

# Converting Colors

XYZ(24.4122, 39.2175, 23.6426)

Have a look what the booklet for  
XYZ(24.4122, 39.2175, 23.6426)  
contains.

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# Color

**XYZ(24.4290, 39.2230,  
23.7360)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4BBD77
RGB	75, 189, 119
RGB Percent	29%, 74%, 47%
CMY	0.7059, 0.2588, 0.5333
CMYK	0.60, 0.00, 0.37, 0.26
HSL	143°, 46%, 52%
HSV	143°, 60%, 74%
XYZ	24.4290, 39.2230, 23.7360
YIQ	146.9340, -45.4740, -45.9380

# Conversions

## Conversions Part 2

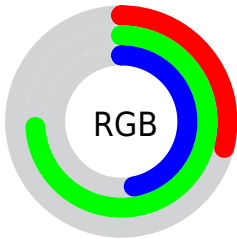
<b>Format</b>	<b>Color</b>
<b>RYB</b>	75, 157, 189
Decimal	4963703
CIELab	68.91, -48.10, 26.03
CIELCh	69, 54.693, 151.577
Yxy	39.2230, 0.2795, 0.4488
Android (android.graphics.Color)	4283153783 (0xFF4BBD77)
YUV	146.9340, -13.7715, -63.0861
Hunter-Lab	62.6283, -39.9731, 21.3690

# Details

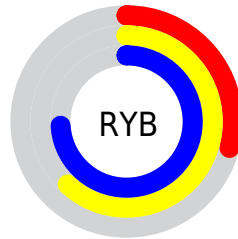
The XYZ color **24.4290, 39.2230, 23.7360** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **28.6144, 17.8960, 28.7354**, and the grayscale version is **27.7753, 29.2218, 31.8225**.

A 20% lighter version of the original color is **50.2337, 73.9584, 50.6575**, and **9.7695, 17.7701, 8.7094** is the 20% darker color. If you saturate the color by 10%, you get **22.5097, 38.3103, 20.2278**, and if you desaturate by 10%, it is **26.8746, 40.3993, 27.7149**.

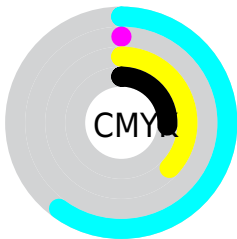
# Distribution



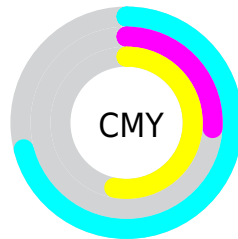
- Red (29%)
- Green (74%)
- Blue (47%)



- Red (29%)
- Yellow (62%)
- Blue (74%)



- Cyan (60%)
- Magenta (0%)
- Yellow (37%)
- Black (26%)




- Cyan (71%)
- Magenta (26%)
- Yellow (53%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.4290, 39.2230, 23.7360 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 24.4290, 39.2230, 23.7360 by changing the saturation by 10% instead.





 24.4290, 39.2230,  
23.7360


 24.4290, 39.2230,  
23.7360


267.3826,  
342.8377, 284.7265


 15.7786, 26.9333,  
14.9275


 50.1790, 73.9789,  
50.5375


 9.4575, 17.5231,  
8.6225


 68.0092, 97.2138,  
69.3675


 5.1003, 10.6081,  
4.4023


 89.6302, 124.8658,  
92.3752

 2.3416, 5.8040,  
1.8486

 115.4072,  
157.3195, 119.9790

 0.8158, 2.7263,  
0.4597

 145.7056,  
194.9591, 152.5975

 0.0000, 0.9906,  
0.0000

180.8907,

 0.0000, 0.0000,

238.1691, 190.6492

0.0000

221.3280,  
287.3338, 234.5527

■ 24.4290, 39.2230,  
23.7360

■ 24.4290, 39.2230,  
23.7360

■ 22.5097, 38.3103,  
20.2278

■ 26.8746, 40.3993,  
27.7149

■ 21.0702, 37.6345,  
17.1696

■ 29.8815, 41.8537,  
32.1788

■ 20.0610, 37.1712,  
14.5431

■ 33.4852, 43.6054,  
37.1445

■ 19.3993, 36.8771,  
12.3899

■ 37.7175, 45.6702,  
42.6273

■ 42.6075, 48.0630,  
48.6419

■ 48.1827, 50.7977,  
55.2021

■ 54.4689, 53.8873,  
62.3216

■ 61.4907, 57.3442,  
70.0132

■ 69.2713, 61.1801,  
78.2897

# Harmonies

## Analogous

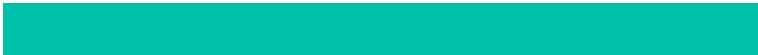
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



29.1955, 39.2230, 13.5312



24.4290, 39.2230, 23.7360



22.9450, 39.2230, 44.0384

# Triad

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



24.4290, 39.2230, 23.7360



37.7423, 39.2230, 110.6458



53.4081, 39.2230, 22.2265

# Complementary

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



24.4290, 39.2230, 23.7360



28.6144, 17.8960, 28.7354

# 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.



56.6067, 39.2230, 41.4031



24.4290, 39.2230, 23.7360



46.7347, 39.2230, 97.8396

# Square

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



24.4290, 39.2230, 23.7360



29.8778, 39.2230, 100.1474



53.9949, 39.2230, 69.7804



45.8143, 39.2230, 12.9280



# Rectangle

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



24.4290, 39.2230, 23.7360



23.7983, 39.2230, 62.8389



53.9949, 39.2230, 69.7804



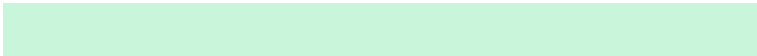
55.0817, 39.2230, 27.4123

# Sweetspot

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



24.4300, 39.2246, 23.7369



69.2297, 82.6133, 78.4507



31.1989, 42.9520, 13.3031



14.3718, 17.5136, 16.2219



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



24.4300, 39.2246, 23.7369



39.4987, 68.2264, 34.5936



28.9073, 41.0155, 47.3138



9.5571, 10.7090, 10.9172



13.0868, 24.8250, 8.5198



0.5448, 0.9853, 0.5032



# Inverse Universe

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



28.6144, 17.8960, 28.7354



47.5997, 26.7421, 44.1287



25.2773, 16.5612, 11.1625



9.7697, 9.6322, 11.1760



16.2816, 8.1438, 12.0424



0.6689, 0.3314, 0.6354



# Previews

## White Background



This preview shows how the XYZ color 24.4290, 39.2230, 23.7360 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 24.4290, 39.2230, 23.7360 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 ✓ Pass

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

**XYZ 24.4290, 39.2230, 23.7360**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.4290, 39.2230, 23.7360.



This preview shows how white text looks on a background with the XYZ color 24.4290, 39.2230,



# 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

24.4290, 39.2230, 23.7360

### Protanopia

35.6892, 38.5870, 20.3189

### Deuteranopia

39.3627, 38.5183, 25.0988



## Tritanopia

31.0959, 39.1342, 56.9537

# Trichromacy



## Original Color

24.4290, 39.2230, 23.7360



## Protanomaly

29.4659, 37.6030, 21.3279



## Deuteranomaly

31.2749, 37.3282, 24.2956



## Tritanomaly

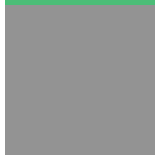
28.1250, 38.8307, 42.5719

# Monochromacy



## Original Color

24.4290, 39.2230, 23.7360



## Achromatopsia

27.7328, 29.1771, 31.7738



## Achromatomaly

25.3208, 31.7118, 28.4533

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.4290, 39.2230, 23.7360 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(75, 189, 119)` looks like.

```
.text, #text, p{  
    color:rgb(75, 189, 119)  
}
```

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(75, 189, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 189, 119) }
```

## Border

The CSS property to change the border of an element to XYZ 24.4290, 39.2230, 23.7360 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(75, 189, 119) }
```



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

```
.border{ border-color:rgb(75, 189, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(75, 189, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 189, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 189, 119);  
box-shadow:4px 4px 4px 4px rgb(75, 189,  
119) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.4290, 39.2230, 23.7360 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 189, 119) }
```

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

```
.background{ background-color: rgb(75, 189,  
119) }
```

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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