

# Converting Colors

XYZ(23.9780, 28.4546, 4.2285)

Have a look what the booklet for  
XYZ(23.9780, 28.4546, 4.2285)  
contains.

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# Color

**XYZ(24.0432, 28.5850,  
4.2502)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	999600
RGB	153, 150, 0
RGB Percent	60%, 59%, 0%
CMY	0.4000, 0.4117, 1.0000
CMYK	0.00, 0.02, 1.00, 0.40
HSL	59°, 100%, 30%
HSV	59°, 100%, 60%
XYZ	24.0432, 28.5850, 4.2502
YIQ	133.7970, 49.9380, -46.0140

# Conversions

## Conversions Part 2

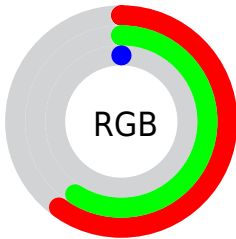
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	3, 153, 0
Decimal	10065408
CIE <sub>Lab</sub>	60.41, -13.15, 63.90
CIE <sub>LCh</sub>	60, 65.242, 101.628
Yxy	28.5850, 0.4227, 0.5026
Android (android.graphics.Color)	4288255488 (0xFF999600)
YUV	133.7970, -65.9619, 16.8410
Hunter-Lab	53.4649, -13.2921, 32.7122

# Details

The XYZ color **24.0432, 28.5850, 4.2502** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **5.7825, 2.3652, 30.2885**, and the grayscale version is **22.8082, 23.9960, 26.1317**.

A 20% lighter version of the original color is **49.6265, 57.5025, 14.6144**, and **9.5942, 11.7110, 1.7548** is the 20% darker color. If you saturate the color by 10%, you get **24.0438, 28.5863, 4.2505**, and if you desaturate by 10%, it is **24.1801, 28.7174, 4.7322**.

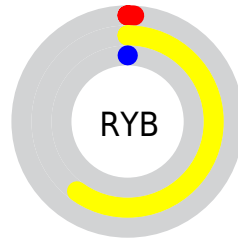
# Distribution



Red (60%)

Green (59%)

Blue (0%)



Red (1%)

Yellow (60%)

Blue (0%)

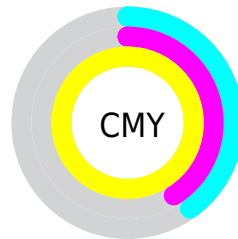


Cyan (0%)

Magenta (2%)

Yellow (100%)

Black (40%)



Cyan (40%)

Magenta (41%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.0432, 28.5850, 4.2502 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 24.0432, 28.5850, 4.2502 by changing the saturation by 10% instead.



■ 24.0432, 28.5850,  
4.2502

■ 24.0432, 28.5850,  
4.2502

265.4752,  
295.2518, 150.9670

■ 15.4906, 18.7671,  
1.7636

■ 49.5548, 57.4171,  
14.5828

■ 9.2530, 11.5021,  
0.4038

■ 67.2446, 77.2000,  
23.2659

■ 4.9650, 6.4056,  
0.0000

■ 88.7107, 101.0735,  
34.8515

■ 2.2613, 3.0933,  
0.0000

■ 114.3187,  
129.4218, 49.7582

■ 0.7747, 1.1806,  
0.0000

■ 144.4337,  
162.6294, 68.4046

■ 0.0000, 0.0458,  
0.0000

■ 179.4213,

■ 0.0000, 0.0000,

201.0807, 91.2092

0.0000

219.6467,  
245.1600, 118.5905

24.0432, 28.5850,  
4.2502

24.0432, 28.5850,  
4.2502

24.0438, 28.5863,  
4.2505

24.1801, 28.7174,  
4.7322

24.3819, 28.8749,  
5.5579

24.6791, 29.0708,  
6.8860

25.0840, 29.3099,  
8.7800

25.6066, 29.5963,  
11.2939

■ 26.2563, 29.9337,  
14.4757

■ 27.0410, 30.3254,  
18.3685

■ 27.9684, 30.7743,  
23.0119

■ 29.0454, 31.2832,  
28.4423

# Harmonies

## Analogous

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



32.5822, 28.5850, 4.6346



24.0432, 28.5850, 4.2502



17.7934, 28.5850, 7.7768

# Triad

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



24.0432, 28.5850, 4.2502



16.7997, 28.5850, 73.0526



45.5524, 28.5850, 48.0910

# Complementary

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



24.0432, 28.5850, 4.2502



5.7825, 2.3652, 30.2885

# Split Complementary

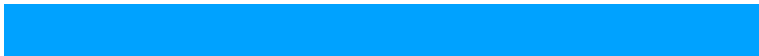
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



39.3675, 28.5850, 80.0583



24.0432, 28.5850, 4.2502



22.3915, 28.5850, 98.8599

# Square

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



24.0432, 28.5850, 4.2502



14.2250, 28.5850, 41.4051



30.5550, 28.5850, 101.9333



46.2497, 28.5850, 22.7038



# Rectangle

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



24.0432, 28.5850, 4.2502



15.2954, 28.5850, 13.9168



30.5550, 28.5850, 101.9333



43.9949, 28.5850, 58.6727

# Sweetspot

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



24.0438, 28.5863, 4.2508



48.3365, 54.2649, 32.4409



13.1649, 6.7837, 0.7623



10.5484, 11.9205, 6.5431



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178



# Same Dimension

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



24.0438, 28.5863, 4.2508



43.0432, 51.1614, 7.6065



14.8366, 24.5584, 3.9586



6.6985, 7.2021, 6.6429



19.8749, 23.6322, 3.5140



0.2999, 0.3589, 0.0535



# Inverse Universe

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



5.7825, 2.3652, 30.2885



10.3395, 4.2034, 54.2384



8.3782, 3.6551, 30.4006



5.8937, 6.0447, 7.7851



4.7819, 1.9604, 25.0341



0.0738, 0.0338, 0.3750



# Previews

## White Background



This preview shows how the XYZ color 24.0432, 28.5850, 4.2502 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 24.0432, 28.5850, 4.2502 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

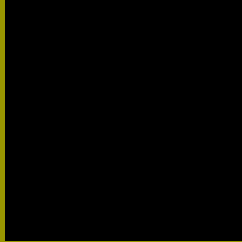
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 24.0432, 28.5850, 4.2502**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.0432, 28.5850, 4.2502.



This preview shows how white text looks on a background with the XYZ color 24.0432, 28.5850,



# 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

24.0432, 28.5850, 4.2502

### Protanopia

25.5887, 28.4503, 4.1428

### Deuteranopia

29.0005, 28.4252, 4.7172



## Tritanopia

29.8419, 28.4538, 32.7735

# Trichromacy



## Original Color

24.0432, 28.5850, 4.2502

## Protanomaly

24.9309, 28.3410, 4.1564

## Deuteranomaly

26.9858, 28.2619, 4.4483

## Tritanomaly

26.1861, 27.8421, 14.8204

# Monochromacy



## Original Color

24.0432, 28.5850, 4.2502

## Achromatopsia

22.6597, 23.8398, 25.9615

## Achromatomaly

22.0023, 25.0748, 12.2746

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.0432, 28.5850, 4.2502 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(153, 150, 0)` looks like.

```
.text, #text, p{  
    color:rgb(153, 150, 0)  
}
```

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(153, 150, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 150, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 24.0432, 28.5850, 4.2502 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(153, 150, 0) }
```



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

```
.border{ border-color:rgb(153, 150, 0) }
```

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

Here you see how a box with a 4 pixel rgb(153, 150, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 150, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 150, 0);  
box-shadow:4px 4px 4px 4px rgb(153, 150,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.0432, 28.5850, 4.2502 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 150, 0) }
```

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

```
.background{ background-color: rgb(153,  
150, 0) }
```

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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