

Converting Colors

XYZ(13.3631, 16.2933, 30.4580)

Have a look what the booklet for
XYZ(13.3631, 16.2933, 30.4580)
contains.

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Color

**XYZ(13.3284, 16.2240,
30.4460)**

Conversions

Conversions Part 1

Format	Color
Hex	317894
RGB	49, 120, 148
RGB Percent	19%, 47%, 58%
CMY	0.8078, 0.5294, 0.4196
CMYK	0.67, 0.19, 0.00, 0.42
HSL	197°, 50%, 39%
HSV	197°, 67%, 58%
XYZ	13.3284, 16.2240, 30.4460
YIQ	101.9630, -51.3040, -6.3440

Conversions

Conversions Part 2

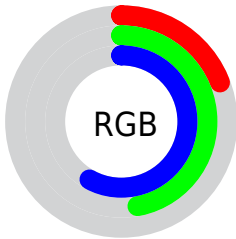
Format	Color
R_{YB}	49, 90, 148
Decimal	3242132
CIE _{Lab}	47.27, -12.94, -21.70
CIE _{LCh}	47, 25.265, 239.202
Yxy	16.2240, 0.2221, 0.2704
Android (android.graphics.Color)	4281432212 (0xFF317894)
YUV	101.9630, 22.6962, -46.4486
Hunter-Lab	40.2790, -11.4223, -16.6206

Details

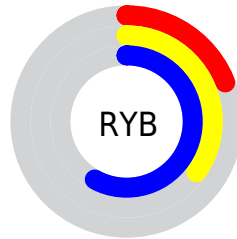
The XYZ color **13.3284, 16.2240, 30.4460** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **15.4216, 11.8263, 4.3763**, and the grayscale version is **12.5725, 13.2273, 14.4045**.

A 20% lighter version of the original color is **31.3571, 36.8335, 61.3340**, and **4.4109, 5.3695, 12.1132** is the 20% darker color. If you saturate the color by 10%, you get **12.2360, 14.9300, 30.2541**, and if you desaturate by 10%, it is **14.6783, 17.6840, 30.6570**.

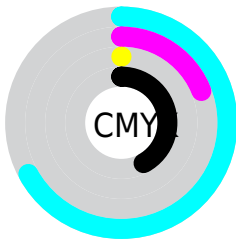
Distribution



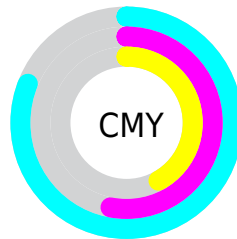
- Red (19%)
- Green (47%)
- Blue (58%)



- Red (19%)
- Yellow (35%)
- Blue (58%)



- Cyan (67%)
- Magenta (19%)
- Yellow (0%)
- Black (42%)



- Cyan (81%)
- Magenta (53%)
- Yellow (42%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.3284, 16.2240, 30.4460 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 13.3284, 16.2240, 30.4460 by changing the saturation by 10% instead.

■ 13.3284, 16.2240,
30.4460

■ 13.3284, 16.2240,
30.4460

■ 206.6071,
230.6599, 318.2496

■ 7.7336, 9.6828,
19.9224

■ 31.4888, 36.9866,
61.4361

■ 3.9753, 5.1892,
12.1552

■ 44.7852, 51.9769,
82.7397

■ 1.6882, 2.3587,
6.7256

■ 61.3795, 70.5522,
108.4738

■ 0.4489, 0.8045,
3.2153

■ 81.6371, 93.0971,
139.0569

■ 0.0000, 0.0000,
1.2056

■ 105.9232,
119.9960, 174.9074

■ 0.0000, 0.0000,
0.0000

■ 134.6034,

151.6331, 216.4441

168.0429,
188.3929, 264.0853

■ 13.3284, 16.2240,
30.4460

■ 13.3284, 16.2240,
30.4460

■ 12.2360, 14.9300,
30.2541

■ 14.6783, 17.6840,
30.6570

■ 11.3753, 13.7875,
30.0790

■ 16.3052, 19.3196,
30.8869

■ 10.7071, 12.7760,
29.9189

■ 18.2282, 21.1413,
31.1372

■ 10.5139, 12.4752,
29.8711

■ 20.4644, 23.1583,
31.4087

■ 23.0295, 25.3792,
31.7021

■ 25.9380, 27.8117,
32.0184

■ 29.2037, 30.4633,
32.3581

■ 32.8393, 33.3411,
32.7219

■ 36.8573, 36.4516,
33.1105

Harmonies

Analogous

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



11.9736, 16.2240, 24.3563



13.3284, 16.2240, 30.4460



15.3608, 16.2240, 33.0009

Triad

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



13.3284, 16.2240, 30.4460



20.1153, 16.2240, 17.8366



13.4224, 16.2240, 8.9708

Complementary

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



13.3284, 16.2240, 30.4460



15.4216, 11.8263, 4.3763

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.



15.4802, 16.2240, 8.0146



13.3284, 16.2240, 30.4460



19.4724, 16.2240, 12.3276

Square

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



13.3284, 16.2240, 30.4460



19.4028, 16.2240, 24.7248



17.7206, 16.2240, 9.0799



12.0240, 16.2240, 12.0962

Rectangle

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



13.3284, 16.2240, 30.4460



16.8735, 16.2240, 31.9775



17.7206, 16.2240, 9.0799



14.0532, 16.2240, 8.4239

Sweetspot

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



13.3289, 16.2246, 30.4464



38.9769, 43.3619, 55.7500



13.1409, 22.3467, 10.3503



8.6331, 9.6698, 12.6963



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.



13.3289, 16.2246, 30.4464



20.8262, 25.3618, 53.2322



8.9365, 7.4396, 28.9822



5.8269, 6.2878, 7.3763



9.0043, 10.7033, 25.5224



0.1353, 0.1812, 0.3207

Inverse Universe

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



16.7017, 9.8492, 18.7906



27.5933, 14.6484, 29.3802



20.0886, 21.1602, 5.9320



5.9661, 5.8815, 6.9275



12.6720, 6.2739, 12.2858



0.1678, 0.0819, 0.2170

Previews

White Background



This preview shows how the XYZ color 13.3284, 16.2240, 30.4460 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 13.3284, 16.2240, 30.4460 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

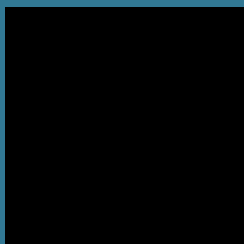
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 13.3284, 16.2240, 30.4460

Background



This preview shows how black text looks on a background with the XYZ color 13.3284, 16.2240, 30.4460.



This preview shows how white text looks on a background with the XYZ color 13.3284, 16.2240,

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

13.3284, 16.2240, 30.4460

Protanopia

16.0926, 16.0180, 27.4429

Deuteranopia

16.4478, 16.1206, 31.0989



Tritanopia

12.1917, 16.3105, 24.6960

Trichromacy



Original Color

13.3284, 16.2240, 30.4460

Protanomaly

14.7075, 15.9331, 28.6858

Deuteranomaly

14.9218, 15.9984, 30.7353

Tritanomaly

12.5432, 16.2676, 26.5236

Monochromacy



Original Color

13.3284, 16.2240, 30.4460

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

12.3657, 14.1082, 19.5242

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.3284, 16.2240, 30.4460 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(49, 120, 148)` looks like.

```
.text, #text, p{  
    color:rgb(49, 120, 148)  
}
```

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(49, 120, 148) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 120, 148) }
```

Border

The CSS property to change the border of an element to XYZ 13.3284, 16.2240, 30.4460 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(49, 120, 148) }
```


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

```
.border{ border-color:rgb(49, 120, 148) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 120, 148)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 120, 148); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 120, 148);  
box-shadow:4px 4px 4px 4px rgb(49, 120,  
148) }
```

Background

The CSS property to change the background color of an element to XYZ 13.3284, 16.2240, 30.4460 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 120, 148) }
```

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

```
.background{ background-color: rgb(49, 120,  
148) }
```

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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