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

Format	Color
	Conversions Part 1
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

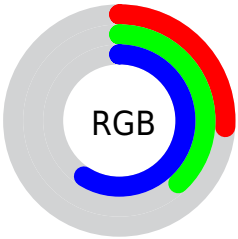
Format	Color
RYB	67, 90, 150
Decimal	4416150
CIELab	41.42, 4.62, -31.93
CIELCh	41, 32.264, 278.230
Yxy	12.1307, 0.2221, 0.2211
Android (android.graphics.Color)	4282606230 (0xFF436296)
YUV	94.6590, 27.2831, -24.2569
Hunter-Lab	34.8292, 1.5096, -27.6308

Details

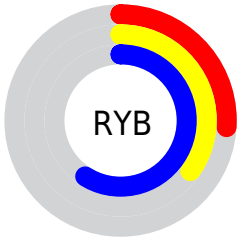
The XYZ color 12.1874, 12.1307, 30.5533 is a dark color, and the websafe version is hex 336699. A complement of this color would be 20.1880, 20.0834, 8.1231, and the grayscale version is 10.7392, 11.2985, 12.3040.

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.

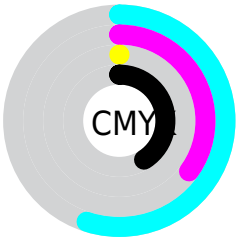
Distribution



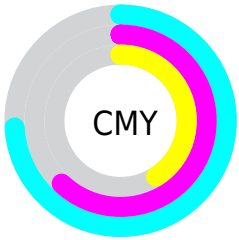
- Red (26%)
- Green (38%)
- Blue (59%)



- 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

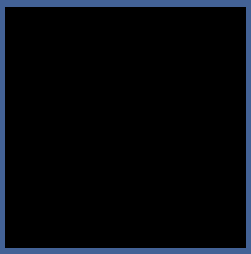
This preview shows how the XYZ color 12.1874, 12.1307, 30.5533 looks on a black background.

Color Contrast Check

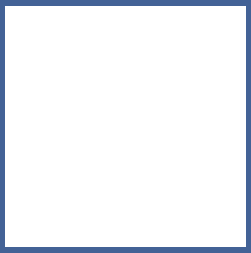
Large Text (above 18pt) WCAG AA ✓ Pass
Any Text WCAG AA × Fail
Large Text (above 18pt) WCAG AAA × Fail
Any Text WCAG AAA × Fail

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,

30.5533.

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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