

Converting Colors

XYZ(12.2061, 12.2013, 30.5999)

Have a look what the booklet for
XYZ(12.2061, 12.2013, 30.5999)
contains.

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Color

**XYZ(12.1874, 12.1307,
30.5533)**

Conversions

Conversions Part 1

Format	Color
Hex	436296
RGB	67, 98, 150
RGB Percent	26%, 38%, 59%
CMY	0.7372, 0.6157, 0.4118
CMYK	0.55, 0.35, 0.00, 0.41
HSL	218°, 38%, 43%
HSV	218°, 55%, 59%
XYZ	12.1874, 12.1307, 30.5533
YIQ	94.6590, -35.1680, 9.6000

Conversions

Conversions Part 2

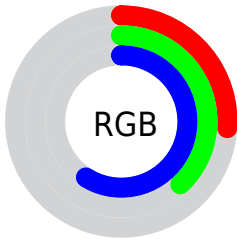
Format	Color
RYB	67, 90, 150
Decimal	4416150
CIELab	41.42, 4.62, -31.93
CIELCh	41, 32.264, 278.230
Yxy	12.1307, 0.2221, 0.2211
Android (android.graphics.Color)	4282606230 (0xFF436296)
YUV	94.6590, 27.2831, -24.2569
Hunter-Lab	34.8292, 1.5096, -27.6308

Details

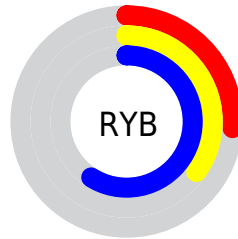
The XYZ color **12.1874, 12.1307, 30.5533** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **20.1880, 20.0834, 8.1231**, and the grayscale version is **10.7392, 11.2985, 12.3040**.

A 20% lighter version of the original color is **29.3741, 29.6044, 61.2928**, and **3.4801, 3.3568, 12.2689** is the 20% darker color. If you saturate the color by 10%, you get **10.4609, 10.0112, 30.2354**, and if you desaturate by 10%, it is **14.2844, 14.5949, 30.9187**.

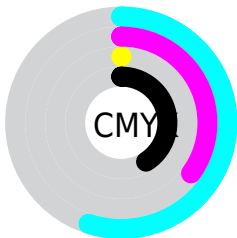
Distribution



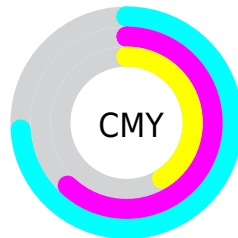
- Red (26%)
- Green (38%)
- Blue (59%)



- Red (26%)
- Yellow (35%)
- Blue (59%)



- Cyan (55%)
- Magenta (35%)
- Yellow (0%)
- Black (41%)



- Cyan (74%)
- Magenta (62%)
- Yellow (41%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.1874, 12.1307, 30.5533 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 12.1874, 12.1307, 30.5533 by changing the saturation by 10% instead.

■ 12.1874, 12.1307,
30.5533

■ 12.1874, 12.1307,
30.5533

199.3867,
205.2686, 318.7623

■ 6.9445, 6.8328,
20.0033

■ 29.4499, 29.7329,
61.6074

■ 3.4735, 3.3577,
12.2134

■ 42.2002, 42.8060,
82.9486

■ 1.4088, 1.3212,
6.7649

■ 58.1837, 59.2396,
108.7240

■ 0.2625, 0.1575,
3.2393

■ 77.7658, 79.4180,
139.3521

■ 0.0000, 0.0000,
1.2181

■ 101.3117,
103.7258, 175.2514

■ 0.0000, 0.0000,
0.0000

129.1870,

132.5472, 216.8405

161.7568,
166.2667, 264.5380

■ 12.1874, 12.1307,
30.5533

■ 12.1874, 12.1307,
30.5533

■ 10.4609, 10.0112,
30.2354

■ 14.2844, 14.5949,
30.9187

■ 9.0790, 8.2172,
29.9620

■ 16.7728, 17.4189,
31.3326

■ 8.0142, 6.7291,
29.7309

■ 19.6733, 20.6185,
31.7973

■ 7.2302, 5.5222,
29.5392

■ 23.0048, 24.2080,
32.3146

■ 6.9204, 5.0327,
29.4611

■ 26.7848, 28.2008,
32.8860

■ 31.0300, 32.6098,
33.5133

■ 35.7561, 37.4472,
34.1979

■ 40.9781, 42.7246,
34.9413

■ 46.7102, 48.4533,
35.7450

Harmonies

Analogous

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



9.9372, 12.1307, 29.1957



12.1874, 12.1307, 30.5533



14.5511, 12.1307, 26.1701

Triad

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



12.1874, 12.1307, 30.5533



15.4468, 12.1307, 6.7206



7.8290, 12.1307, 8.9746

Complementary

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



12.1874, 12.1307, 30.5533



20.1880, 20.0834, 8.1231

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.



8.9587, 12.1307, 5.4398



12.1874, 12.1307, 30.5533



13.2843, 12.1307, 4.4794

Square

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



12.1874, 12.1307, 30.5533



16.5927, 12.1307, 11.4447



10.8964, 12.1307, 4.1070



7.6184, 12.1307, 15.1443

Rectangle

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



12.1874, 12.1307, 30.5533



15.8036, 12.1307, 21.2404



10.8964, 12.1307, 4.1070



8.1057, 12.1307, 7.5092

Sweetspot

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



12.1879, 12.1311, 30.5536



39.3578, 41.3962, 56.8371



16.5024, 24.3187, 21.0214



8.4852, 8.9197, 12.5593



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.1879, 12.1311, 30.5536



17.9342, 16.9997, 53.2573



10.5477, 7.7814, 29.8005



5.6664, 5.9667, 7.3228



5.7684, 4.2317, 24.4438



0.0972, 0.1051, 0.3081

Inverse Universe

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



16.7898, 11.3806, 12.8675



27.1570, 16.5340, 17.5798



22.7885, 27.8213, 9.4796



5.8850, 5.8491, 6.5008



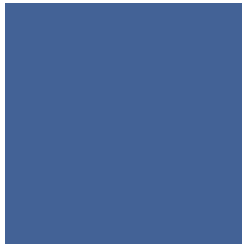
11.0387, 5.6205, 3.6850



0.1485, 0.0742, 0.1159

Previews

White Background



This preview shows how the XYZ color 12.1874, 12.1307, 30.5533 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 12.1874, 12.1307, 30.5533 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

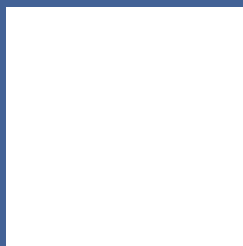
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.1874, 12.1307, 30.5533

Background



This preview shows how black text looks on a background with the XYZ color 12.1874, 12.1307, 30.5533.



This preview shows how white text looks on a background with the XYZ color 12.1874, 12.1307,

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

12.1874, 12.1307, 30.5533

Protanopia

12.7526, 12.1661, 29.6931

Deuteranopia

12.3782, 12.0910, 30.5356



Tritanopia

9.5570, 12.0749, 17.7466

Trichromacy



Original Color

12.1874, 12.1307, 30.5533

Protanomaly

12.6012, 12.2152, 30.1274

Deuteranomaly

12.3055, 12.0535, 30.5321

Tritanomaly

10.3271, 11.9346, 21.8380

Monochromacy



Original Color

12.1874, 12.1307, 30.5533

Achromatopsia

10.8771, 11.4435, 12.4620

Achromatomaly

11.0237, 11.5348, 17.8651

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.1874, 12.1307, 30.5533 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(67, 98, 150)` looks like.

```
.text, #text, p{  
    color:rgb(67, 98, 150)  
}
```

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(67, 98, 150) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(67, 98, 150) }
```

Border

The CSS property to change the border of an element to XYZ 12.1874, 12.1307, 30.5533 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(67, 98, 150) }
```


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

```
.border{ border-color:rgb(67, 98, 150) }
```

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

Here you see how a box with a 4 pixel `rgb(67, 98, 150)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(67, 98, 150); -webkit-box-  
shadow:4px 4px 4px 4px rgb(67, 98, 150);  
box-shadow:4px 4px 4px 4px rgb(67, 98,  
150) }
```

Background

The CSS property to change the background color of an element to XYZ 12.1874, 12.1307, 30.5533 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(67, 98, 150) }
```

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

```
.background{ background-color: rgb(67, 98,  
150) }
```

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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