

# Converting Colors

XYZ(12.5489, 16.7833, 8.2217)

Have a look what the booklet for  
XYZ(12.5489, 16.7833, 8.2217)  
contains.

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# Color

**XYZ(12.5708, 16.8709,  
8.2241)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5C7B45
RGB	92, 123, 69
RGB Percent	36%, 48%, 27%
CMY	0.6392, 0.5176, 0.7294
CMYK	0.25, 0.00, 0.44, 0.52
HSL	94°, 28%, 38%
HSV	94°, 44%, 48%
XYZ	12.5708, 16.8709, 8.2241
YIQ	107.5750, -1.1420, -23.3660

# Conversions

## Conversions Part 2

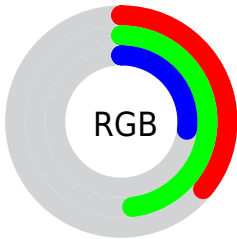
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	69, 123, 100
Decimal	6060869
CIE <sub>Lab</sub>	48.10, -21.53, 25.97
CIE <sub>LCh</sub>	48, 33.735, 129.662
Yxy	16.8709, 0.3337, 0.4479
Android (android.graphics.Color)	4284250949 (0xFF5C7B45)
YUV	107.5750, -19.0175, -13.6593
Hunter-Lab	41.0742, -17.2497, 16.8806

# Details

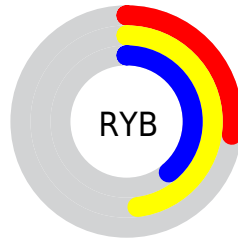
The XYZ color **12.5708, 16.8709, 8.2241** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **10.9595, 8.3961, 19.7828**, and the grayscale version is **14.1870, 14.9259, 16.2543**.

A 20% lighter version of the original color is **30.1230, 38.1983, 22.9249**, and **3.6524, 5.4990, 1.7331** is the 20% darker color. If you saturate the color by 10%, you get **11.5552, 16.3875, 6.3860**, and if you desaturate by 10%, it is **13.7322, 17.4214, 10.4830**.

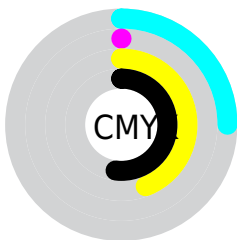
# Distribution



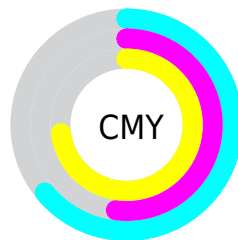
- Red (36%)
- Green (48%)
- Blue (27%)



- Red (27%)
- Yellow (48%)
- Blue (39%)



- Cyan (25%)
- Magenta (0%)
- Yellow (44%)
- Black (52%)




- Cyan (64%)
- Magenta (52%)
- Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 12.5708, 16.8709, 8.2241 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 12.5708, 16.8709, 8.2241 by changing the saturation by 10% instead.





 12.5708, 16.8709,  
8.2241


 12.5708, 16.8709,  
8.2241

201.8421,  
234.4273, 187.4791


 7.2086, 10.1425,  
4.1489


 30.1384, 38.1037,  
22.9500


 3.6404, 5.4935,  
1.7074


 43.0746, 53.3768,  
34.4377

 1.5008, 2.5396,  
0.3658

 59.2662, 72.2670,  
49.2334

 0.3264, 0.8964,  
0.0000

 79.0785, 95.1586,  
67.7554

 0.0000, 0.0000,  
0.0000

 102.8768,  
122.4361, 90.4225

131.0267,

154.4837, 117.6531

163.8933,  
191.6860, 149.8658

■ 12.5708, 16.8709,  
8.2241

■ 12.5708, 16.8709,  
8.2241

■ 11.5552, 16.3875,  
6.3860

■ 13.7322, 17.4214,  
10.4830

■ 10.6773, 15.9660,  
4.9416

■ 15.0445, 18.0394,  
13.1853

■ 9.9304, 15.6041,  
3.8622


■ 16.5137, 18.7282,  
16.3536


■ 9.3062, 15.2982,  
3.1149


■ 18.1454, 19.4902,  
20.0084


■ 8.7943, 15.0439,  
2.6556


■ 19.9449, 20.3276,  
24.1690

 8.5195, 14.9070,  
2.4283

 21.9170, 21.2426,  
28.8536

 24.0665, 22.2373,  
34.0797

 26.3980, 23.3136,  
39.8639

 28.9158, 24.4735,  
46.2220

# Harmonies

## Analogous

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



15.0695, 16.8709, 6.2757



12.5708, 16.8709, 8.2241



11.1341, 16.8709, 13.1211

# Triad

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



12.5708, 16.8709, 8.2241



14.0792, 16.8709, 39.0890



22.5509, 16.8709, 15.6883

# Complementary

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



12.5708, 16.8709, 8.2241



10.9595, 8.3961, 19.7828

# 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.



22.1977, 16.8709, 24.8586



12.5708, 16.8709, 8.2241



17.0415, 16.8709, 40.4446

# Square

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



12.5708, 16.8709, 8.2241



11.9251, 16.8709, 31.3344



20.0841, 16.8709, 34.6016



20.9955, 16.8709, 9.5886



# Rectangle

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



12.5708, 16.8709, 8.2241



10.8495, 16.8709, 18.2705



20.0841, 16.8709, 34.6016



22.6555, 16.8709, 18.4690

# Sweetspot

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



12.5712, 16.8716, 8.2245



29.7326, 33.6118, 29.6410



13.7621, 13.6791, 7.5455



6.8794, 7.8585, 6.7105



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970



# Same Dimension

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



12.5712, 16.8716, 8.2245



20.6238, 29.3121, 11.3185



10.7271, 15.9076, 8.7394



4.0977, 4.5257, 4.2821



8.8069, 15.4173, 2.5117



41.0778, 73.0618, 11.9373



# Inverse Universe

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



10.9595, 8.3961, 19.7828



17.3209, 11.9759, 34.9553



13.6510, 9.8092, 18.7537



3.9973, 3.9965, 5.0039



6.3512, 2.8469, 19.6001



29.3072, 13.0704, 93.4480



# Previews

## White Background



This preview shows how the XYZ color 12.5708, 16.8709, 8.2241 looks on a white 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



# Black Background



This preview shows how the XYZ color 12.5708, 16.8709, 8.2241 looks on a black 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

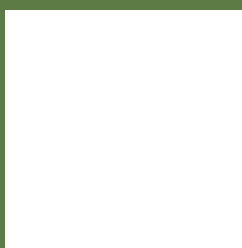
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 12.5708, 16.8709, 8.2241**

## **Background**



This preview shows how black text looks on a background with the XYZ color 12.5708, 16.8709, 8.2241.



This preview shows how white text looks on a background with the XYZ color 12.5708, 16.8709,



# 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

12.5708, 16.8709, 8.2241

### Protanopia

15.4581, 16.7879, 7.5799

### Deuteranopia

16.9549, 16.7235, 8.4652



## Tritanopia

15.3781, 16.7638, 22.1639

# Trichromacy



## Original Color

12.5708, 16.8709, 8.2241

## Protanomaly

14.1845, 16.6385, 7.7741

## Deuteranomaly

15.0398, 16.5545, 8.3639

## Tritanomaly

14.1836, 16.8102, 15.8617

# Monochromacy



## Original Color

12.5708, 16.8709, 8.2241

## Achromatopsia

14.2537, 14.9960, 16.3306

## Achromatomaly

13.4050, 15.4432, 12.8640

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 12.5708, 16.8709, 8.2241 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(92, 123, 69) looks like.

```
.text, #text, p{  
  color:rgb(92, 123, 69)  
}
```

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(92, 123, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(92, 123, 69) }
```

## Border

The CSS property to change the border of an element to XYZ 12.5708, 16.8709, 8.2241 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(92, 123, 69) }
```



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

```
.border{ border-color:rgb(92, 123, 69) }
```

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

Here you see how a box with a 4 pixel rgb(92, 123, 69) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(92, 123, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(92, 123, 69);  
box-shadow:4px 4px 4px 4px rgb(92, 123,  
69) }
```

# Background

The CSS property to change the background color of an element to XYZ 12.5708, 16.8709, 8.2241 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(92, 123, 69) }
```

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

```
.background{ background-color: rgb(92, 123,  
69) }
```

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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