

Converting Colors

XYZ(12.2931, 17.5316, 12.7803)

Have a look what the booklet for
XYZ(12.2931, 17.5316, 12.7803)
contains.

XYZ(12.3234, 17.5888, 12.8707)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.3234, 17.5888,
12.8707)**

Conversions

Conversions Part 1

Format	Color
Hex	48805C
RGB	72, 128, 92
RGB Percent	28%, 50%, 36%
CMY	0.7176, 0.4980, 0.6392
CMYK	0.44, 0.00, 0.28, 0.50
HSL	141°, 28%, 39%
HSV	141°, 44%, 50%
XYZ	12.3234, 17.5888, 12.8707
YIQ	107.1520, -21.8200, -23.0680

Conversions

Conversions Part 2

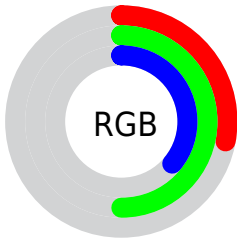
Format	Color
R_{YB}	72, 113, 128
Decimal	4751452
CIE _{Lab}	48.99, -27.08, 13.90
CIE _{LCh}	49, 30.439, 152.822
Yxy	17.5888, 0.2880, 0.4111
Android (android.graphics.Color)	4282941532 (0xFF48805C)
YUV	107.1520, -7.4699, -30.8283
Hunter-Lab	41.9390, -20.9426, 11.1617

Details

The XYZ color **12.3234, 17.5888, 12.8707** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **13.9268, 10.3069, 15.4433**, and the grayscale version is **14.0421, 14.7733, 16.0882**.

A 20% lighter version of the original color is **29.5747, 39.2117, 31.6010**, and **3.5268, 5.8055, 3.5195** is the 20% darker color. If you saturate the color by 10%, you get **11.1264, 17.0115, 11.0380**, and if you desaturate by 10%, it is **13.7592, 18.2856, 14.9193**.

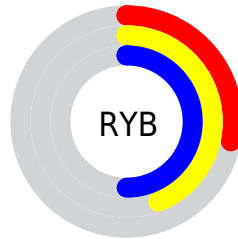
Distribution



Red (28%)

Green (50%)

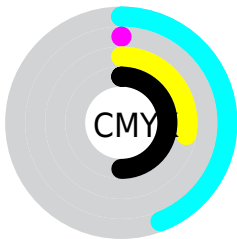
Blue (36%)



Red (28%)

Yellow (44%)

Blue (50%)

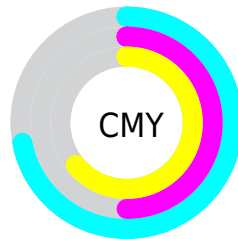


Cyan (44%)

Magenta (0%)

Yellow (28%)

Black (50%)



Cyan (72%)

Magenta (50%)

Yellow (64%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3234, 17.5888, 12.8707 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 12.3234, 17.5888, 12.8707 by changing the saturation by 10% instead.

■ 12.3234, 17.5888,
12.8707

■ 12.3234, 17.5888,
12.8707

200.2612,
238.5430, 221.2660

■ 7.0381, 10.6552,
7.2099

■ 29.6945, 39.3354,
31.7591

■ 3.5325, 5.8355,
3.5133

■ 42.5111, 54.9171,
45.8237

■ 1.4412, 2.7453,
1.3623

■ 58.5687, 74.1504,
63.5267

■ 0.2853, 1.0002,
0.1121

■ 78.2328, 97.4196,
85.2866

■ 0.0000, 0.0000,
0.0000

■ 101.8688,
125.1090, 111.5219

129.8419,

157.6031, 142.6513

162.5176,
195.2863, 179.0931

■ 12.3234, 17.5888,
12.8707

■ 12.3234, 17.5888,
12.8707

■ 11.1264, 17.0115,
11.0380

■ 13.7592, 18.2856,
14.9193

■ 10.1530, 16.5447,
9.4130

■ 15.4448, 19.1061,
17.1895

■ 9.3887, 16.1814,
7.9884

■ 17.3925, 20.0569,
19.6881

■ 8.8162, 15.9130,
6.7563

■ 19.6131, 21.1434,
22.4213

■ 8.4141, 15.7284,
5.7080

■ 22.1168, 22.3709,
25.3952

■ 8.2071, 15.6341,
5.1406

■ 24.9134, 23.7442,
28.6153

■ 28.0122, 25.2681,
32.0874

■ 31.4219, 26.9468,
35.8167

■ 35.1511, 28.7848,
39.8085

Harmonies

Analogous

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



13.9344, 17.5888, 8.8021



12.3234, 17.5888, 12.8707



11.8442, 17.5888, 19.9299

Triad

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



12.3234, 17.5888, 12.8707



16.9874, 17.5888, 39.3503



21.7279, 17.5888, 11.8763

Complementary

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



12.3234, 17.5888, 12.8707



13.9268, 10.3069, 15.4433

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.



22.7724, 17.5888, 18.3931



12.3234, 17.5888, 12.8707



19.8487, 17.5888, 35.4879

Square

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



12.3234, 17.5888, 12.8707



14.3501, 17.5888, 36.6598



22.0490, 17.5888, 27.2006



19.3322, 17.5888, 8.3524

Rectangle

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



12.3234, 17.5888, 12.8707



12.1811, 17.5888, 25.8647



22.0490, 17.5888, 27.2006



22.2602, 17.5888, 13.7133

Sweetspot

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



12.3239, 17.5895, 12.8711



30.7870, 35.3928, 34.8709



15.1226, 19.1204, 9.0245



7.0445, 8.2065, 7.9584



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901

Same Dimension

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



12.3239, 17.5895, 12.8711



19.5000, 29.9073, 19.2912



13.7581, 18.1632, 20.4238



4.3346, 4.8422, 4.9330



8.1382, 15.5018, 5.1003



0.0000, 0.0000, 0.0000

Inverse Universe

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



13.9268, 10.3069, 15.4433



22.7203, 15.2467, 24.4373



12.6827, 9.8093, 8.8922



4.4350, 4.3871, 5.0951



10.3487, 5.1592, 8.4258



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.3234, 17.5888, 12.8707 looks on a white background.

Color Contrast Check

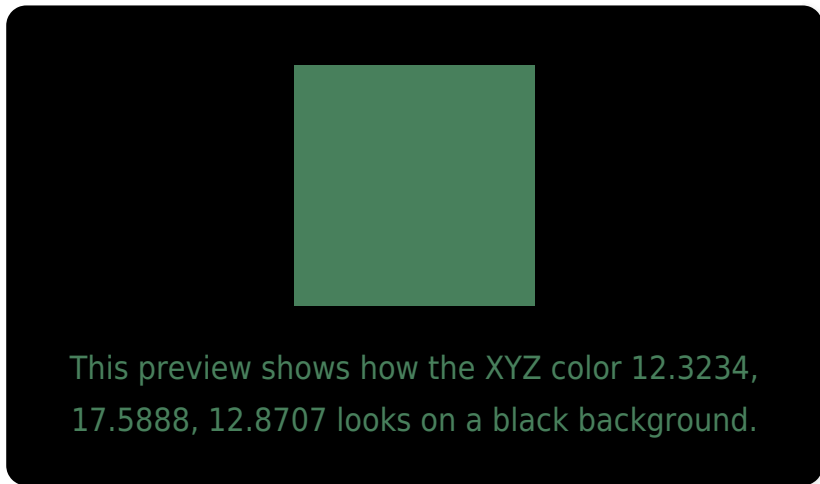
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



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 12.3234, 17.5888, 12.8707

Background



This preview shows how black text looks on a background with the XYZ color 12.3234, 17.5888, 12.8707.



This preview shows how white text looks on a background with the XYZ color 12.3234, 17.5888,

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

12.3234, 17.5888, 12.8707

Protanopia

16.2373, 17.4478, 11.3161

Deuteranopia

17.6273, 17.2817, 13.4730



Tritanopia

14.7099, 17.6087, 24.8138

Trichromacy



Original Color

12.3234, 17.5888, 12.8707

Protanomaly

14.3036, 17.1408, 11.7871

Deuteranomaly

14.9824, 16.9283, 13.3043

Tritanomaly

13.7455, 17.5949, 19.8112

Monochromacy



Original Color

12.3234, 17.5888, 12.8707

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.1451, 15.6005, 14.8887

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3234, 17.5888, 12.8707 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(72, 128, 92)` looks like.

```
.text, #text, p{  
    color:rgb(72, 128, 92)  
}
```

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(72, 128, 92) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 128, 92) }
```

Border

The CSS property to change the border of an element to XYZ 12.3234, 17.5888, 12.8707 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(72, 128, 92) }
```


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

```
.border{ border-color:rgb(72, 128, 92) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 128, 92)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 128, 92); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 128, 92);  
box-shadow:4px 4px 4px 4px rgb(72, 128,  
92) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3234, 17.5888, 12.8707 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 128, 92) }
```

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

```
.background{ background-color: rgb(72, 128,  
92) }
```

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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