

Converting Colors

XYZ(12.1009, 13.3591, 33.1616)

Have a look what the booklet for
XYZ(12.1009, 13.3591, 33.1616)
contains.

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Color

**XYZ(12.0492, 13.3331,
32.9488)**

Conversions

Conversions Part 1

Format	Color
Hex	286B9B
RGB	40, 107, 155
RGB Percent	16%, 42%, 61%
CMY	0.8431, 0.5804, 0.3922
CMYK	0.74, 0.31, 0.00, 0.39
HSL	205°, 59%, 38%
HSV	205°, 74%, 61%
XYZ	12.0492, 13.3331, 32.9488
YIQ	92.4390, -55.3400, 0.7240

Conversions

Conversions Part 2

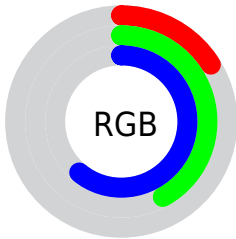
Format	Color
R_{YB}	40, 82, 155
Decimal	2648987
CIE _{Lab}	43.26, -4.26, -32.10
CIE _{LCh}	43, 32.381, 262.441
Yxy	13.3331, 0.2066, 0.2286
Android (android.graphics.Color)	4280839067 (0xFF286B9B)
YUV	92.4390, 30.8426, -45.9890
Hunter-Lab	36.5145, -4.9983, -27.9400

Details

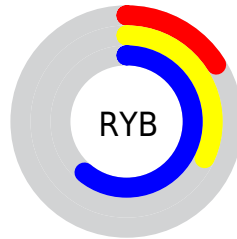
The XYZ color **12.0492, 13.3331, 32.9488** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **17.3912, 14.1026, 3.8137**, and the grayscale version is **10.2149, 10.7468, 11.7033**.

A 20% lighter version of the original color is **29.2265, 31.8736, 65.5846**, and **4.0640, 4.2110, 13.4306** is the 20% darker color. If you saturate the color by 10%, you get **10.9137, 11.7837, 32.7099**, and if you desaturate by 10%, it is **13.4779, 15.1089, 33.2166**.

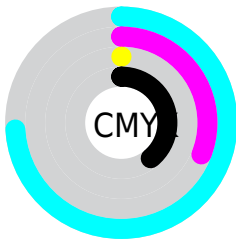
Distribution



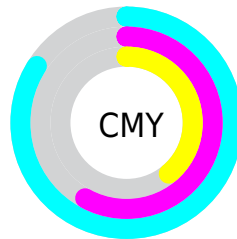
- Red (16%)
- Green (42%)
- Blue (61%)



- Red (16%)
- Yellow (32%)
- Blue (61%)



- Cyan (74%)
- Magenta (31%)
- Yellow (0%)
- Black (39%)



- Cyan (84%)
- Magenta (58%)
- Yellow (39%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0492, 13.3331, 32.9488 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 12.0492, 13.3331, 32.9488 by changing the saturation by 10% instead.

■ 12.0492, 13.3331,
32.9488

■ 12.0492, 13.3331,
32.9488

■ 198.4940,
213.0416, 330.0439

■ 6.8496, 7.6583,
21.8164

■ 29.2008, 31.9009,
65.4107

■ 3.4137, 3.8771,
13.5251

■ 41.8835, 45.5628,
87.5773

■ 1.3761, 1.6051,
7.6561

■ 57.7913, 62.6557,
114.2590

■ 0.2391, 0.3610,
3.7911

■ 77.2895, 83.5643,
145.8744

■ 0.0000, 0.0000,
1.5115

■ 100.7435,
108.6727, 182.8421

■ 0.0000, 0.0000,
0.2264

■ 128.5187,

■ 0.0000, 0.0000,

138.3655, 225.5805

0.0000

160.9804,
173.0270, 274.5083

■ 12.0492, 13.3331,
32.9488

■ 12.0492, 13.3331,
32.9488

■ 10.9137, 11.7837,
32.7099

■ 13.4779, 15.1089,
33.2166

■ 10.0374, 10.4411,
32.4969

■ 15.2250, 17.1253,
33.5137

■ 9.5981, 9.7298,
32.3828

■ 17.3148, 19.3963,
33.8419

■ 19.7682, 21.9344,
34.2025

■ 22.6047, 24.7509,
34.5966

■ 25.8421, 27.8565,
35.0254

■ 29.4970, 31.2611,
35.4899

■ 33.5852, 34.9742,
35.9912

■ 38.1216, 39.0047,
36.5300

Harmonies

Analogous

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



9.9560, 13.3331, 28.4381



12.0492, 13.3331, 32.9488



14.6029, 13.3331, 31.3766

Triad

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



12.0492, 13.3331, 32.9488



17.6695, 13.3331, 9.8604



9.2233, 13.3331, 7.6244

Complementary

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



12.0492, 13.3331, 32.9488



17.3912, 14.1026, 3.8137

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.



10.9206, 13.3331, 5.1321



12.0492, 13.3331, 32.9488



15.8435, 13.3331, 6.0945

Square

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



12.0492, 13.3331, 32.9488



18.0758, 13.3331, 16.4100



13.3174, 13.3331, 4.6833



8.4704, 13.3331, 12.7763

Rectangle

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



12.0492, 13.3331, 32.9488



16.2111, 13.3331, 27.2715



13.3174, 13.3331, 4.6833



9.6907, 13.3331, 6.5281

Sweetspot

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



12.0497, 13.3335, 32.9491



41.4492, 45.2662, 62.0889



14.3551, 24.5975, 13.2068



9.0727, 9.9448, 14.0117



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.



12.0497, 13.3335, 32.9491



18.4694, 19.4893, 58.3247



7.9151, 5.0643, 31.5709



6.1683, 6.5940, 7.8766



7.7474, 7.8914, 26.0226



0.1517, 0.1897, 0.4010

Inverse Universe

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



16.9307, 9.5484, 14.8610



28.3040, 14.5821, 21.2691



24.0902, 27.5006, 6.0467



6.3521, 6.2800, 7.2342



12.3693, 6.2019, 8.4696



0.2030, 0.1000, 0.2219

Previews

White Background



This preview shows how the XYZ color 12.0492, 13.3331, 32.9488 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 12.0492, 13.3331, 32.9488 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

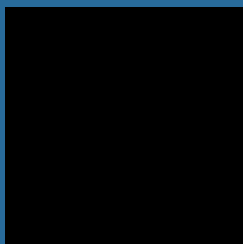
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

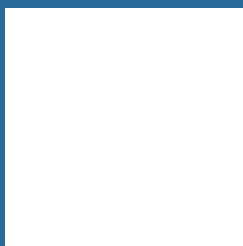
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.0492, 13.3331, 32.9488

Background



This preview shows how black text looks on a background with the XYZ color 12.0492, 13.3331, 32.9488.



This preview shows how white text looks on a background with the XYZ color 12.0492, 13.3331,

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

12.0492, 13.3331, 32.9488

Protanopia

13.7283, 13.2156, 30.2611

Deuteranopia

13.5762, 13.3589, 33.3155



Tritanopia

9.4180, 13.2154, 20.4668

Trichromacy



Original Color

12.0492, 13.3331, 32.9488

Protanomaly

12.8904, 13.2001, 31.1466

Deuteranomaly

12.9377, 13.3251, 33.3426

Tritanomaly

10.1845, 13.1917, 24.5637

Monochromacy



Original Color

12.0492, 13.3331, 32.9488

Achromatopsia

10.1725, 10.7023, 11.6548

Achromatomaly

10.1169, 11.2037, 17.8490

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0492, 13.3331, 32.9488 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(40, 107, 155)` looks like.

```
.text, #text, p{  
    color:rgb(40, 107, 155)  
}
```

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(40, 107, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 107, 155) }
```

Border

The CSS property to change the border of an element to XYZ 12.0492, 13.3331, 32.9488 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(40, 107, 155) }
```


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

```
.border{ border-color:rgb(40, 107, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(40, 107, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 107, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 107, 155);  
box-shadow:4px 4px 4px 4px rgb(40, 107,  
155) }
```

Background

The CSS property to change the background color of an element to XYZ 12.0492, 13.3331, 32.9488 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 107, 155) }
```

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

```
.background{ background-color: rgb(40, 107,  
155) }
```

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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