

Converting Colors

XYZ(12.4258, 16.4209, 0.8069)

Have a look what the booklet for
XYZ(12.4258, 16.4209, 0.8069)
contains.

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Color

**XYZ(12.7799, 16.5587,
2.5226)**

Conversions

Conversions Part 1

Format	Color
Hex	6B7800
RGB	107, 120, 0
RGB Percent	42%, 47%, 0%
CMY	0.5804, 0.5294, 1.0000
CMYK	0.11, 0.00, 1.00, 0.53
HSL	67°, 100%, 24%
HSV	67°, 100%, 47%
XYZ	12.7799, 16.5587, 2.5226
YIQ	102.4330, 30.7720, -40.0760

Conversions

Conversions Part 2

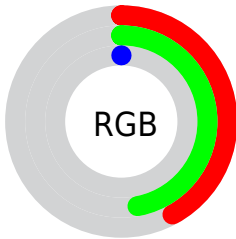
Format	Color
RYB	0, 120, 13
Decimal	7043072
CIELab	47.70, -18.41, 52.81
CIELCh	48, 55.928, 109.221
Yxy	16.5587, 0.4011, 0.5197
Android (android.graphics.Color)	4285233152 (0xFF6B7800)
YUV	102.4330, -50.4995, 4.0053
Hunter-Lab	40.6924, -15.1517, 24.8092

Details

The XYZ color **12.7799, 16.5587, 2.5226** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **3.5566, 1.4420, 17.8611**, and the grayscale version is **12.8662, 13.5363, 14.7410**.

A 20% lighter version of the original color is **30.5782, 37.5566, 10.4880**, and **3.8929, 5.4470, 0.8462** is the 20% darker color. If you saturate the color by 10%, you get **12.7801, 16.5594, 2.5227**, and if you desaturate by 10%, it is **13.0042, 16.6672, 2.8798**.

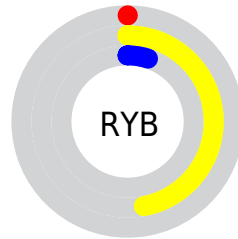
Distribution



Red (42%)

Green (47%)

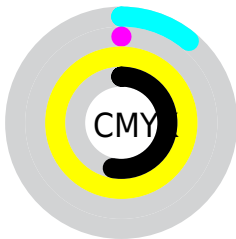
Blue (0%)



Red (0%)

Yellow (47%)

Blue (5%)

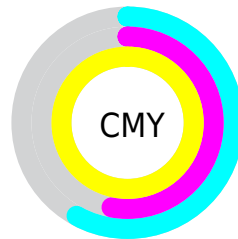


Cyan (11%)

Magenta (0%)

Yellow (100%)

Black (53%)



Cyan (58%)

Magenta (53%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7799, 16.5587, 2.5226 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 12.7799, 16.5587, 2.5226 by changing the saturation by 10% instead.

■ 12.7799, 16.5587,
2.5226

■ 12.7799, 16.5587,
2.5226

203.1685,
232.6163, 130.0265

■ 7.3531, 9.9204,
0.8521

■ 30.5125, 37.5655,
10.4258

■ 3.7322, 5.3462,
0.0000

■ 43.5490, 52.7027,
17.4998

■ 1.5518, 2.4518,
0.0000

■ 59.8528, 71.4416,
27.2135

■ 0.3607, 0.8523,
0.0000


■ 79.7892, 94.1667,
39.9855


■ 0.0000, 0.0000,
0.0000


■ 103.7236,
121.2623, 56.2343


■ 132.0214,


153.1128, 76.3783


 165.0479,
190.1027, 100.8362


 12.7799, 16.5587,
2.5226


 12.7799, 16.5587,
2.5226


 12.7801, 16.5594,
2.5227

 13.0042, 16.6672,
2.8798

 13.2626, 16.7891,
3.4062

 13.5785, 16.9342,
4.2228

 13.9583, 17.1051,
5.3633

 14.4075, 17.3041,
6.8570

■ 14.9311, 17.5331,
8.7299

■ 15.5336, 17.7939,
11.0055

■ 16.2190, 18.0883,
13.7055

■ 16.9913, 18.4176,
16.8498

Harmonies

Analogous

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



17.6067, 16.5587, 2.2502



12.7799, 16.5587, 2.5226



9.5213, 16.5587, 5.3595

Triad

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



12.7799, 16.5587, 2.5226



10.2555, 16.5587, 47.9638



27.2032, 16.5587, 23.6873

Complementary

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



12.7799, 16.5587, 2.5226



3.5566, 1.4420, 17.8611

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.



24.2025, 16.5587, 42.6674



12.7799, 16.5587, 2.5226



14.0074, 16.5587, 60.8813

Square

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



12.7799, 16.5587, 2.5226



8.2917, 16.5587, 28.7026



19.1218, 16.5587, 58.5498



26.6789, 16.5587, 10.3970

Rectangle

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



12.7799, 16.5587, 2.5226



8.3503, 16.5587, 9.9168



19.1218, 16.5587, 58.5498



26.5519, 16.5587, 29.6732

Sweetspot

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



12.7803, 16.5595, 2.5229



27.2359, 31.2588, 19.0336



7.8777, 4.2564, 0.4066



6.3660, 7.3697, 4.1720



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



12.7803, 16.5595, 2.5229



22.4096, 29.0889, 4.4336



7.9361, 14.0622, 2.2962



4.2670, 4.6129, 4.2900



13.9346, 18.0608, 2.7516



66.0326, 85.9265, 13.1052

Inverse Universe

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



3.5566, 1.4420, 17.8611



6.1913, 2.5029, 31.4099



6.0633, 2.7342, 17.9784



3.8343, 3.9124, 4.9963



3.8725, 1.5691, 19.4841



18.1036, 7.2947, 92.9236

Previews

White Background



This preview shows how the XYZ color 12.7799, 16.5587, 2.5226 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 12.7799, 16.5587, 2.5226 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

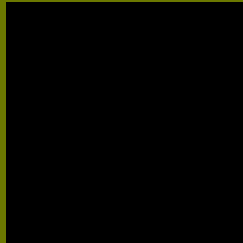
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7799, 16.5587, 2.5226

Background



This preview shows how black text looks on a background with the XYZ color 12.7799, 16.5587, 2.5226.



This preview shows how white text looks on a background with the XYZ color 12.7799, 16.5587,

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

12.7799, 16.5587, 2.5226

Protanopia

14.8072, 16.3994, 2.3850

Deuteranopia

16.7117, 16.4055, 2.9476



Tritanopia

16.3868, 16.6574, 20.1208

Trichromacy



Original Color

12.7799, 16.5587, 2.5226

Protanomaly

13.9911, 16.4839, 2.4443

Deuteranomaly

15.0727, 16.3632, 2.7448

Tritanomaly

14.2453, 16.2940, 9.2317

Monochromacy



Original Color

12.7799, 16.5587, 2.5226

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

12.1317, 14.2620, 7.1145

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7799, 16.5587, 2.5226 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(107, 120, 0)` looks like.

```
.text, #text, p{  
    color:rgb(107, 120, 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(107, 120, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 120, 0) }
```

Border

The CSS property to change the border of an element to XYZ 12.7799, 16.5587, 2.5226 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(107, 120, 0) }
```


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

```
.border{ border-color:rgb(107, 120, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(107, 120, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 120, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 120, 0);  
box-shadow:4px 4px 4px 4px rgb(107, 120,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7799, 16.5587, 2.5226 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 120, 0) }
```

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

```
.background{ background-color: rgb(107,  
120, 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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