

# Converting Colors

XYZ(20.9043, 21.8216, 68.5855)

Have a look what the booklet for  
XYZ(20.9043, 21.8216, 68.5855)  
contains.

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# Color

**XYZ(20.9119, 21.7848,  
68.7484)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0085D9
RGB	0, 133, 217
RGB Percent	0%, 52%, 85%
CMY	0.9998, 0.4784, 0.1490
CMYK	1.00, 0.39, 0.00, 0.15
HSL	203°, 100%, 43%
HSV	203°, 100%, 85%
XYZ	20.9119, 21.7848, 68.7484
YIQ	102.8090, -106.2320, -2.0720

# Conversions

## Conversions Part 2

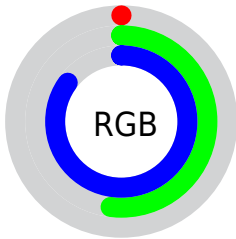
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 82, 217
Decimal	34265
CIELab	53.80, 0.99, -51.24
CIELCh	54, 51.247, 271.112
Yxy	21.7848, 0.1876, 0.1955
Android (android.graphics.Color)	4278224345 (0xFF0085D9)
YUV	102.8090, 56.2962, -90.1635
Hunter-Lab	46.6742, -1.7047, -54.6588

# Details

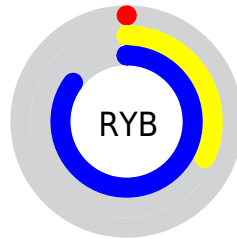
The XYZ color **20.9119, 21.7848, 68.7484** is a dark color, and the websafe version is hex **0099FF**. The color can be described as dark washed azure. A complement of this color would be **31.7901, 21.1005, 2.3988**, and the grayscale version is **12.7224, 13.3849, 14.5762**.

A 20% lighter version of the original color is **41.0884, 45.1626, 101.1594**, and **9.6033, 8.9139, 34.9326** is the 20% darker color. If you saturate the color by 10%, you get **20.9094, 21.7797, 68.7480**, and if you desaturate by 10%, it is **22.4343, 24.3464, 69.1631**.

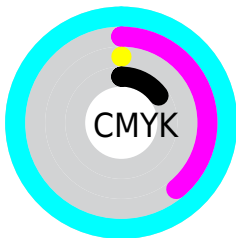
# Distribution



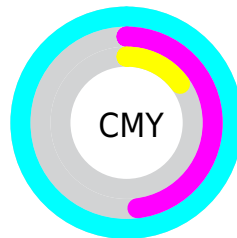
- Red (0%)
- Green (52%)
- Blue (85%)



- Red (0%)
- Yellow (32%)
- Blue (85%)



- Cyan (100%)
- Magenta (39%)
- Yellow (0%)
- Black (15%)



- Cyan (100%)
- Magenta (48%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.9119, 21.7848, 68.7484 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 20.9119, 21.7848, 68.7484 by changing the saturation by 10% instead.



■ 20.9119, 21.7848,  
68.7484

■ 20.9119, 21.7848,  
68.7484

249.5505,  
261.4204, 474.8130

■ 13.1717, 13.6989,  
50.0363

■ 44.4332, 46.3901,  
119.0865

■ 7.6247, 7.9115,  
35.0709

■ 60.9451, 63.6782,  
151.5496

■ 3.9055, 4.0384,  
23.4335

■ 81.1116, 84.8025,  
189.4334

■ 1.6488, 1.6951,  
14.7056

■ 105.2980,  
110.1473, 233.1566

■ 0.4239, 0.4205,  
8.4687

■ 133.8698,  
140.0971, 283.1375

■ 0.0000, 0.0000,  
4.3043

167.1922,

■ 0.0000, 0.0000,

175.0363, 339.7949

1.7937

205.6307,  
215.3493, 403.5472

■ 0.0000, 0.0000,  
0.4238

■ 0.0000, 0.0000,  
0.0000

■ 20.9119, 21.7848,  
68.7484

■ 20.9119, 21.7848,  
68.7484

■ 20.9094, 21.7797,  
68.7480

■ 22.4343, 24.3464,  
69.1631

■ 24.4150, 27.2837,  
69.6257

■ 26.9767, 30.6632,  
70.1429

■ 30.1883, 34.5232,  
70.7187

■ 34.1082, 38.8968,  
71.3563

■ 38.7878, 43.8131,  
72.0586

■ 44.2734, 49.2985,  
72.8283

■ 50.6071, 55.3776,  
73.6678

■ 57.8282, 62.0729,  
74.5796

# Harmonies

## Analogous

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



16.0032, 21.7848, 61.3754



20.9119, 21.7848, 68.7484



26.6686, 21.7848, 60.2732

# Triad

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



20.9119, 21.7848, 68.7484



31.1502, 21.7848, 11.2544



12.7544, 21.7848, 11.8857

# Complementary

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



20.9119, 21.7848, 68.7484



31.7901, 21.1005, 2.3988

# 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.



15.7055, 21.7848, 6.0851



20.9119, 21.7848, 68.7484



26.2496, 21.7848, 5.8506

# Square

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



20.9119, 21.7848, 68.7484



33.1889, 21.7848, 23.1365



20.5011, 21.7848, 4.4913



11.8261, 21.7848, 24.3131



# Rectangle

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



20.9119, 21.7848, 68.7484



30.0822, 21.7848, 48.2836



20.5011, 21.7848, 4.4913



13.5134, 21.7848, 9.3284

# Sweetspot

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



20.9128, 21.7855, 68.7490



63.5532, 70.8005, 104.9240



26.3834, 50.2543, 16.5368



12.8551, 14.4146, 22.3547



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

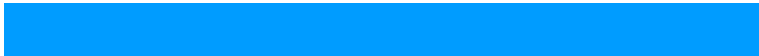


# Same Dimension

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



20.9128, 21.7855, 68.7490



29.9834, 31.0868, 99.0278



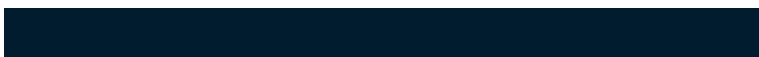
12.8806, 5.7210, 66.0716



12.9996, 13.9389, 16.6575



12.7627, 13.3948, 41.6512



0.9095, 1.0331, 2.7259



# Inverse Universe

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



32.8498, 16.4464, 23.6338



47.2634, 23.6694, 33.6490



47.3974, 52.3152, 7.6012



13.3896, 13.1850, 15.3131



19.9373, 9.9760, 14.5819



1.3334, 0.6630, 1.1644



# Previews

## White Background



This preview shows how the XYZ color 20.9119, 21.7848, 68.7484 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 20.9119, 21.7848, 68.7484 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

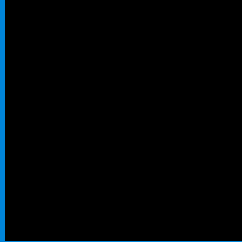
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# XYZ 20.9119, 21.7848, 68.7484

## Background



This preview shows how black text looks on a background with the XYZ color 20.9119, 21.7848, 68.7484.



This preview shows how white text looks on a background with the XYZ color 20.9119, 21.7848,



# 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

20.9119, 21.7848, 68.7484

### Protanopia

23.5826, 21.7001, 63.9184

### Deuteranopia

22.4918, 21.7866, 69.3495



## **Tritanopia**

15.3405, 21.6130, 33.0690

# Trichromacy



**Original Color**

20.9119, 21.7848, 68.7484

**Protanomaly**

21.5929, 21.2031, 65.9053

**Deuteranomaly**

21.4742, 21.4586, 69.3398

**Tritanomaly**

17.0691, 21.5998, 44.3438

# Monochromacy



**Original Color**

20.9119, 21.7848, 68.7484

**Achromatopsia**

12.8919, 13.5633, 14.7705

**Achromatomaly**

13.2981, 15.2065, 28.6198

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.9119, 21.7848, 68.7484 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, 133, 217)` looks like.

```
.text, #text, p{  
    color:rgb(0, 133, 217)  
}
```

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, 133, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 133, 217) }
```

## Border

The CSS property to change the border of an element to XYZ 20.9119, 21.7848, 68.7484 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, 133, 217) }
```



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

```
.border{ border-color:rgb(0, 133, 217) }
```

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

Here you see how a box with a 4 pixel rgb(0, 133, 217) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 133, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 133, 217);  
box-shadow:4px 4px 4px 4px rgb(0, 133,  
217) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.9119, 21.7848, 68.7484 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 133, 217) }
```

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

```
.background{ background-color: rgb(0, 133,  
217) }
```

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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