

# Converting Colors

XYZ(24.3655, 23.6685, 6.3410)

Have a look what the booklet for  
XYZ(24.3655, 23.6685, 6.3410)  
contains.

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# Color

**XYZ(24.3135, 23.7339,  
6.3172)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A87F32
RGB	168, 127, 50
RGB Percent	66%, 50%, 20%
CMY	0.3412, 0.5019, 0.8039
CMYK	0.00, 0.24, 0.70, 0.34
HSL	39°, 54%, 43%
HSV	39°, 70%, 66%
XYZ	24.3135, 23.7339, 6.3172
YIQ	130.4810, 49.1530, -15.2550

# Conversions

## Conversions Part 2

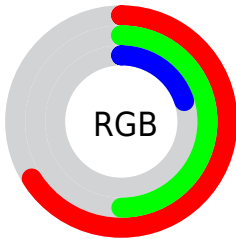
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	113, 168, 50
Decimal	11042610
CIE Lab	55.82, 7.83, 46.40
CIE LCh	56, 47.058, 80.423
Yxy	23.7339, 0.4472, 0.4366
Android (android.graphics.Color)	4289232690 (0xFFA87F32)
YUV	130.4810, -39.6771, 32.9042
Hunter-Lab	48.7175, 3.8288, 26.4141

# Details

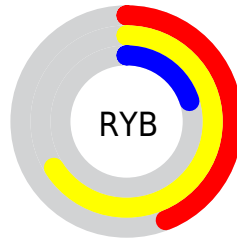
The XYZ color **24.3135, 23.7339, 6.3172** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **12.1240, 10.9868, 38.5270**, and the grayscale version is **21.5135, 22.6339, 24.6483**.

A 20% lighter version of the original color is **49.9855, 49.7314, 19.0212**, and **9.4065, 8.8935, 1.2208** is the 20% darker color. If you saturate the color by 10%, you get **23.2835, 22.1514, 4.5022**, and if you desaturate by 10%, it is **25.5213, 25.4593, 8.8481**.

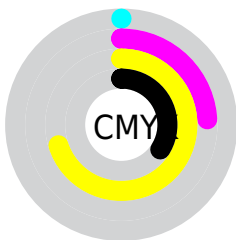
# Distribution



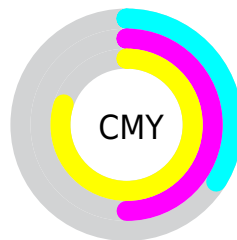
- Red (66%)
- Green (50%)
- Blue (20%)



- Red (44%)
- Yellow (66%)
- Blue (20%)



- Cyan (0%)
- Magenta (24%)
- Yellow (70%)
- Black (34%)




- Cyan (34%)
- Magenta (50%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.3135, 23.7339, 6.3172 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 24.3135, 23.7339, 6.3172 by changing the saturation by 10% instead.





 24.3135, 23.7339,  
6.3172


 24.3135, 23.7339,  
6.3172


266.8128,  
271.4724, 171.2728


 15.6923, 15.1363,  
2.9670


 49.9923, 49.5956,  
19.0747


 9.3962, 8.9151,  
1.0778


 67.7806, 67.6286,  
29.3191

 5.0596, 4.6859,  
0.0000

 89.3553, 89.5754,  
42.6987

 2.3174, 2.0642,  
0.0000

 115.0818,  
115.8206, 59.6320

 0.8036, 0.6444,  
0.0000

 145.3255,  
146.7485, 80.5375

 0.0000, 0.0000,  
0.0000

 180.4516,

182.7435, 105.8337

220.8256,  
224.1900, 135.9393

■ 24.3135, 23.7339,  
6.3172

■ 24.3135, 23.7339,  
6.3172

■ 23.2835, 22.1514,  
4.5022

■ 25.5213, 25.4593,  
8.8481

■ 22.4135, 20.7006,  
3.3204

■ 26.9190, 27.3308,  
12.1625

■ 21.6847, 19.3977,  
2.6012

■ 28.5194, 29.3554,  
16.3218

■ 30.3335, 31.5388,  
21.3807

■ 32.3715, 33.8860,  
27.3893

■ 34.6427, 36.4019,  
34.3941

■ 37.1560, 39.0910,  
42.4383

■ 39.9198, 41.9576,  
51.5628

■ 42.9419, 45.0060,  
61.8062

# Harmonies

## Analogous

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



29.7678, 23.7339, 9.1357



24.3135, 23.7339, 6.3172



19.1556, 23.7339, 6.8977

# Triad

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



24.3135, 23.7339, 6.3172



14.2258, 23.7339, 37.5468



31.4529, 23.7339, 49.5246

# Complementary

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



24.3135, 23.7339, 6.3172



12.1240, 10.9868, 38.5270

# 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.



26.3420, 23.7339, 64.4531



24.3135, 23.7339, 6.3172



16.6184, 23.7339, 55.8522

# Square

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



24.3135, 23.7339, 6.3172



13.8589, 23.7339, 21.2440



20.8898, 23.7339, 67.1405



34.2989, 23.7339, 31.0602



# Rectangle

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



24.3135, 23.7339, 6.3172



16.5236, 23.7339, 9.2763



20.8898, 23.7339, 67.1405



29.9082, 23.7339, 55.3858

# Sweetspot

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



24.3140, 23.7351, 6.3177



58.2975, 60.9873, 48.3597



19.1903, 11.3666, 11.1483



12.4883, 13.0440, 9.8897



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.



24.3140, 23.7351, 6.3177



41.3801, 38.7718, 6.8997



27.2111, 34.7478, 8.2906



7.9242, 8.3284, 7.9792



16.4249, 14.7470, 1.9808



0.4447, 0.4489, 0.0632



# Inverse Universe

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



12.1240, 10.9868, 38.5270



17.9919, 14.4292, 69.0619



10.5716, 6.3267, 37.7094



7.3370, 7.7109, 9.5200



6.5380, 4.5362, 28.5065



0.2068, 0.2058, 0.7095



# Previews

## White Background



This preview shows how the XYZ color 24.3135, 23.7339, 6.3172 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 24.3135, 23.7339, 6.3172 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 24.3135, 23.7339, 6.3172**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.3135, 23.7339, 6.3172.



This preview shows how white text looks on a background with the XYZ color 24.3135, 23.7339,



# 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

24.3135, 23.7339, 6.3172

### Protanopia

21.7226, 23.7822, 6.6943

### Deuteranopia

24.1014, 23.6245, 6.3073



## Tritanopia

27.7267, 23.6364, 23.5230

# Trichromacy



## Original Color

24.3135, 23.7339, 6.3172

## Protanomaly

22.6185, 23.6397, 6.5028

## Deuteranomaly

24.1014, 23.6245, 6.3073

## Tritanomaly

26.0544, 23.4971, 15.2188

# Monochromacy



## Original Color

24.3135, 23.7339, 6.3172

## Achromatopsia

21.2178, 22.3228, 24.3095

## Achromatomaly

21.7008, 22.5694, 15.5245

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.3135, 23.7339, 6.3172 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(168, 127, 50)` looks like.

```
.text, #text, p{  
    color:rgb(168, 127, 50)  
}
```

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(168, 127, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 127, 50) }
```

## Border

The CSS property to change the border of an element to XYZ 24.3135, 23.7339, 6.3172 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(168, 127, 50) }
```



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

```
.border{ border-color:rgb(168, 127, 50) }
```

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

Here you see how a box with a 4 pixel rgb(168, 127, 50) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 127, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 127, 50);  
box-shadow:4px 4px 4px 4px rgb(168, 127,  
50) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.3135, 23.7339, 6.3172 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 127, 50) }
```

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

```
.background{ background-color: rgb(168,  
127, 50) }
```

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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