

Converting Colors

XYZ(12.9486, 14.5676, 33.5821)

Have a look what the booklet for
XYZ(12.9486, 14.5676, 33.5821)
contains.

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Color

**XYZ(12.9672, 14.5930,
33.5858)**

Conversions

Conversions Part 1

Format	Color
Hex	2F709C
RGB	47, 112, 156
RGB Percent	18%, 44%, 61%
CMY	0.8157, 0.5608, 0.3882
CMYK	0.70, 0.28, 0.00, 0.39
HSL	204°, 54%, 40%
HSV	204°, 70%, 61%
XYZ	12.9672, 14.5930, 33.5858
YIQ	97.5810, -52.8640, -0.0960

Conversions

Conversions Part 2

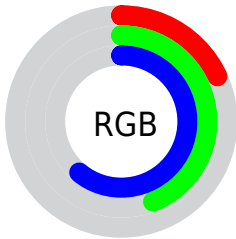
Format	Color
RYB	47, 88, 156
Decimal	3109020
CIELab	45.07, -5.84, -29.84
CIElCh	45, 30.404, 258.923
Yxy	14.5930, 0.2121, 0.2387
Android (android.graphics.Color)	4281299100 (0xFF2F709C)
YUV	97.5810, 28.8006, -44.3595
Hunter-Lab	38.2008, -6.2598, -25.3867

Details

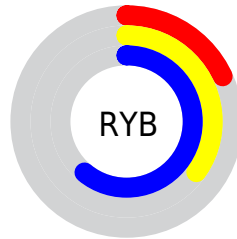
The XYZ color **12.9672, 14.5930, 33.5858** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **17.9652, 14.7563, 4.5913**, and the grayscale version is **11.4465, 12.0426, 13.1144**.

A 20% lighter version of the original color is **30.9772, 34.3182, 66.6194**, and **4.3321, 4.6663, 13.7691** is the 20% darker color. If you saturate the color by 10%, you get **11.7018, 12.9452, 33.3347**, and if you desaturate by 10%, it is **14.5393, 16.4716, 33.8658**.

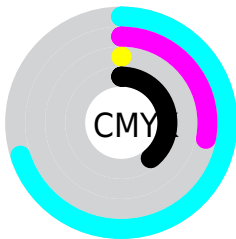
Distribution



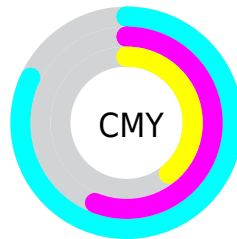
- Red (18%)
- Green (44%)
- Blue (61%)



- Red (18%)
- Yellow (35%)
- Blue (61%)



- Cyan (70%)
- Magenta (28%)
- Yellow (0%)
- Black (39%)



- Cyan (82%)
- Magenta (56%)
- Yellow (39%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9672, 14.5930, 33.5858 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 12.9672, 14.5930, 33.5858 by changing the saturation by 10% instead.

■ 12.9672, 14.5930,
33.5858

■ 12.9672, 14.5930,
33.5858

■ 204.3492,
220.8894, 332.9938

■ 7.4828, 8.5342,
22.3008

■ 30.8467, 34.1376,
66.4155

■ 3.8148, 4.4387,
13.8777

■ 43.9724, 48.3922,
88.7974

■ 1.5979, 1.9218,
7.8978

■ 60.3761, 66.1476,
115.7152

■ 0.3911, 0.5615,
3.9428

■ 80.4229, 87.7881,
147.5877

■ 0.0000, 0.0000,
1.5940

■ 104.4782,
113.6981, 184.8332

■ 0.0000, 0.0000,
0.2866

■ 132.9075,

■ 0.0000, 0.0000,

144.2621, 227.8703

0.0000

166.0760,
179.8643, 277.1177

■ 12.9672, 14.5930,
33.5858

■ 12.9672, 14.5930,
33.5858

■ 11.7018, 12.9452,
33.3347

■ 14.5393, 16.4716,
33.8658

■ 10.7117, 11.5097,
33.1098

■ 16.4422, 18.5940,
34.1752

■ 9.9273, 10.2496,
32.9079

■ 18.6991, 20.9739,
34.5156

■ 9.9175, 10.2336,
32.9054

■ 21.3305, 23.6232,
34.8883

■ 24.3552, 26.5528,
35.2944

■ 27.7908, 29.7732,
35.7349

■ 31.6536, 33.2939,
36.2109

■ 35.9592, 37.1243,
36.7233

■ 40.7222, 41.2730,
37.2730

Harmonies

Analogous

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



10.9460, 14.5930, 28.6871



12.9672, 14.5930, 33.5858



15.4879, 14.5930, 32.7893

Triad

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



12.9672, 14.5930, 33.5858



18.9312, 14.5930, 11.8306



10.5536, 14.5930, 8.4528

Complementary

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



12.9672, 14.5930, 33.5858



17.9652, 14.7563, 4.5913

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.



12.3693, 14.5930, 6.1018



12.9672, 14.5930, 33.5858



17.2738, 14.5930, 7.6082

Square

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



12.9672, 14.5930, 33.5858



19.1414, 14.5930, 18.6831



14.8142, 14.5930, 5.8479



9.6682, 14.5930, 13.3889

Rectangle

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



12.9672, 14.5930, 33.5858



17.1141, 14.5930, 29.1830



14.8142, 14.5930, 5.8479



11.0646, 14.5930, 7.4065

Sweetspot

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



12.9677, 14.5935, 33.5862



43.3374, 47.3695, 63.9858



14.9324, 25.1302, 13.8718



9.2204, 10.1198, 14.0377



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



12.9677, 14.5935, 33.5862



20.1544, 21.9563, 60.3025



8.6817, 6.0214, 32.1575



6.5970, 7.0598, 8.4217



8.2035, 8.4984, 27.1152



0.1874, 0.2334, 0.4984

Inverse Universe

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



17.6519, 10.2714, 16.3819



29.7966, 15.6496, 24.3074



24.3645, 27.5550, 6.7245



6.7907, 6.7092, 7.7489



12.9389, 6.4801, 9.1954



0.2519, 0.1241, 0.2727

Previews

White Background



This preview shows how the XYZ color 12.9672, 14.5930, 33.5858 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 12.9672, 14.5930, 33.5858 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

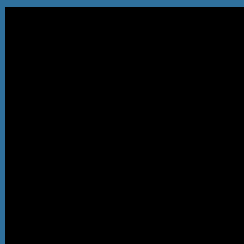
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

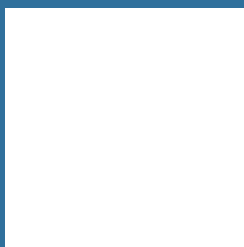
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.9672, 14.5930, 33.5858

Background



This preview shows how black text looks on a background with the XYZ color 12.9672, 14.5930, 33.5858.



This preview shows how white text looks on a background with the XYZ color 12.9672, 14.5930,

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

12.9672, 14.5930, 33.5858

Protanopia

14.9702, 14.5805, 30.8795

Deuteranopia

14.9817, 14.6615, 34.3881



Tritanopia

10.5930, 14.4616, 22.3117

Trichromacy



Original Color

12.9672, 14.5930, 33.5858

Protanomaly

14.0105, 14.5286, 31.7716

Deuteranomaly

14.0469, 14.4990, 33.9565

Tritanomaly

11.3454, 14.4198, 26.2301

Monochromacy



Original Color

12.9672, 14.5930, 33.5858

Achromatopsia

11.6093, 12.2139, 13.3009

Achromatomaly

11.4045, 12.6947, 19.3020

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9672, 14.5930, 33.5858 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(47, 112, 156)` looks like.

```
.text, #text, p{  
    color:rgb(47, 112, 156)  
}
```

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(47, 112, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 112, 156) }
```

Border

The CSS property to change the border of an element to XYZ 12.9672, 14.5930, 33.5858 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(47, 112, 156) }
```


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

```
.border{ border-color:rgb(47, 112, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 112, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 112, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 112, 156);  
box-shadow:4px 4px 4px 4px rgb(47, 112,  
156) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9672, 14.5930, 33.5858 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 112, 156) }
```

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

```
.background{ background-color: rgb(47, 112,  
156) }
```

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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