

# Converting Colors

XYZ(24.8235, 24.9227, 38.6930)

Have a look what the booklet for  
XYZ(24.8235, 24.9227, 38.6930)  
contains.

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# Color

**XYZ(24.7249, 24.8336,  
38.6122)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8387A4
RGB	131, 135, 164
RGB Percent	51%, 53%, 64%
CMY	0.4863, 0.4706, 0.3569
CMYK	0.20, 0.18, 0.00, 0.36
HSL	233°, 15%, 58%
HSV	233°, 20%, 64%
XYZ	24.7249, 24.8336, 38.6122
YIQ	137.1100, -11.6930, 8.1710

# Conversions

## Conversions Part 2

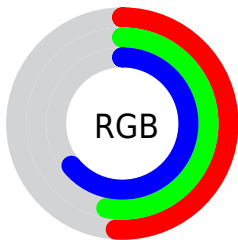
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	131, 135, 164
Decimal	8619940
CIE <sub>Lab</sub>	56.91, 4.90, -15.85
CIE <sub>LCh</sub>	57, 16.592, 287.177
Yxy	24.8336, 0.2804, 0.2817
Android (android.graphics.Color)	4286810020 (0xFF8387A4)
YUV	137.1100, 13.2568, -5.3585
Hunter-Lab	49.8333, 1.3548, -11.0562

# Details

The XYZ color **24.7249, 24.8336, 38.6122** is a dark color, and the websafe version is hex **9999CC**. A complement of this color would be **31.9776, 34.6728, 26.4805**, and the grayscale version is **23.7747, 25.0128, 27.2390**.

A 20% lighter version of the original color is **50.5366, 51.2713, 74.2506**, and **9.5665, 9.4162, 16.6425** is the 20% darker color. If you saturate the color by 10%, you get **20.5067, 19.8739, 37.8776**, and if you desaturate by 10%, it is **29.6189, 30.5470, 39.4575**.

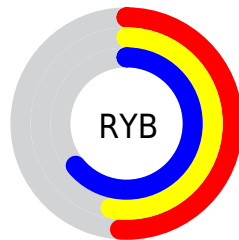
# Distribution



Red (51%)

Green (53%)

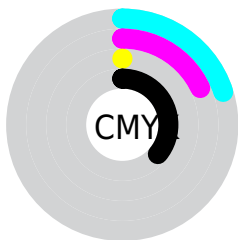
Blue (64%)



Red (51%)

Yellow (53%)

Blue (64%)

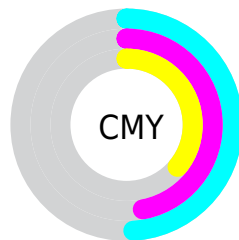


Cyan (20%)

Magenta (18%)

Yellow (0%)

Black (36%)



Cyan (49%)

Magenta (47%)

Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.7249, 24.8336, 38.6122 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 24.7249, 24.8336, 38.6122 by changing the saturation by 10% instead.



■ 24.7249, 24.8336,  
38.6122

■ 24.7249, 24.8336,  
38.6122

268.8381,  
277.0082, 355.6155

■ 15.9999, 15.9531,  
26.1527

■ 50.6567, 51.3871,  
74.2593

■ 9.6149, 9.4910,  
16.7111

■ 68.5941, 69.8290,  
98.2840

■ 5.2047, 5.0628,  
9.8690

■ 90.3331, 92.2268,  
127.0008

■ 2.4038, 2.2842,  
5.2077

116.2390,  
118.9649, 160.8282

■ 0.8470, 0.7653,  
2.3088

146.6770,  
150.4277, 200.1849

■ 0.0000, 0.0000,  
0.7361

182.0127,

■ 0.0000, 0.0000,

186.9996, 245.4893

0.0000

222.6112,  
229.0650, 297.1600

■ 24.7249, 24.8336,  
38.6122

■ 24.7249, 24.8336,  
38.6122

■ 20.5067, 19.8739,  
37.8776

■ 29.6189, 30.5470,  
39.4575

■ 16.9323, 15.6335,  
37.2475

■ 35.2143, 37.0405,  
40.4159

■ 13.9705, 12.0796,  
36.7177

■ 41.5381, 44.3434,  
41.4922

■ 11.5865, 9.1758,  
36.2828

■ 48.6153, 52.4820,  
42.6901

■ 9.7421, 6.8824,  
35.9373

■ 56.4696, 61.4818,  
44.0133

■ 8.3944, 5.1550,  
35.6750

■ 65.1238, 71.3672,  
45.4652

■ 7.4936, 3.9434,  
35.4886

■ 74.5996, 82.1614,  
47.0493

■ 6.9491, 3.1767,  
35.3693

■ 82.2183, 92.4951,  
48.6424

■ 83.7009, 95.4604,  
49.1366

# Harmonies

## Analogous

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



22.7836, 24.8336, 38.8798



24.7249, 24.8336, 38.6122



26.4530, 24.8336, 34.9893

# Triad

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



24.7249, 24.8336, 38.6122



26.2369, 24.8336, 19.9227



20.1430, 24.8336, 24.7324

# Complementary

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



24.7249, 24.8336, 38.6122



31.9776, 34.6728, 26.4805

# 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.



20.9665, 24.8336, 20.3955



24.7249, 24.8336, 38.6122



24.4430, 24.8336, 17.8862

# Square

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



24.7249, 24.8336, 38.6122



27.3583, 24.8336, 23.9994



22.5167, 24.8336, 18.0465



20.2092, 24.8336, 30.3262



# Rectangle

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



24.7249, 24.8336, 38.6122



27.2196, 24.8336, 31.4086



22.5167, 24.8336, 18.0465



20.3229, 24.8336, 23.0958

# Sweetspot

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



24.7257, 24.8346, 38.6128



57.6781, 59.9987, 72.2933



28.9463, 33.9008, 38.0929



12.4773, 12.9633, 15.7821



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430



# Same Dimension

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



24.7257, 24.8346, 38.6128



41.4176, 41.0153, 69.4861



26.1627, 24.7621, 38.5230



6.7665, 6.9919, 8.8960



5.3481, 2.4757, 27.1258



0.1315, 0.0902, 0.5763



# Inverse Universe

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



27.8000, 25.8750, 26.4520



48.0141, 43.3124, 43.3782



30.3029, 34.8559, 26.6041



7.1071, 7.0993, 7.5504



11.8450, 6.0940, 1.1083



0.2585, 0.1319, 0.0740



# Previews

## White Background



This preview shows how the XYZ color 24.7249, 24.8336, 38.6122 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 24.7249, 24.8336, 38.6122 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

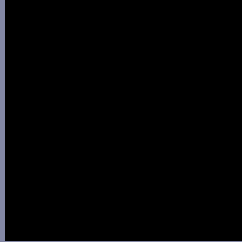
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 24.7249, 24.8336, 38.6122**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.7249, 24.8336, 38.6122.



This preview shows how white text looks on a background with the XYZ color 24.7249, 24.8336,



# 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

24.7249, 24.8336, 38.6122

### Protanopia

24.5707, 24.7541, 38.6050

### Deuteranopia

25.2417, 24.6896, 38.5572



## Tritanopia

23.4154, 24.9361, 32.0128

# Trichromacy



## Original Color

24.7249, 24.8336, 38.6122

## Protanomaly

24.5707, 24.7541, 38.6050

## Deuteranomaly

25.0575, 24.7989, 38.5879

## Tritanomaly

23.8317, 24.8915, 34.1203

# Monochromacy



## Original Color

24.7249, 24.8336, 38.6122

## Achromatopsia

23.7775, 25.0158, 27.2422

## Achromatomaly

24.0623, 24.8658, 31.1351

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.7249, 24.8336, 38.6122 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(131, 135, 164)` looks like.

```
.text, #text, p{  
    color:rgb(131, 135, 164)  
}
```

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(131, 135, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 135, 164) }
```

## Border

The CSS property to change the border of an element to XYZ 24.7249, 24.8336, 38.6122 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(131, 135, 164) }
```



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

```
.border{ border-color:rgb(131, 135, 164) }
```

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

Here you see how a box with a 4 pixel rgb(131, 135, 164) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 135, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 135, 164);  
box-shadow:4px 4px 4px 4px rgb(131, 135,  
164) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.7249, 24.8336, 38.6122 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 135, 164) }
```

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

```
.background{ background-color: rgb(131,  
135, 164) }
```

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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