

# Converting Colors

XYZ(23.0832, 22.3108, 71.1401)

Have a look what the booklet for  
XYZ(23.0832, 22.3108, 71.1401)  
contains.

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# Color

**XYZ(22.9508, 22.1893,  
70.7835)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	3F82DC
RGB	63, 130, 220
RGB Percent	25%, 51%, 86%
CMY	0.7529, 0.4902, 0.1373
CMYK	0.71, 0.41, 0.00, 0.14
HSL	214°, 69%, 55%
HSV	214°, 71%, 86%
XYZ	22.9508, 22.1893, 70.7835
YIQ	120.2270, -68.8220, 13.7860

# Conversions

## Conversions Part 2

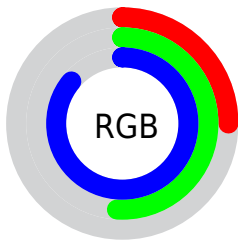
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	63, 110, 220
Decimal	4162268
CIE Lab	54.23, 8.65, -52.17
CIE LCh	54, 52.887, 279.415
Yxy	22.1893, 0.1980, 0.1914
Android (android.graphics.Color)	4282352348 (0xFF3F82DC)
YUV	120.2270, 49.1881, -50.1881
Hunter-Lab	47.1055, 4.5343, -56.1187

# Details

The XYZ color **22.9508, 22.1893, 70.7835** is a dark color, and the websafe version is hex **3399FF**. The color can be described as middle muted azure. A complement of this color would be **41.8059, 38.3607, 9.9051**, and the grayscale version is **17.7897, 18.7162, 20.3819**.

A 20% lighter version of the original color is **43.6800, 45.2651, 101.0426**, and **9.6433, 8.5652, 36.2670** is the 20% darker color. If you saturate the color by 10%, you get **20.2399, 18.4523, 70.2056**, and if you desaturate by 10%, it is **26.4302, 26.6282, 71.4574**.

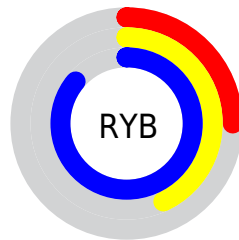
# Distribution



Red (25%)

Green (51%)

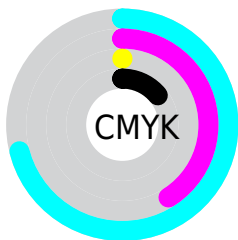
Blue (86%)



Red (25%)

Yellow (43%)

Blue (86%)

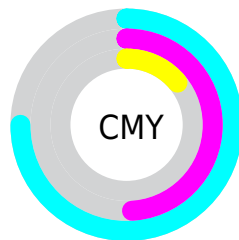


Cyan (71%)

Magenta (41%)

Yellow (0%)

Black (14%)



Cyan (75%)

Magenta (49%)

Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.9508, 22.1893, 70.7835 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 22.9508, 22.1893, 70.7835 by changing the saturation by 10% instead.



■ 22.9508, 22.1893,  
70.7835

■ 22.9508, 22.1893,  
70.7835

260.0122,  
263.5333, 482.1595

■ 14.6777, 13.9961,  
51.6848

■ 47.7798, 47.0587,  
122.0170

■ 8.6783, 8.1179,  
36.3734

■ 65.0663, 64.5036,  
154.9888

■ 4.5874, 4.1705,  
24.4307

■ 86.0881, 85.8012,  
193.4221

■ 2.0395, 1.7694,  
15.4383

■ 111.2104,  
111.3359, 237.7354

■ 0.6560, 0.4680,  
8.9775

■ 140.7986,  
141.4920, 288.3473

■ 0.0000, 0.0000,  
4.6299

175.2181,

■ 0.0000, 0.0000,

176.6540, 345.6762

1.9769

214.8342,  
217.2063, 410.1408

■ 0.0000, 0.0000,  
0.5410

■ 0.0000, 0.0000,  
0.0000

■ 22.9508, 22.1893,  
70.7835

■ 22.9508, 22.1893,  
70.7835

■ 20.2399, 18.4523,  
70.2056

■ 26.4302, 26.6282,  
71.4574

■ 18.2160, 15.3636,  
69.7160

■ 30.7420, 31.8117,  
72.2307

■ 16.9102, 13.1511,  
69.3578

■ 35.9460, 37.7808,  
73.1085

■ 42.0952, 44.5723,  
74.0953

■ 49.2382, 52.2204,  
75.1951

■ 57.4200, 60.7571,  
76.4116

■ 66.6829, 70.2125,  
77.7485

■ 77.0665, 80.6155,  
79.2092

■ 86.3622, 90.8351,  
80.6918

# Harmonies

## Analogous

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



17.4375, 22.1893, 67.5681



22.9508, 22.1893, 70.7835



28.9164, 22.1893, 57.8004

# Triad

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



22.9508, 22.1893, 70.7835



30.8350, 22.1893, 9.1185



12.3421, 22.1893, 14.6513

# Complementary

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



22.9508, 22.1893, 70.7835



41.8059, 38.3607, 9.9051

# 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.



14.8213, 22.1893, 7.0270



22.9508, 22.1893, 70.7835



25.2205, 22.1893, 4.9899

# Square

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



22.9508, 22.1893, 70.7835



33.9833, 22.1893, 19.3426



19.3331, 22.1893, 4.4532



11.9566, 22.1893, 29.7182



# Rectangle

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



22.9508, 22.1893, 70.7835



32.1097, 22.1893, 44.1138



19.3331, 22.1893, 4.4532



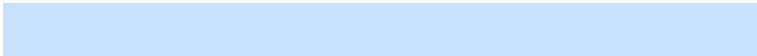
12.9334, 22.1893, 11.3668

# Sweetspot

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



22.9517, 22.1900, 70.7841



68.9951, 73.1731, 105.0951



33.3092, 54.5100, 38.4595



14.1408, 14.9976, 22.3995



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.



22.9517, 22.1900, 70.7841



26.6542, 23.3638, 97.7126



17.4804, 10.1587, 68.7502



12.7932, 13.5262, 16.5887



10.0299, 7.9292, 40.7403



0.7341, 0.6823, 2.6675



# Inverse Universe

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



35.3229, 20.3837, 23.1922



45.8429, 24.0961, 23.1011



52.9370, 65.1792, 14.4950



13.2855, 13.1433, 14.7646



18.5580, 9.4242, 7.3182

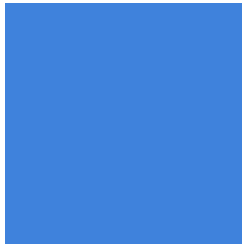


1.2448, 0.6276, 0.6982



# Previews

## White Background



This preview shows how the XYZ color 22.9508, 22.1893, 70.7835 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

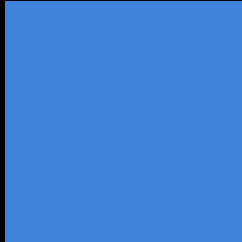
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 22.9508, 22.1893, 70.7835 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

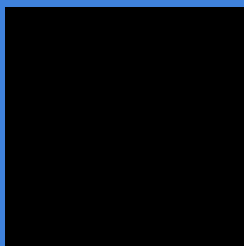
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

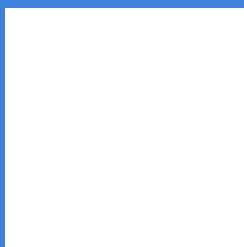
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 22.9508, 22.1893, 70.7835**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.9508, 22.1893, 70.7835.



This preview shows how white text looks on a background with the XYZ color 22.9508, 22.1893,



# 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

22.9508, 22.1893, 70.7835

### Protanopia

24.1699, 22.1037, 67.9583

### Deuteranopia

22.8875, 22.1567, 70.7805



## Tritanopia

15.7389, 22.0115, 34.4295

# Trichromacy



## Original Color

22.9508, 22.1893, 70.7835

## Protanomaly

23.5071, 21.9378, 68.6411

## Deuteranomaly

22.8875, 22.1567, 70.7805

## Tritanomaly

17.5785, 21.6138, 45.8932

# Monochromacy



## Original Color

22.9508, 22.1893, 70.7835

## Achromatopsia

17.8524, 18.7821, 20.4537

## Achromatomaly

18.3540, 19.4683, 34.2429

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.9508, 22.1893, 70.7835 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(63, 130, 220)` looks like.

```
.text, #text, p{  
    color:rgb(63, 130, 220)  
}
```

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(63, 130, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 130, 220) }
```

## Border

The CSS property to change the border of an element to XYZ 22.9508, 22.1893, 70.7835 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(63, 130, 220) }
```



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

```
.border{ border-color:rgb(63, 130, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 130, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 130, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 130, 220);  
box-shadow:4px 4px 4px 4px rgb(63, 130,  
220) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.9508, 22.1893, 70.7835 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 130, 220) }
```

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

```
.background{ background-color: rgb(63, 130,  
220) }
```

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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