

# Converting Colors

XYZ(23.0022, 22.0381, 71.4714)

Have a look what the booklet for  
XYZ(23.0022, 22.0381, 71.4714)  
contains.

<b>XYZ(22.9513, 21.9777, 71.4391)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(22.9513, 21.9777,  
71.4391)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	3F81DD
RGB	63, 129, 221
RGB Percent	25%, 51%, 87%
CMY	0.7529, 0.4941, 0.1333
CMYK	0.71, 0.42, 0.00, 0.13
HSL	215°, 70%, 56%
HSV	215°, 71%, 87%
XYZ	22.9513, 21.9777, 71.4391
YIQ	119.7540, -68.8680, 14.6200

# Conversions

## Conversions Part 2

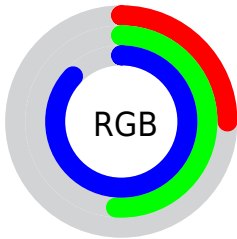
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	63, 110, 221
Decimal	4162013
CIE Lab	54.00, 9.62, -53.09
CIE LCh	54, 53.958, 280.269
Yxy	21.9777, 0.1972, 0.1889
Android (android.graphics.Color)	4282352093 (0xFF3F81DD)
YUV	119.7540, 49.9143, -49.7733
Hunter-Lab	46.8804, 5.3479, -57.5333

# Details

The XYZ color **22.9513, 21.9777, 71.4391** 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 **42.4396, 39.1775, 10.0294**, and the grayscale version is **17.6370, 18.5555, 20.2069**.

A 20% lighter version of the original color is **43.4760, 44.8569, 100.9746**, and **9.7340, 8.6015, 36.7445** is the 20% darker color. If you saturate the color by 10%, you get **20.2227, 18.2113, 70.8564**, and if you desaturate by 10%, it is **26.4613, 26.4644, 72.1206**.

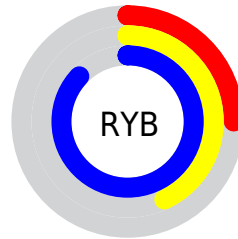
# Distribution



Red (25%)

Green (51%)

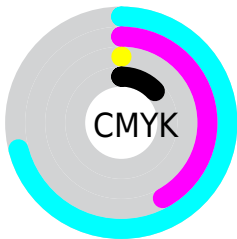
Blue (87%)



Red (25%)

Yellow (43%)

Blue (87%)

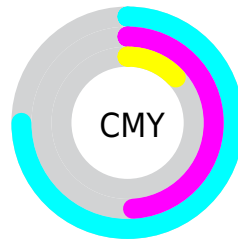


Cyan (71%)

Magenta (42%)

Yellow (0%)

Black (13%)



Cyan (75%)

Magenta (49%)

Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.9513, 21.9777, 71.4391 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 22.9513, 21.9777, 71.4391 by changing the saturation by 10% instead.



■ 22.9513, 21.9777,  
71.4391

■ 22.9513, 21.9777,  
71.4391

260.0148,  
262.4298, 484.5119

■ 14.6780, 13.8405,  
52.2166

■ 47.7806, 46.7091,  
122.9590

■ 8.6786, 8.0098,  
36.7943

■ 65.0673, 64.0722,  
156.0935

■ 4.5876, 4.1012,  
24.7537

■ 86.0893, 85.2793,  
194.7024

■ 2.0396, 1.7304,  
15.6763

■ 111.2119,  
110.7149, 239.2043

■ 0.6561, 0.4432,  
9.1435

■ 140.8003,  
140.7633, 290.0176

■ 0.0000, 0.0000,  
4.7368

175.2200,

■ 0.0000, 0.0000,

175.8090, 347.5610

2.0377

214.8364,  
216.2364, 412.2529

■ 0.0000, 0.0000,  
0.5783

■ 0.0000, 0.0000,  
0.0000

■ 22.9513, 21.9777,  
71.4391

■ 22.9513, 21.9777,  
71.4391

■ 20.2227, 18.2113,  
70.8564

■ 26.4613, 26.4644,  
72.1206

■ 18.1925, 15.1099,  
70.3648

■ 30.8181, 31.7154,  
72.9045

■ 16.9052, 12.9284,  
70.0116

■ 36.0823, 37.7729,  
73.7963

■ 42.3080, 44.6749,  
74.8004

■ 49.5448, 52.4566,  
75.9210

■ 57.8386, 61.1509,  
77.1620

■ 67.2322, 70.7890,  
78.5273

■ 77.7662, 81.4003,  
80.0203

■ 86.8903, 91.6786,  
81.5233

# Harmonies

## Analogous

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



17.3297, 21.9777, 68.6358



22.9513, 21.9777, 71.4391



29.0022, 21.9777, 57.7215

# Triad

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



22.9513, 21.9777, 71.4391



30.6596, 21.9777, 8.6022



12.0166, 21.9777, 14.6479

# Complementary

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



22.9513, 21.9777, 71.4391



42.4396, 39.1775, 10.0294

# 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.



14.4506, 21.9777, 6.8450



22.9513, 21.9777, 71.4391



24.9054, 21.9777, 4.6495

# Square

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



22.9513, 21.9777, 71.4391



33.9701, 21.9777, 18.6523



18.9544, 21.9777, 4.2048



11.6887, 21.9777, 30.1196



# Rectangle

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



22.9513, 21.9777, 71.4391



32.2097, 21.9777, 43.6359



18.9544, 21.9777, 4.2048



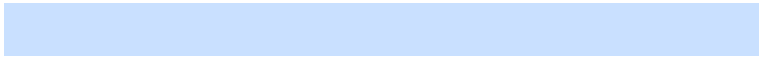
12.5908, 21.9777, 11.2816

# Sweetspot

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



22.9522, 21.9784, 71.4397



68.8651, 72.9130, 105.0518



33.6189, 55.0551, 38.7923



14.1101, 14.9361, 22.3892



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.



22.9522, 21.9784, 71.4397



26.3951, 22.8457, 97.6262



17.6184, 10.2145, 69.4501



12.7833, 13.5064, 16.5854



9.9267, 7.7227, 40.7058



0.7270, 0.6680, 2.6651



# Inverse Universe

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



35.5596, 20.5135, 22.8545



45.7121, 24.0438, 22.4124



53.4660, 65.8427, 14.5952



13.2805, 13.1413, 14.7384



18.5058, 9.4034, 7.0438

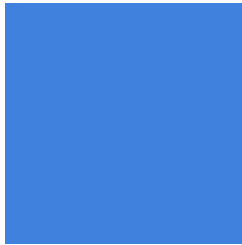


1.2412, 0.6261, 0.6792



# Previews

## White Background



This preview shows how the XYZ color 22.9513, 21.9777, 71.4391 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 22.9513, 21.9777, 71.4391 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

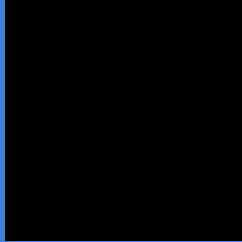
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

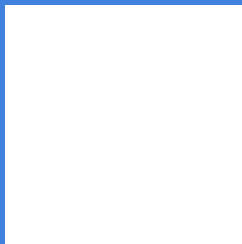
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 22.9513, 21.9777, 71.4391**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.9513, 21.9777, 71.4391.



This preview shows how white text looks on a background with the XYZ color 22.9513, 21.9777,



# 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

22.9513, 21.9777, 71.4391

### Protanopia

23.9778, 21.8008, 68.5899

### Deuteranopia

22.7211, 22.0556, 71.4662



## Tritanopia

15.6552, 21.9780, 33.9889

# Trichromacy



## Original Color

22.9513, 21.9777, 71.4391

## Protanomaly

23.4240, 21.6891, 69.2815

## Deuteranomaly

22.8374, 22.1155, 71.4717

## Tritanomaly

17.4777, 21.5735, 45.3624

# Monochromacy



## Original Color

22.9513, 21.9777, 71.4391

## Achromatopsia

17.8524, 18.7821, 20.4537

## Achromatomaly

18.3144, 19.2529, 34.6492

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.9513, 21.9777, 71.4391 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, 129, 221)` looks like.

```
.text, #text, p{  
    color:rgb(63, 129, 221)  
}
```

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, 129, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 129, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 22.9513, 21.9777, 71.4391 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, 129, 221) }
```



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

```
.border{ border-color:rgb(63, 129, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 129, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 129, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 129, 221);  
box-shadow:4px 4px 4px 4px rgb(63, 129,  
221) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.9513, 21.9777, 71.4391 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 129, 221) }
```

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

```
.background{ background-color: rgb(63, 129,  
221) }
```

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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