

# Converting Colors

XYZ(23.1799, 23.7387, 16.0001)

Have a look what the booklet for  
XYZ(23.1799, 23.7387, 16.0001)  
contains.

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# Color

**XYZ(23.0922, 23.6759,  
15.9232)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	968366
RGB	150, 131, 102
RGB Percent	59%, 51%, 40%
CMY	0.4118, 0.4863, 0.6000
CMYK	0.00, 0.13, 0.32, 0.41
HSL	36°, 19%, 49%
HSV	36°, 32%, 59%
XYZ	23.0922, 23.6759, 15.9232
YIQ	133.3750, 20.6330, -4.9910

# Conversions

## Conversions Part 2

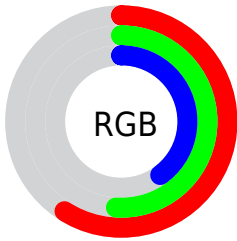
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	133, 150, 102
Decimal	9864038
CIE <sub>Lab</sub>	55.76, 2.68, 18.36
CIE <sub>LCh</sub>	56, 18.550, 81.708
Yxy	23.6759, 0.3683, 0.3777
Android (android.graphics.Color)	4288054118 (0xFF968366)
YUV	133.3750, -15.4679, 14.5801
Hunter-Lab	48.6579, -0.4383, 14.6580

# Details

The XYZ color **23.0922, 23.6759, 15.9232** is a dark color, and the websafe version is hex **999966**. A complement of this color would be **17.8217, 18.7009, 31.5245**, and the grayscale version is **22.4810, 23.6517, 25.7567**.

A 20% lighter version of the original color is **48.0671, 49.5600, 37.1696**, and **8.7439, 8.9071, 4.8728** is the 20% darker color. If you saturate the color by 10%, you get **21.6402, 21.8565, 12.0953**, and if you desaturate by 10%, it is **24.7258, 25.6427, 20.4764**.

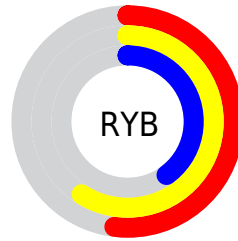
# Distribution



Red (59%)

Green (51%)

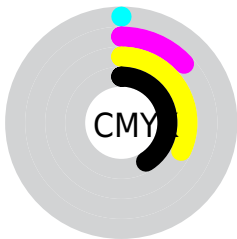
Blue (40%)



Red (52%)

Yellow (59%)

Blue (40%)

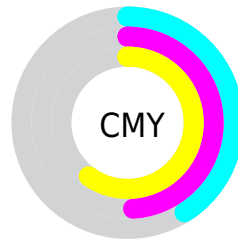


Cyan (0%)

Magenta (13%)

Yellow (32%)

Black (41%)



Cyan (41%)

Magenta (49%)

Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.0922, 23.6759, 15.9232 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 23.0922, 23.6759, 15.9232 by changing the saturation by 10% instead.



■ 23.0922, 23.6759,  
15.9232

■ 23.0922, 23.6759,  
15.9232

260.7247,  
271.1778, 240.7183

■ 14.7827, 15.0934,  
9.3161

■ 48.0102, 49.5008,  
37.2298

■ 8.7523, 8.8849,  
4.8483

■ 65.3494, 67.5120,  
52.7663

■ 4.6358, 4.6662,  
2.1013

■ 86.4292, 89.4348,  
72.1163

■ 2.0677, 2.0528,  
0.6166

■ 111.6150,  
115.6537, 95.6984

■ 0.6716, 0.6379,  
0.0000

141.2721,  
146.5530, 123.9311

■ 0.0000, 0.0000,  
0.0000

175.7658,

182.5173, 157.2330

215.4616,  
223.9307, 196.0225

■ 23.0922, 23.6759,  
15.9232

■ 23.0922, 23.6759,  
15.9232

■ 21.6402, 21.8565,  
12.0953

■ 24.7258, 25.6427,  
20.4764

■ 20.3598, 20.1768,  
8.9525

■ 26.5466, 27.7579,  
25.7889

■ 19.2431, 18.6332,  
6.4534

■ 28.5621, 30.0264,  
31.8946

■ 18.2802, 17.2205,  
4.5510

■ 30.7791, 32.4521,  
38.8246

■ 17.4605, 15.9331,  
3.1921

■ 33.2036, 35.0385,  
46.6087

■ 16.7710, 14.7646,  
2.3138

■ 35.8419, 37.7891,  
55.2748

■ 16.2877, 13.9040,  
1.8253

■ 38.6994, 40.7073,  
64.8498

■ 41.7817, 43.7962,  
75.3594

■ 45.0942, 47.0591,  
86.8282

# Harmonies

## Analogous

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



25.1065, 23.6759, 17.7073



23.0922, 23.6759, 15.9232



21.0387, 23.6759, 16.4371

# Triad

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



23.0922, 23.6759, 15.9232



18.9474, 23.6759, 30.3100



25.8328, 23.6759, 33.6525

# Complementary

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



23.0922, 23.6759, 15.9232



17.8217, 18.7009, 31.5245

# 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.



24.0342, 23.6759, 38.1222



23.0922, 23.6759, 15.9232



20.0865, 23.6759, 35.9926

# Square

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



23.0922, 23.6759, 15.9232



18.7299, 23.6759, 24.1427



21.9244, 23.6759, 39.0395



26.7521, 23.6759, 27.4877



# Rectangle

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



23.0922, 23.6759, 15.9232



19.9156, 23.6759, 18.0554



21.9244, 23.6759, 39.0395



25.3059, 23.6759, 35.4404

# Sweetspot

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



23.0928, 23.6770, 15.9237



47.4642, 49.6880, 47.3485



20.7927, 17.3724, 20.4111



10.4227, 10.9021, 10.2061



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896



# Same Dimension

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



23.0928, 23.6770, 15.9237



38.9894, 39.5885, 23.4054



25.0170, 28.8099, 16.8130



6.0747, 6.3632, 6.1485



13.5405, 11.5954, 1.5245



0.1946, 0.1996, 0.0283



# Inverse Universe

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



17.8217, 18.7009, 31.5245



28.2777, 29.4807, 55.1212



16.2960, 14.8185, 30.8555



5.6766, 5.9871, 7.3262



5.9081, 4.5111, 24.4904



0.0997, 0.1100, 0.3089



# Previews

## White Background



This preview shows how the XYZ color 23.0922, 23.6759, 15.9232 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 23.0922, 23.6759, 15.9232 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

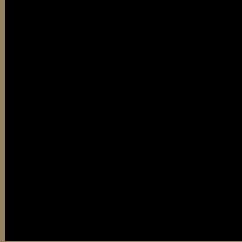
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 23.0922, 23.6759, 15.9232**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.0922, 23.6759, 15.9232.



This preview shows how white text looks on a background with the XYZ color 23.0922, 23.6759,



# 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

23.0922, 23.6759, 15.9232

### Protanopia

22.3010, 23.8691, 16.2638

### Deuteranopia

24.0720, 23.5857, 16.1157



## Tritanopia

25.2312, 23.5693, 26.5121

# Trichromacy



## Original Color

23.0922, 23.6759, 15.9232

## Protanomaly

22.6898, 23.8653, 16.2426

## Deuteranomaly

23.6249, 23.5498, 16.1324

## Tritanomaly

24.4941, 23.6659, 22.3458

# Monochromacy



## Original Color

23.0922, 23.6759, 15.9232

## Achromatopsia

22.2940, 23.4551, 25.5426

## Achromatomaly

22.4116, 23.3966, 21.7471

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.0922, 23.6759, 15.9232 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(150, 131, 102)` looks like.

```
.text, #text, p{  
    color:rgb(150, 131, 102)  
}
```

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(150, 131, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 131, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 23.0922, 23.6759, 15.9232 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(150, 131, 102) }
```



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

```
.border{ border-color:rgb(150, 131, 102) }
```

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

Here you see how a box with a 4 pixel rgb(150, 131, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 131, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 131, 102);  
box-shadow:4px 4px 4px 4px rgb(150, 131,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.0922, 23.6759, 15.9232 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 131, 102) }
```

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

```
.background{ background-color: rgb(150,  
131, 102) }
```

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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