

# Converting Colors

XYZ(18.9056, 28.8710, 43.1291)

Have a look what the booklet for  
XYZ(18.9056, 28.8710, 43.1291)  
contains.

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# Color

**XYZ(20.8058, 29.8505,  
43.1932)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00A5AB
RGB	0, 165, 171
RGB Percent	0%, 65%, 67%
CMY	0.9999, 0.3529, 0.3294
CMYK	1.00, 0.04, 0.00, 0.33
HSL	182°, 100%, 34%
HSV	182°, 100%, 67%
XYZ	20.8058, 29.8505, 43.1932
YIQ	116.3490, -100.2660, -33.1140

# Conversions

## Conversions Part 2

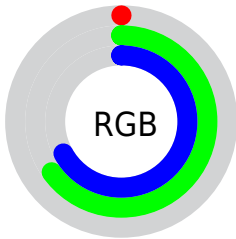
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 84, 171
Decimal	42411
CIELab	61.53, -32.82, -13.29
CIELCh	62, 35.411, 202.044
Yxy	29.8505, 0.2217, 0.3181
Android (android.graphics.Color)	4278232491 (0xFF00A5AB)
YUV	116.3490, 26.9429, -102.0381
Hunter-Lab	54.6356, -27.6377, -8.6279

# Details

The XYZ color **20.8058, 29.8505, 43.1932** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **16.8604, 8.7890, 0.8087**, and the grayscale version is **16.6527, 17.5199, 19.0792**.

A 20% lighter version of the original color is **44.3032, 59.6368, 81.1275**, and **9.1239, 12.9203, 19.4657** is the 20% darker color. If you saturate the color by 10%, you get **20.8061, 29.8510, 43.1938**, and if you desaturate by 10%, it is **21.1483, 30.1887, 43.2410**.

# Distribution



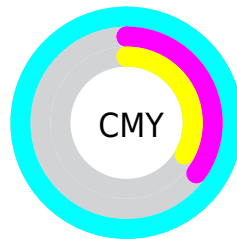
- Red (0%)
- Green (65%)
- Blue (67%)



- Red (0%)
- Yellow (33%)
- Blue (67%)



- Cyan (100%)
- Magenta (4%)
- Yellow (0%)
- Black (33%)




- Cyan (100%)
- Magenta (35%)
- Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.8058, 29.8505, 43.1932 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 20.8058, 29.8505, 43.1932 by changing the saturation by 10% instead.





 20.8058, 29.8505,  
43.1932


 20.8058, 29.8505,  
43.1932


248.9959,  
301.2070, 375.3502


 13.0938, 19.7251,  
29.7042


 44.2578, 59.4257,  
81.2918


 7.5706, 12.1954,  
19.3640


 60.7285, 79.6443,  
106.7385


 3.8709, 6.8769,  
11.7541


 80.8495, 103.9961,  
137.0082

 1.6294, 3.3852,  
6.4560

 104.9861,  
132.8655, 172.5194

 0.4114, 1.3360,  
3.0511

 133.5037,  
166.6369, 213.6907

 0.0000, 0.1688,  
1.1208

 166.7676,

 0.0000, 0.0000,

205.6947, 260.9405

0.0000

205.1432,  
250.4232, 314.6875

■ 20.8058, 29.8505,  
43.1932

■ 20.8058, 29.8505,  
43.1932

■ 20.8061, 29.8510,  
43.1938

■ 21.1483, 30.1887,  
43.2410

■ 21.6912, 30.6304,  
43.2976

■ 22.5153, 31.2178,  
43.3676

■ 23.6574, 31.9699,  
43.4525

■ 25.1486, 32.9027,  
43.5540

■ 27.0163, 34.0303,  
43.6732

■ 29.2851, 35.3655,  
43.8114

■ 31.9775, 36.9199,  
43.9695

■ 35.1146, 38.7042,  
44.1485

# Harmonies

## Analogous

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



20.3437, 29.8505, 29.0559



20.8058, 29.8505, 43.1932



23.1779, 29.8505, 57.4213

# Triad

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



20.8058, 29.8505, 43.1932



36.0948, 29.8505, 51.1202



29.6390, 29.8505, 13.0440

# Complementary

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



20.8058, 29.8505, 43.1932



16.8604, 8.7890, 0.8087

# 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.



34.2893, 29.8505, 16.0924



20.8058, 29.8505, 43.1932



38.2754, 29.8505, 36.2106

# Square

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



20.8058, 29.8505, 43.1932



31.8937, 29.8505, 62.8071



37.5806, 29.8505, 23.7390



25.1196, 29.8505, 13.9566



# Rectangle

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



20.8058, 29.8505, 43.1932



25.6811, 29.8505, 63.7897



37.5806, 29.8505, 23.7390



31.2446, 29.8505, 13.6011

# Sweetspot

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



20.8067, 29.8516, 43.1939



52.2050, 63.1957, 78.4484



14.5949, 29.1390, 5.0197



11.2547, 13.8662, 17.4709



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



20.8067, 29.8516, 43.1939



37.2280, 53.3924, 77.3455



10.2065, 8.6511, 39.6605



8.2119, 9.0232, 10.2615



15.6929, 22.5197, 32.5641



0.4438, 0.6410, 0.9083



# Inverse Universe

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



23.5869, 11.3754, 36.5509



42.2243, 20.3643, 65.3677



20.5545, 16.1772, 2.0401



8.3248, 8.1432, 10.0210



17.7847, 8.5764, 27.5754

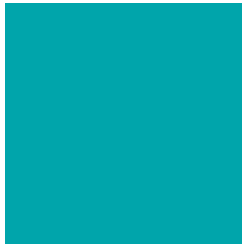


0.4984, 0.2401, 0.7865



# Previews

## White Background



This preview shows how the XYZ color 20.8058, 29.8505, 43.1932 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

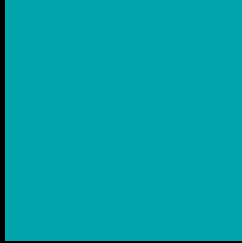
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 20.8058, 29.8505, 43.1932 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

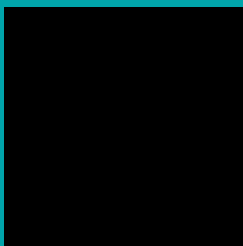
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

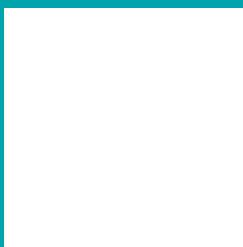
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 20.8058, 29.8505, 43.1932**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.8058, 29.8505, 43.1932.



This preview shows how white text looks on a background with the XYZ color 20.8058, 29.8505,



# 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

20.8058, 29.8505, 43.1932

### Protanopia

28.7243, 29.5737, 36.9952

### Deuteranopia

30.0225, 29.3770, 45.1623



## Tritanopia

21.5646, 29.9074, 46.2311

# Trichromacy



## Original Color

20.8058, 29.8505, 43.1932



## Protanomaly

22.7826, 28.1352, 38.8802



## Deuteranomaly

23.4843, 27.8921, 44.1904



## Tritanomaly

21.2103, 29.7476, 45.1814

# Monochromacy



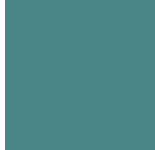
## Original Color

20.8058, 29.8505, 43.1932



## Achromatopsia

16.6002, 17.4647, 19.0191



## Achromatomaly

15.7931, 20.2836, 26.3753

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.8058, 29.8505, 43.1932 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, 165, 171)` looks like.

```
.text, #text, p{  
    color:rgb(0, 165, 171)  
}
```

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, 165, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 165, 171) }
```

## Border

The CSS property to change the border of an element to XYZ 20.8058, 29.8505, 43.1932 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, 165, 171) }
```



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

```
.border{ border-color:rgb(0, 165, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 165, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 165, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 165, 171);  
box-shadow:4px 4px 4px 4px rgb(0, 165,  
171) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.8058, 29.8505, 43.1932 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 165, 171) }
```

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

```
.background{ background-color: rgb(0, 165,  
171) }
```

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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