

# Converting Colors

XYZ(8.5288, 21.4909, 45.4383)

Have a look what the booklet for  
XYZ(8.5288, 21.4909, 45.4383)  
contains.

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# Color

**XYZ(19.9928, 27.2883,  
45.8084)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	009DB1
RGB	0, 157, 177
RGB Percent	0%, 62%, 69%
CMY	0.9999, 0.3843, 0.3059
CMYK	1.00, 0.11, 0.00, 0.31
HSL	187°, 100%, 35%
HSV	187°, 100%, 69%
XYZ	19.9928, 27.2883, 45.8084
YIQ	112.3370, -99.9920, -27.0640

# Conversions

## Conversions Part 2

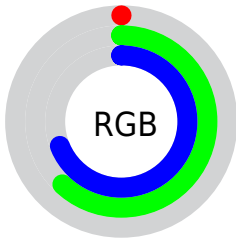
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 83, 177
Decimal	40369
CIELab	59.24, -26.95, -20.14
CIELCh	59, 33.644, 216.766
Yxy	27.2883, 0.2148, 0.2931
Android (android.graphics.Color)	4278230449 (0xFF009DB1)
YUV	112.3370, 31.8789, -98.5195
Hunter-Lab	52.2382, -23.1007, -15.4255

# Details

The XYZ color **19.9928, 27.2883, 45.8084** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **18.3826, 9.8488, 0.9331**, and the grayscale version is **15.4336, 16.2374, 17.6825**.

A 20% lighter version of the original color is **42.9708, 55.4031, 85.5199**, and **8.6897, 11.5584, 20.8418** is the 20% darker color. If you saturate the color by 10%, you get **19.9926, 27.2878, 45.8088**, and if you desaturate by 10%, it is **20.5790, 28.0975, 45.9342**.

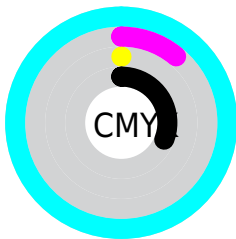
# Distribution



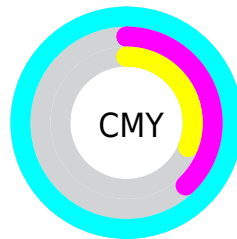
- Red (0%)
- Green (62%)
- Blue (69%)



- Red (0%)
- Yellow (33%)
- Blue (69%)



- Cyan (100%)
- Magenta (11%)
- Yellow (0%)
- Black (31%)



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

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.9928, 27.2883, 45.8084 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 19.9928, 27.2883, 45.8084 by changing the saturation by 10% instead.



■ 19.9928, 27.2883,  
45.8084

■ 19.9928, 27.2883,  
45.8084

■ 244.7104,  
289.0503, 386.2930

■ 12.4980, 17.7899,  
31.7471

■ 42.9091, 55.3462,  
85.2634

■ 7.1584, 10.7992,  
20.9052

■ 59.0614, 74.6744,  
111.4942

■ 3.6086, 5.9320,  
12.8641

■ 78.8303, 98.0479,  
142.6186

■ 1.4832, 2.8038,  
7.2054

■ 102.5811,  
125.8513, 179.0551

■ 0.3143, 1.0302,  
3.5105

■ 130.6791,  
158.4688, 221.2222

■ 0.0000, 0.0000,  
1.3609

■ 163.4898,

■ 0.0000, 0.0000,

196.2849, 269.5386

0.1109

201.3785,  
239.6839, 324.4226

■ 0.0000, 0.0000,  
0.0000

■ 19.9928, 27.2883,  
45.8084

■ 19.9928, 27.2883,  
45.8084

■ 19.9926, 27.2878,  
45.8088

■ 20.5790, 28.0975,  
45.9342

■ 21.3892, 29.0300,  
46.0715

■ 22.5089, 30.1303,  
46.2249

■ 23.9780, 31.4191,  
46.3962

■ 25.8305, 32.9140,  
46.5871

■ 28.0963, 34.6303,  
46.7990

■ 30.8023, 36.5819,  
47.0331

■ 33.9730, 38.7817,  
47.2905

■ 37.6313, 41.2413,  
47.5725

# Harmonies

## Analogous

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



18.7183, 27.2883, 32.5199



19.9928, 27.2883, 45.8084



22.8809, 27.2883, 56.4199

# Triad

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



19.9928, 27.2883, 45.8084



34.0836, 27.2883, 39.7969



24.9973, 27.2883, 12.1604

# Complementary

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



19.9928, 27.2883, 45.8084



18.3826, 9.8488, 0.9331

# 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.



29.2531, 27.2883, 13.1298



19.9928, 27.2883, 45.8084



34.8067, 27.2883, 27.0712

# Square

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



19.9928, 27.2883, 45.8084



31.0744, 27.2883, 52.3457



32.9554, 27.2883, 17.9121



21.3990, 27.2883, 14.7741



# Rectangle

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



19.9928, 27.2883, 45.8084



25.4840, 27.2883, 59.2855



32.9554, 27.2883, 17.9121



26.3948, 27.2883, 12.0921

# Sweetspot

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



19.9937, 27.2893, 45.8091



54.8871, 65.3195, 84.2104



15.8297, 31.4877, 5.8042



11.4460, 13.8353, 18.2115



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.



19.9937, 27.2893, 45.8091



35.7023, 48.6642, 82.0067



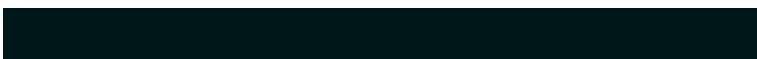
10.1782, 7.6583, 42.5372



8.6590, 9.4643, 10.8767



14.5131, 19.8266, 33.1990



0.4798, 0.6701, 1.0523



# Inverse Universe

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



24.2180, 11.7824, 32.8971



43.3198, 21.0792, 58.6388



23.3080, 19.6996, 2.5749



8.8078, 8.6299, 10.4865



17.5602, 8.5416, 23.9077



0.5642, 0.2734, 0.8137



# Previews

## White Background



This preview shows how the XYZ color 19.9928, 27.2883, 45.8084 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

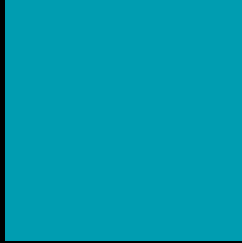
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 19.9928, 27.2883, 45.8084 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

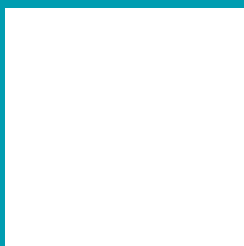
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 19.9928, 27.2883, 45.8084**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.9928, 27.2883, 45.8084.



This preview shows how white text looks on a background with the XYZ color 19.9928, 27.2883,



# 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

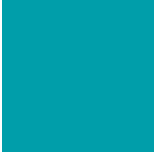
19.9928, 27.2883, 45.8084

### Protanopia

26.7243, 27.1213, 39.9028

### Deuteranopia

27.5648, 26.9523, 47.4656



## Tritanopia

19.4826, 27.3560, 42.2836

# Trichromacy



## Original Color

19.9928, 27.2883, 45.8084



## Protanomaly

21.6199, 25.7960, 41.8698



## Deuteranomaly

22.3549, 25.8315, 46.9878



## Tritanomaly

19.7697, 27.4708, 43.7956

# Monochromacy



## Original Color

19.9928, 27.2883, 45.8084



## Achromatopsia

15.4009, 16.2029, 17.6450



## Achromatomaly

14.7616, 18.5555, 26.0961

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.9928, 27.2883, 45.8084 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, 157, 177)` looks like.

```
.text, #text, p{  
    color:rgb(0, 157, 177)  
}
```

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, 157, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 157, 177) }
```

## Border

The CSS property to change the border of an element to XYZ 19.9928, 27.2883, 45.8084 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, 157, 177) }
```



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

```
.border{ border-color:rgb(0, 157, 177) }
```

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

Here you see how a box with a 4 pixel rgb(0, 157, 177) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 157, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 157, 177);  
box-shadow:4px 4px 4px 4px rgb(0, 157,  
177) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.9928, 27.2883, 45.8084 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 157, 177) }
```

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

```
.background{ background-color: rgb(0, 157,  
177) }
```

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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