

Converting Colors

XYZ(12.3901, 13.3326, 33.6213)

Have a look what the booklet for
XYZ(12.3901, 13.3326, 33.6213)
contains.

XYZ(12.4121, 13.3467, 33.8203)	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(12.4121, 13.3467,
33.8203)**

Conversions

Conversions Part 1

Format	Color
Hex	2F6A9D
RGB	47, 106, 157
RGB Percent	18%, 42%, 62%
CMY	0.8157, 0.5843, 0.3843
CMYK	0.70, 0.32, 0.00, 0.38
HSL	208°, 54%, 40%
HSV	208°, 70%, 62%
XYZ	12.4121, 13.3467, 33.8203
YIQ	94.1730, -51.5350, 3.3530

Conversions

Conversions Part 2

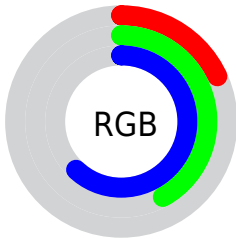
Format	Color
RYB	47, 85, 157
Decimal	3107485
CIELab	43.28, -1.85, -33.24
CIELCh	43, 33.290, 266.814
Yxy	13.3467, 0.2083, 0.2240
Android (android.graphics.Color)	4281297565 (0xFF2F6A9D)
YUV	94.1730, 30.9737, -41.3707
Hunter-Lab	36.5331, -3.2878, -29.3141

Details

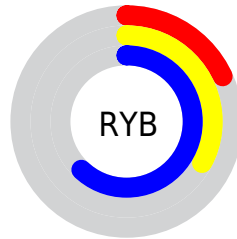
The XYZ color **12.4121, 13.3467, 33.8203** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **18.7862, 16.1099, 4.8094**, and the grayscale version is **10.6185, 11.1715, 12.1658**.

A 20% lighter version of the original color is **29.8845, 31.9316, 66.8757**, and **4.1138, 4.1479, 13.9484** is the 20% darker color. If you saturate the color by 10%, you get **11.0957, 11.6015, 33.5531**, and if you desaturate by 10%, it is **14.0535, 15.3544, 34.1216**.

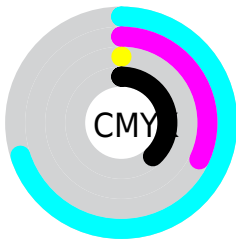
Distribution



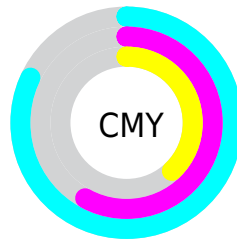
- Red (18%)
- Green (42%)
- Blue (62%)



- Red (18%)
- Yellow (33%)
- Blue (62%)



- Cyan (70%)
- Magenta (32%)
- Yellow (0%)
- Black (38%)



- Cyan (82%)
- Magenta (58%)
- Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4121, 13.3467, 33.8203 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 12.4121, 13.3467, 33.8203 by changing the saturation by 10% instead.

■ 12.4121, 13.3467,
33.8203

■ 12.4121, 13.3467,
33.8203

■ 200.8294,
213.1278, 334.0747

■ 7.0992, 7.6677,
22.4793

■ 29.8539, 31.9253,
66.7848

■ 3.5711, 3.8831,
14.0079

■ 42.7134, 45.5936,
89.2455

■ 1.4625, 1.6084,
7.9873

■ 58.8192, 62.6939,
116.2497

■ 0.3001, 0.3632,
3.9992

■ 78.5366, 83.6105,
148.2162

■ 0.0000, 0.0000,
1.6249

■ 102.2310,
108.7278, 185.5634

■ 0.0000, 0.0000,
0.3085

■ 130.2677,

■ 0.0000, 0.0000,

138.4302, 228.7098

0.0000

163.0120,
173.1021, 278.0741

■ 12.4121, 13.3467,
33.8203

■ 12.4121, 13.3467,
33.8203

■ 11.0957, 11.6015,
33.5531

■ 14.0535, 15.3544,
34.1216

■ 10.0719, 10.0991,
33.3171

■ 16.0452, 17.6393,
34.4577

■ 9.2722, 8.8071,
33.1098

■ 18.4111, 20.2162,
34.8303

■ 21.1728, 23.0981,
35.2410

■ 24.3498, 26.2973,
35.6911

■ 27.9605, 29.8252,
36.1817

■ 32.0220, 33.6925,
36.7142

■ 36.5504, 37.9095,
37.2894

■ 41.5611, 42.4859,
37.9087

Harmonies

Analogous

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



10.1607, 13.3467, 29.9495



12.4121, 13.3467, 33.8203



15.0563, 13.3467, 31.2457

Triad

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



12.4121, 13.3467, 33.8203



17.6450, 13.3467, 9.0219



8.9722, 13.3467, 8.0633

Complementary

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



12.4121, 13.3467, 33.8203



18.7862, 16.1099, 4.8094

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.



10.5779, 13.3467, 5.1863



12.4121, 13.3467, 33.8203



15.5976, 13.3467, 5.5936

Square

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



12.4121, 13.3467, 33.8203



18.3079, 13.3467, 15.3357



12.9632, 13.3467, 4.4654



8.3512, 13.3467, 13.7574

Rectangle

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



12.4121, 13.3467, 33.8203



16.6551, 13.3467, 26.5770



12.9632, 13.3467, 4.4654



9.4030, 13.3467, 6.8197

Sweetspot

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



12.4126, 13.3472, 33.8206



42.7983, 46.2913, 63.8061



15.3643, 25.5725, 15.3145



9.0897, 9.8586, 13.9942



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.



12.4126, 13.3472, 33.8206



18.7914, 19.2301, 59.8481



8.5091, 5.5402, 32.5195



6.5645, 6.9948, 8.4108



7.5681, 7.2277, 26.9034



0.1774, 0.2135, 0.4951

Inverse Universe

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



17.5231, 10.2423, 14.6894



29.1086, 15.3743, 20.6844



25.5654, 29.6683, 7.0691



6.7743, 6.7026, 7.6626



12.6182, 6.3519, 7.5065



0.2469, 0.1221, 0.2462

Previews

White Background



This preview shows how the XYZ color 12.4121, 13.3467, 33.8203 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 12.4121, 13.3467, 33.8203 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

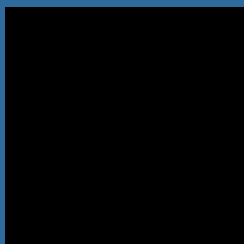
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

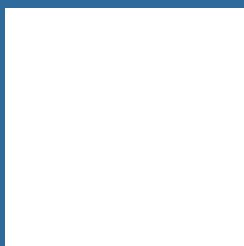
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.4121, 13.3467, 33.8203

Background



This preview shows how black text looks on a background with the XYZ color 12.4121, 13.3467, 33.8203.

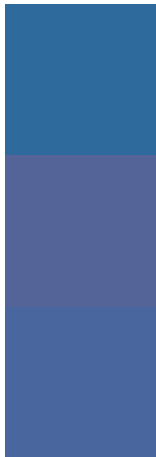


This preview shows how white text looks on a background with the XYZ color 12.4121, 13.3467,

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

12.4121, 13.3467, 33.8203

Protanopia

13.8808, 13.2662, 31.5348

Deuteranopia

13.6706, 13.3878, 34.2113



Tritanopia

9.6674, 13.3440, 20.4785

Trichromacy



Original Color

12.4121, 13.3467, 33.8203

Protanomaly

13.1826, 13.1754, 32.4202

Deuteranomaly

13.1362, 13.2591, 34.2147

Tritanomaly

10.4558, 13.1623, 24.9112

Monochromacy



Original Color

12.4121, 13.3467, 33.8203

Achromatopsia

10.6392, 11.1932, 12.1894

Achromatomaly

10.6391, 11.5975, 18.5074

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4121, 13.3467, 33.8203 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, 106, 157)` looks like.

```
.text, #text, p{  
    color:rgb(47, 106, 157)  
}
```

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, 106, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 106, 157) }
```

Border

The CSS property to change the border of an element to XYZ 12.4121, 13.3467, 33.8203 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, 106, 157) }
```


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

```
.border{ border-color:rgb(47, 106, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 106, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 106, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 106, 157);  
box-shadow:4px 4px 4px 4px rgb(47, 106,  
157) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4121, 13.3467, 33.8203 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 106, 157) }
```

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

```
.background{ background-color: rgb(47, 106,  
157) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor