

# Converting Colors

XYZ(12.3509, 18.8036, 69.9141)

Have a look what the booklet for  
XYZ(12.3509, 18.8036, 69.9141)  
contains.

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# Color

**XYZ(22.1643, 23.8706,  
70.4571)**

# Conversions

## Conversions Part 1

Format	Color
Hex	008CDB
RGB	0, 140, 219
RGB Percent	0%, 55%, 86%
CMY	0.9998, 0.4510, 0.1412
CMYK	1.00, 0.36, 0.00, 0.14
HSL	202°, 100%, 43%
HSV	202°, 100%, 86%
XYZ	22.1643, 23.8706, 70.4571
YIQ	107.1460, -108.7990, -5.1110

# Conversions

## Conversions Part 2

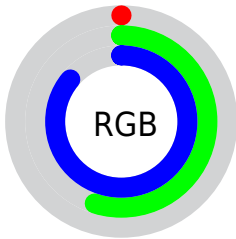
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 85, 219
Decimal	36059
CIELab	55.96, -2.41, -48.92
CIELCh	56, 48.983, 267.184
Yxy	23.8706, 0.1903, 0.2049
Android (android.graphics.Color)	4278226139 (0xFF008CDB)
YUV	107.1460, 55.1440, -93.9670
Hunter-Lab	48.8575, -4.5239, -51.3014

# Details

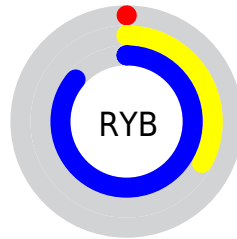
The XYZ color **22.1643, 23.8706, 70.4571** is a dark color, and the websafe version is hex **0099FF**. The color can be described as dark washed azure. A complement of this color would be **32.0143, 20.6610, 2.3024**, and the grayscale version is **13.8944, 14.6180, 15.9190**.

A 20% lighter version of the original color is **42.7135, 48.2435, 101.6684**, and **10.3519, 10.1265, 36.0593** is the 20% darker color. If you saturate the color by 10%, you get **22.1613, 23.8646, 70.4566**, and if you desaturate by 10%, it is **23.6910, 26.4341, 70.8720**.

# Distribution



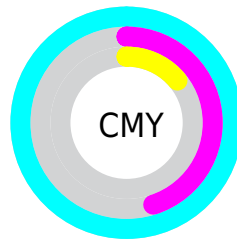
- Red (0%)
- Green (55%)
- Blue (86%)



- Red (0%)
- Yellow (33%)
- Blue (86%)



- Cyan (100%)
- Magenta (36%)
- Yellow (0%)
- Black (14%)



- Cyan (100%)
- Magenta (45%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.1643, 23.8706, 70.4571 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 22.1643, 23.8706, 70.4571 by changing the saturation by 10% instead.



■ 22.1643, 23.8706,  
70.4571

■ 22.1643, 23.8706,  
70.4571

256.0194,  
272.1656, 480.9858

■ 14.0950, 15.2377,  
51.4202

■ 46.4942, 49.8190,  
121.5476

■ 8.2689, 8.9864,  
36.1641

■ 63.4855, 67.9032,  
154.4383

■ 4.3207, 4.7323,  
24.2702

■ 84.1815, 89.9066,  
192.7839

■ 1.8851, 2.0911,  
15.3201

■ 108.9476,  
116.2136, 237.0030

■ 0.5682, 0.6596,  
8.8953

■ 138.1490,  
147.2086, 287.5143

■ 0.0000, 0.0000,  
4.5771

172.1512,

■ 0.0000, 0.0000,

183.2760, 344.7361

1.9470

211.3196,  
224.8002, 409.0871

■ 0.0000, 0.0000,  
0.5224

■ 0.0000, 0.0000,  
0.0000

■ 22.1643, 23.8706,  
70.4571

■ 22.1643, 23.8706,  
70.4571

■ 22.1613, 23.8646,  
70.4566

■ 23.6910, 26.4341,  
70.8720

■ 25.6748, 29.3585,  
71.3319

■ 28.2401, 32.7108,  
71.8437

■ 31.4571, 36.5293,  
72.4112

■ 35.3850, 40.8471,  
73.0376

■ 40.0762, 45.6932,  
73.7258

■ 45.5774, 51.0940,  
74.4783

■ 51.9316, 57.0737,  
75.2976

■ 59.1786, 63.6549,  
76.1859

# Harmonies

## Analogous

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



17.3472, 23.8706, 61.3969



22.1643, 23.8706, 70.4571



27.9619, 23.8706, 64.1186

# Triad

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



22.1643, 23.8706, 70.4571



33.6563, 23.8706, 14.3112



14.8005, 23.8706, 12.6226

# Complementary

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



22.1643, 23.8706, 70.4571



32.0143, 20.6610, 2.3024

# 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.



18.1233, 23.8706, 7.0983



22.1643, 23.8706, 70.4571



29.0265, 23.8706, 7.7541

# Square

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



22.1643, 23.8706, 70.4571



35.2069, 23.8706, 27.5329



23.2205, 23.8706, 5.7746



13.5566, 23.8706, 24.5078



# Rectangle

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



22.1643, 23.8706, 70.4571



31.5219, 23.8706, 53.0301



23.2205, 23.8706, 5.7746



15.6815, 23.8706, 10.1804

# Sweetspot

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



22.1653, 23.8713, 70.4577



64.1027, 71.8996, 105.1072



26.6611, 51.1952, 15.4403



12.9861, 14.6767, 22.3984



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

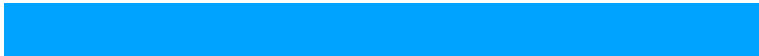


# Same Dimension

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



22.1653, 23.8713, 70.4577



31.1452, 33.4104, 99.4151



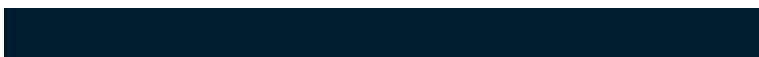
13.3282, 6.1972, 67.5120



13.0292, 13.9981, 16.6673



13.2478, 14.3650, 41.8129



0.9389, 1.0919, 2.7357



# Inverse Universe

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



33.9480, 16.9550, 26.2947



47.8499, 23.9039, 36.7371



46.8065, 50.2454, 7.2331



13.4046, 13.1909, 15.3919



20.1822, 10.0739, 15.8713



1.3482, 0.6689, 1.2425



# Previews

## White Background



This preview shows how the XYZ color 22.1643, 23.8706, 70.4571 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 22.1643, 23.8706, 70.4571 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

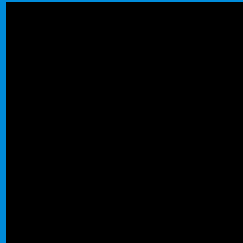
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 22.1643, 23.8706, 70.4571**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.1643, 23.8706, 70.4571.



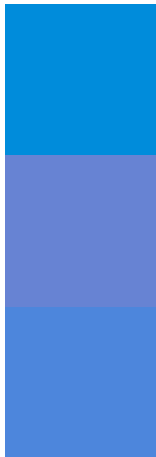
This preview shows how white text looks on a background with the XYZ color 22.1643, 23.8706,



# 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

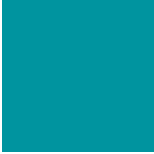
22.1643, 23.8706, 70.4571

### Protanopia

25.4677, 23.8193, 64.8833

### Deuteranopia

24.5039, 23.7953, 71.0116



## **Tritanopia**

16.8479, 23.6830, 36.4842

# Trichromacy



**Original Color**

22.1643, 23.8706, 70.4571

**Protanomaly**

22.9095, 23.0635, 66.8626

**Deuteranomaly**

22.9890, 23.4286, 71.0207

**Tritanomaly**

18.4659, 23.5870, 47.2956

# Monochromacy



**Original Color**

22.1643, 23.8706, 70.4571

**Achromatopsia**

13.9749, 14.7027, 16.0113

**Achromatomaly**

14.3260, 16.5607, 30.4584

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.1643, 23.8706, 70.4571 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, 140, 219)` looks like.

```
.text, #text, p{  
    color:rgb(0, 140, 219)  
}
```

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, 140, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 140, 219) }
```

## Border

The CSS property to change the border of an element to XYZ 22.1643, 23.8706, 70.4571 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, 140, 219) }
```



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

```
.border{ border-color:rgb(0, 140, 219) }
```

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

Here you see how a box with a 4 pixel rgb(0, 140, 219) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 140, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 140, 219);  
box-shadow:4px 4px 4px 4px rgb(0, 140,  
219) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.1643, 23.8706, 70.4571 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 140, 219) }
```

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

```
.background{ background-color: rgb(0, 140,  
219) }
```

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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