xFF00A4A2)
YUV	114.7360, 23.3012, -100.6235
Hunter-Lab	53.9996, -29.0588, -4.7657

# Details

The XYZ color **19.7970, 29.1596, 38.7674** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **15.3217, 7.8977, 0.7749**, and the grayscale version is **16.1708, 17.0129, 18.5270**.

A 20% lighter version of the original color is **42.7337, 58.5758, 74.6996**, and **8.4989, 12.4947, 16.7156** is the 20% darker color. If you saturate the color by 10%, you get **19.7976, 29.1605, 38.7680**, and if you desaturate by 10%, it is **20.0364, 29.2816, 38.8722**.

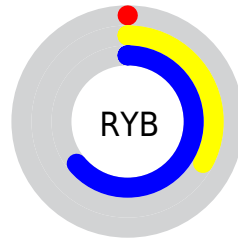
# Distribution



Red (0%)

Green (64%)

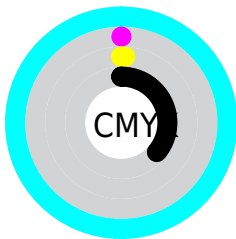
Blue (64%)



Red (0%)

Yellow (33%)

Blue (64%)

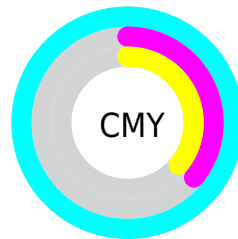


Cyan (100%)

Magenta (0%)

Yellow (1%)

Black (36%)



Cyan (100%)

Magenta (36%)


Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.7970, 29.1596, 38.7674 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 19.7970, 29.1596, 38.7674 by changing the saturation by 10% instead.





 19.7970, 29.1596,  
38.7674


 19.7970, 29.1596,  
38.7674


243.6686,  
297.9673, 356.2970


 12.3550, 19.2016,  
26.2724

 42.5831, 58.3306,  
74.4993


 7.0598, 11.8160,  
16.7999

 58.6579, 78.3123,  
98.5732


 3.5462, 6.6185,  
9.9315


 78.3410, 102.4041,  
127.3439

 1.4488, 3.2247,  
5.2486

 101.9978,  
130.9903, 161.2298

 0.2906, 1.2501,  
2.3325

 129.9936,  
164.4553, 200.6495

 0.0000, 0.1021,  
0.7494

 162.6937,

 0.0000, 0.0000,

203.1835, 246.0216

0.0000

200.4636,  
247.5594, 297.7646

■ 19.7970, 29.1596,  
38.7674

■ 19.7970, 29.1596,  
38.7674

■ 19.7976, 29.1605,  
38.7680

■ 20.0364, 29.2816,  
38.8722

■ 20.4547, 29.4952,  
38.9849

■ 21.1284, 29.8404,  
39.1097

■ 22.0904, 30.3342,  
39.2482

■ 23.3685, 30.9911,  
39.4015

■ 24.9875, 31.8236,  
39.5710

■ 26.9697, 32.8434,  
39.7576

■ 29.3354, 34.0609,  
39.9624

■ 32.1035, 35.4858,  
40.1860

# Harmonies

## Analogous

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



19.8268, 29.1596, 25.2913



19.7970, 29.1596, 38.7674



21.7147, 29.1596, 53.8038

# Triad

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



19.7970, 29.1596, 38.7674



34.6125, 29.1596, 54.2189



30.2150, 29.1596, 12.6527

# Complementary

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



19.7970, 29.1596, 38.7674



15.3217, 7.8977, 0.7749

# 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.



34.7305, 29.1596, 16.7347



19.7970, 29.1596, 38.7674



37.4598, 29.1596, 39.2237

# Square

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



19.7970, 29.1596, 38.7674



30.0681, 29.1596, 64.3055



37.5053, 29.1596, 25.6348



25.4886, 29.1596, 12.5950



# Rectangle

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



19.7970, 29.1596, 38.7674



23.9804, 29.1596, 61.6281



37.5053, 29.1596, 25.6348



31.8192, 29.1596, 13.5332

# Sweetspot

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



19.7979, 29.1607, 38.7681



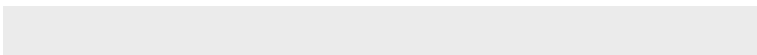
48.7269, 59.4980, 72.1439



13.3105, 26.5697, 4.4275



10.3245, 12.8386, 15.7419



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430



# Same Dimension

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



19.7979, 29.1607, 38.7681



35.9287, 52.9270, 70.3359



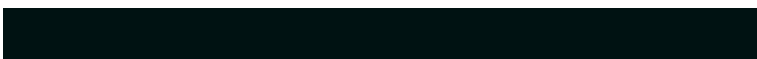
9.9297, 9.1374, 36.3636



7.2724, 8.0098, 9.0461



15.1806, 22.3586, 29.7315



0.3201, 0.4702, 0.6305



# Inverse Universe

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



15.3217, 7.8977, 0.7749



27.8043, 14.3320, 1.3760



18.1266, 13.5250, 1.6558



7.0771, 7.0873, 7.3925



11.7485, 6.0555, 0.6005



0.2479, 0.1276, 0.0178



# Previews

## White Background



This preview shows how the XYZ color 19.7970, 29.1596, 38.7674 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 19.7970, 29.1596, 38.7674 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 × Fail

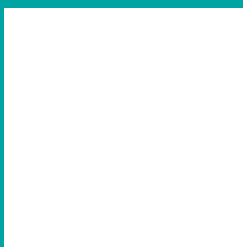
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 19.7970, 29.1596, 38.7674**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.7970, 29.1596, 38.7674.



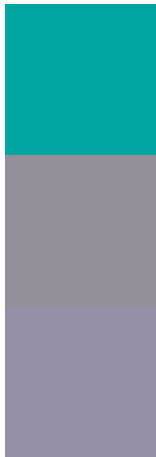
This preview shows how white text looks on a background with the XYZ color 19.7970, 29.1596,



# 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

19.7970, 29.1596, 38.7674

### Protanopia

27.7439, 28.6882, 33.3533

### Deuteranopia

29.4106, 28.7153, 40.5517



## Tritanopia

21.2539, 29.2429, 45.0817

# Trichromacy



## Original Color

19.7970, 29.1596, 38.7674

## Protanomaly

21.7607, 27.2027, 35.1141

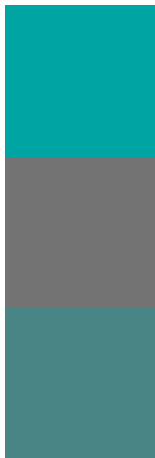
## Deuteranomaly

22.5217, 27.0161, 39.6249

## Tritanomaly

20.6414, 29.2454, 42.5872

# Monochromacy



## Original Color

19.7970, 29.1596, 38.7674

## Achromatopsia

16.2955, 17.1441, 18.6699

## Achromatomaly

15.3000, 19.8575, 24.8563

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.7970, 29.1596, 38.7674 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, 164, 162)` looks like.

```
.text, #text, p{  
    color:rgb(0, 164, 162)  
}
```

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, 164, 162) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 164, 162) }
```

## Border

The CSS property to change the border of an element to XYZ 19.7970, 29.1596, 38.7674 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, 164, 162) }
```



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

```
.border{ border-color:rgb(0, 164, 162) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 164, 162)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 164, 162); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 164, 162);  
box-shadow:4px 4px 4px 4px rgb(0, 164,  
162) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.7970, 29.1596, 38.7674 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 164, 162) }
```

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

```
.background{ background-color: rgb(0, 164,  
162) }
```

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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