

# Converting Colors

XYZ(23.9010, 24.3671, 40.4898)

Have a look what the booklet for  
XYZ(23.9010, 24.3671, 40.4898)  
contains.

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# Color

**XYZ(23.9002, 24.3661,  
40.4892)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7B87A8
RGB	123, 135, 168
RGB Percent	48%, 53%, 66%
CMY	0.5176, 0.4706, 0.3412
CMYK	0.27, 0.20, 0.00, 0.34
HSL	224°, 21%, 57%
HSV	224°, 27%, 66%
XYZ	23.9002, 24.3661, 40.4892
YIQ	135.1740, -17.7450, 7.7190

# Conversions

## Conversions Part 2

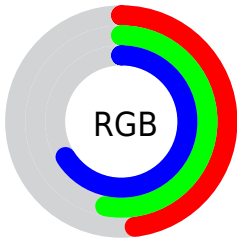
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	123, 132, 168
Decimal	8095656
CIE <sub>Lab</sub>	56.45, 3.30, -18.90
CIE <sub>LCh</sub>	56, 19.188, 279.890
Yxy	24.3661, 0.2693, 0.2745
Android (android.graphics.Color)	4286285736 (0xFF7B87A8)
YUV	135.1740, 16.1832, -10.6766
Hunter-Lab	49.3620, 0.0429, -14.0792

# Details

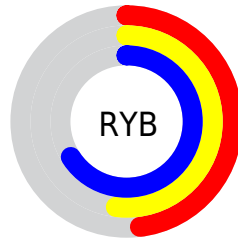
The XYZ color **23.9002, 24.3661, 40.4892** is a dark color, and the websafe version is hex **9999CC**. A complement of this color would be **31.6122, 33.5317, 23.5456**, and the grayscale version is **23.0408, 24.2408, 26.3982**.

A 20% lighter version of the original color is **49.2070, 50.5243, 76.9707**, and **9.1485, 9.1744, 17.8117** is the 20% darker color. If you saturate the color by 10%, you get **20.0796, 19.9913, 39.8466**, and if you desaturate by 10%, it is **28.3337, 29.3533, 41.2186**.

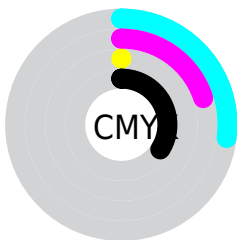
# Distribution



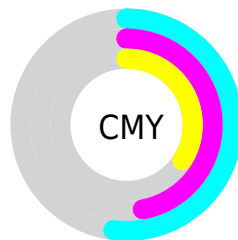
- Red (48%)
- Green (53%)
- Blue (66%)



- Red (48%)
- Yellow (52%)
- Blue (66%)



- Cyan (27%)
- Magenta (20%)
- Yellow (0%)
- Black (34%)



- Cyan (52%)
- Magenta (47%)
- Yellow (34%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.9002, 24.3661, 40.4892 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 23.9002, 24.3661, 40.4892 by changing the saturation by 10% instead.



■ 23.9002, 24.3661,  
40.4892

■ 23.9002, 24.3661,  
40.4892

264.7654,  
274.6662, 363.7944

■ 15.3839, 15.6054,  
27.6035

■ 49.3232, 50.6270,  
77.1531

■ 9.1774, 9.2454,  
17.7905

■ 66.9606, 68.8959,  
101.7684

■ 4.9151, 4.9016,  
10.6318

■ 88.3691, 91.1031,  
131.1306

■ 2.2318, 2.1896,  
5.7088

113.9140,  
117.6329, 165.6582

■ 0.7594, 0.7143,  
2.6029

143.9608,  
148.8697, 205.7699

■ 0.0000, 0.0000,  
0.8940

178.8747,

■ 0.0000, 0.0000,

185.1980, 251.8841

0.0000

219.0211,  
227.0020, 304.4194

■ 23.9002, 24.3661,  
40.4892

■ 23.9002, 24.3661,  
40.4892

■ 20.0796, 19.9913,  
39.8466

■ 28.3337, 29.3533,  
41.2186

■ 16.8417, 16.2016,  
39.2857

■ 33.4038, 34.9729,  
42.0360

■ 14.1574, 12.9719,  
38.8038

■ 39.1357, 41.2477,  
42.9451

■ 11.9937, 10.2740,  
38.3971

■ 45.5525, 48.1981,  
43.9485

■ 10.3140, 8.0772,  
38.0616

■ 52.6762, 55.8441,  
45.0488

■ 9.0767, 6.3468,  
37.7928

■ 60.5279, 64.2044,  
46.2487

■ 8.2242, 5.0392,  
37.5854

■ 69.1275, 73.2972,  
47.5505

■ 7.9990, 4.6892,  
37.5297

■ 77.6052, 82.6817,  
48.9151

■ 81.2266, 89.9245,  
50.1222

# Harmonies

## Analogous

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



21.7223, 24.3661, 39.7466



23.9002, 24.3661, 40.4892



26.0062, 24.3661, 37.0602

# Triad

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



23.9002, 24.3661, 40.4892



26.5915, 24.3661, 19.4370



19.3774, 24.3661, 22.5450

# Complementary

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



23.9002, 24.3661, 40.4892



31.6122, 33.5317, 23.5456

# 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.



20.5280, 24.3661, 18.2121



23.9002, 24.3661, 40.4892



24.6582, 24.3661, 16.6264

# Square

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



23.9002, 24.3661, 40.4892



27.6244, 24.3661, 24.4857



22.4338, 24.3661, 16.2170



19.2032, 24.3661, 28.6862



# Rectangle

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



23.9002, 24.3661, 40.4892



27.0519, 24.3661, 33.1486



22.4338, 24.3661, 16.2170



19.6592, 24.3661, 20.8577

# Sweetspot

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



23.9010, 24.3671, 40.4898



59.2931, 62.0052, 76.0682



28.1089, 34.5916, 36.3163



12.6198, 13.1793, 16.5309



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656



# Same Dimension

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



23.9010, 24.3671, 40.4898



39.2159, 39.4778, 72.7782



23.7848, 21.9598, 40.0312



7.2885, 7.6140, 9.5038



6.0776, 3.6154, 28.3530



0.1889, 0.1701, 0.7035



# Inverse Universe

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



27.6052, 24.2406, 26.1468



47.1238, 39.4620, 42.1010



31.7280, 36.7302, 24.1568



7.6102, 7.5740, 8.2647



12.5683, 6.4360, 2.5383



0.3265, 0.1649, 0.1709



# Previews

## White Background



This preview shows how the XYZ color 23.9002, 24.3661, 40.4892 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 23.9002, 24.3661, 40.4892 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

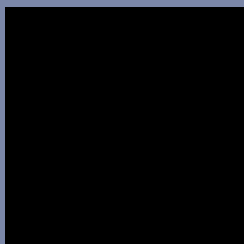
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

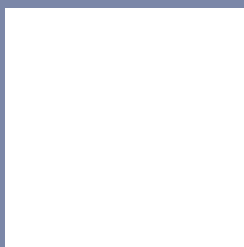
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 23.9002, 24.3661, 40.4892**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.9002, 24.3661, 40.4892.



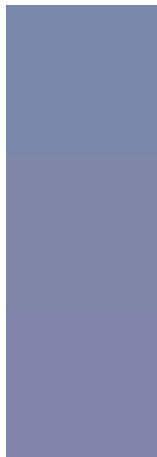
This preview shows how white text looks on a background with the XYZ color 23.9002, 24.3661,



# 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

23.9002, 24.3661, 40.4892

### Protanopia

24.2525, 24.3522, 39.9814

### Deuteranopia

24.7728, 24.1924, 40.9001



## **Tritanopia**

22.1210, 24.2688, 31.9522

# Trichromacy



## Original Color

23.9002, 24.3661, 40.4892

## Protanomaly

24.1043, 24.2758, 39.9745

## Deuteranomaly

24.4510, 24.2288, 40.9240

## Tritanomaly

22.6921, 24.2847, 34.9439

# Monochromacy



## Original Color

23.9002, 24.3661, 40.4892

## Achromatopsia

23.0288, 24.2281, 26.3844

## Achromatomaly

23.2905, 24.2598, 31.0588

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.9002, 24.3661, 40.4892 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(123, 135, 168)` looks like.

```
.text, #text, p{  
    color:rgb(123, 135, 168)  
}
```

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(123, 135, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 135, 168) }
```

## Border

The CSS property to change the border of an element to XYZ 23.9002, 24.3661, 40.4892 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(123, 135, 168) }
```



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

```
.border{ border-color:rgb(123, 135, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 135, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 135, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 135, 168);  
box-shadow:4px 4px 4px 4px rgb(123, 135,  
168) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.9002, 24.3661, 40.4892 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 135, 168) }
```

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

```
.background{ background-color: rgb(123,  
135, 168) }
```

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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