

# Converting Colors

XYZ(22.4487, 29.8071, 54.0048)

Have a look what the booklet for  
XYZ(22.4487, 29.8071, 54.0048)  
contains.

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# Color

**XYZ(22.5012, 29.9560,  
53.8864)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00A3BF
RGB	0, 163, 191
RGB Percent	0%, 64%, 75%
CMY	0.9998, 0.3608, 0.2510
CMYK	1.00, 0.15, 0.00, 0.25
HSL	189°, 100%, 37%
HSV	189°, 100%, 75%
XYZ	22.5012, 29.9560, 53.8864
YIQ	117.4550, -106.1360, -25.8480

# Conversions

## Conversions Part 2

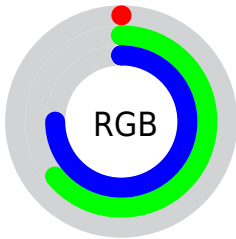
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 88, 191
Decimal	41919
CIELab	61.62, -25.24, -24.38
CIELCh	62, 35.093, 224.000
Yxy	29.9560, 0.2116, 0.2817
Android (android.graphics.Color)	4278231999 (0xFF00A3BF)
YUV	117.4550, 36.2577, -103.0080
Hunter-Lab	54.7321, -22.3970, -20.0614

# Details

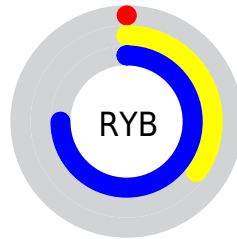
The XYZ color **22.5012, 29.9560, 53.8864** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **21.9026, 11.9090, 1.1455**, and the grayscale version is **16.9684, 17.8521, 19.4409**.

A 20% lighter version of the original color is **46.8969, 59.4549, 96.9999**, and **10.1998, 13.1750, 25.6724** is the 20% darker color. If you saturate the color by 10%, you get **22.5006, 29.9546, 53.8868**, and if you desaturate by 10%, it is **23.2758, 31.1023, 54.0674**.

# Distribution



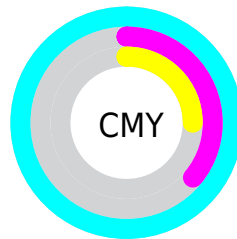
- Red (0%)
- Green (64%)
- Blue (75%)



- Red (0%)
- Yellow (35%)
- Blue (75%)



- Cyan (100%)
- Magenta (15%)
- Yellow (0%)
- Black (25%)



- Cyan (100%)
- Magenta (36%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.5012, 29.9560, 53.8864 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 22.5012, 29.9560, 53.8864 by changing the saturation by 10% instead.



■ 22.5012, 29.9560,  
53.8864

■ 22.5012, 29.9560,  
53.8864

257.7361,  
301.6993, 418.8390

■ 14.3443, 19.8052,  
38.1183

■ 47.0457, 59.5926,  
97.3621

■ 8.4438, 12.2535,  
25.7720

■ 64.1640, 79.8472,  
125.9069

■ 4.4344, 6.9166,  
16.4289

■ 85.0002, 104.2384,  
159.5475

■ 1.9507, 3.4100,  
9.6705

■ 109.9195,  
133.1508, 198.7027

■ 0.6060, 1.3493,  
5.0783

■ 139.2874,  
166.9687, 243.7909

■ 0.0000, 0.1789,  
2.2337

173.4692,

■ 0.0000, 0.0000,

206.0765, 295.2306

0.6937

212.8303,  
250.8586, 353.4405

■ 0.0000, 0.0000,  
0.0000

■ 22.5012, 29.9560,  
53.8864

■ 22.5012, 29.9560,  
53.8864

■ 22.5006, 29.9546,  
53.8868

■ 23.2758, 31.1023,  
54.0674

■ 24.3266, 32.4068,  
54.2638

■ 25.7503, 33.9201,  
54.4809

■ 27.5954, 35.6674,  
54.7209

■ 29.9030, 37.6698,  
54.9858

■ 32.7093, 39.9462,  
55.2773

■ 36.0469, 42.5134,  
55.5969

■ 39.9453, 45.3868,  
55.9460

■ 44.4322, 48.5806,  
56.3260

# Harmonies

## Analogous

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



20.6334, 29.9560, 39.2269



22.5012, 29.9560, 53.8864



26.0733, 29.9560, 64.0236

# Triad

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



22.5012, 29.9560, 53.8864



37.9826, 29.9560, 40.2135



26.3593, 29.9560, 13.5169

# Complementary

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



22.5012, 29.9560, 53.8864



21.9026, 11.9090, 1.1455

# 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.



31.0140, 29.9560, 13.6461



22.5012, 29.9560, 53.8864



38.0808, 29.9560, 26.7947

# Square

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



22.5012, 29.9560, 53.8864



35.1608, 29.9560, 54.7764



35.4160, 29.9560, 17.8418



22.6908, 29.9560, 17.4215



# Rectangle

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



22.5012, 29.9560, 53.8864



29.1019, 29.9560, 65.4951



35.4160, 29.9560, 17.8418



27.8518, 29.9560, 13.1317

# Sweetspot

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



22.5022, 29.9571, 53.8871



64.2392, 75.8997, 99.5435



18.8125, 37.3347, 7.1632



13.5243, 16.2240, 21.8040



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.



22.5022, 29.9571, 53.8871



40.1575, 53.3668, 96.4634



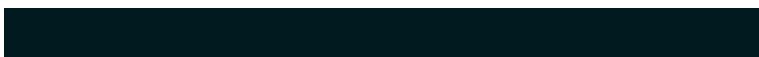
11.5985, 8.1498, 50.2526



9.6861, 10.5646, 12.2009



14.8328, 19.7774, 35.4286



0.6140, 0.8407, 1.3988



# Inverse Universe

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



28.0976, 13.7218, 35.8190



50.2496, 24.5452, 63.7718



28.3216, 24.7471, 3.2852



9.8682, 9.6716, 11.6949



18.4877, 9.0262, 23.6596



0.7408, 0.3602, 1.0144



# Previews

## White Background



This preview shows how the XYZ color 22.5012, 29.9560, 53.8864 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 22.5012, 29.9560, 53.8864 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

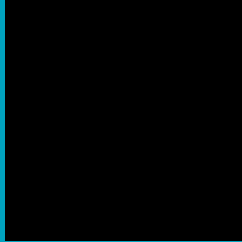
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# XYZ 22.5012, 29.9560, 53.8864

## Background



This preview shows how black text looks on a background with the XYZ color 22.5012, 29.9560, 53.8864.



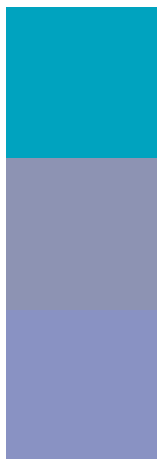
This preview shows how white text looks on a background with the XYZ color 22.5012, 29.9560,



# 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

22.5012, 29.9560, 53.8864

### Protanopia

29.5549, 29.7848, 46.8392

### Deuteranopia

30.4457, 29.8163, 55.7802

# Trichromacy



## Original Color

22.5012, 29.9560, 53.8864

## Protanomaly

24.1549, 28.3750, 49.0036

## Deuteranomaly

24.8963, 28.3778, 55.2042

# Monochromacy



## Original Color

22.5012, 29.9560, 53.8864

## Achromatopsia

16.9083, 17.7888, 19.3720

## Achromatomaly

16.3832, 20.5197, 29.4828

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.5012, 29.9560, 53.8864 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, 163, 191)` looks like.

```
.text, #text, p{  
    color:rgb(0, 163, 191)  
}
```

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, 163, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 163, 191) }
```

## Border

The CSS property to change the border of an element to XYZ 22.5012, 29.9560, 53.8864 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, 163, 191) }
```

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

```
.border{ border-color:rgb(0, 163, 191) }
```

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

Here you see how a box with a 4 pixel rgb(0, 163, 191) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 163, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 163, 191);  
box-shadow:4px 4px 4px 4px rgb(0, 163,  
191) }
```



# Background

The CSS property to change the background color of an element to XYZ 22.5012, 29.9560, 53.8864 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 163, 191) }
```

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

```
.background{ background-color: rgb(0, 163,  
191) }
```

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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