

Converting Colors

XYZ(16.0077, 20.7830, 33.8278)

Have a look what the booklet for
XYZ(16.0077, 20.7830, 33.8278)
contains.

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Color

**XYZ(16.0450, 20.8774,
33.7559)**

Conversions

Conversions Part 1

Format	Color
Hex	31899A
RGB	49, 137, 154
RGB Percent	19%, 54%, 60%
CMY	0.8078, 0.4627, 0.3961
CMYK	0.68, 0.11, 0.00, 0.40
HSL	190°, 52%, 40%
HSV	190°, 68%, 60%
XYZ	16.0450, 20.8774, 33.7559
YIQ	112.6260, -57.9050, -13.3690

Conversions

Conversions Part 2

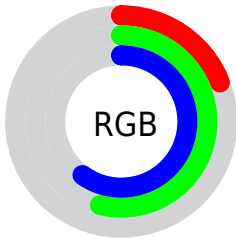
Format	Color
RYB	49, 97, 154
Decimal	3246490
CIELab	52.82, -20.28, -16.71
CIELCh	53, 26.281, 219.493
Yxy	20.8774, 0.2270, 0.2954
Android (android.graphics.Color)	4281436570 (0xFF31899A)
YUV	112.6260, 20.3974, -55.8000
Hunter-Lab	45.6918, -17.2791, -11.8176




Details

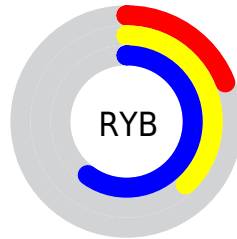
The XYZ color **16.0450, 20.8774, 33.7559** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **15.8295, 10.9888, 4.1931**, and the grayscale version is **15.5400, 16.3493, 17.8044**.




A 20% lighter version of the original color is **36.3226, 45.0669, 66.4589**, and **5.8564, 7.7957, 14.0280** is the 20% darker color. If you saturate the color by 10%, you get **15.0752, 19.8578, 33.6106**, and if you desaturate by 10%, it is **17.2782, 22.0458, 33.9168**.

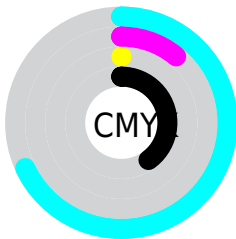
Distribution







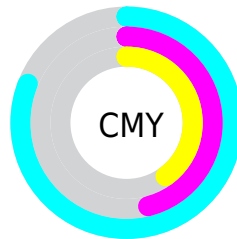
-  Red (19%)
-  Green (54%)
-  Blue (60%)






-  Red (19%)
-  Yellow (38%)
-  Blue (60%)



-  Cyan (68%)
-  Magenta (11%)
-  Yellow (0%)
-  Black (40%)



-  Cyan (81%)
-  Magenta (46%)
-  Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.0450, 20.8774, 33.7559 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 16.0450, 20.8774, 33.7559 by changing the saturation by 10% instead.

■ 16.0450, 20.8774,
33.7559

■ 16.0450, 20.8774,
33.7559

■ 222.8723,
256.6262, 333.7781

■ 9.6471, 13.0344,
22.4303

■ 36.2331, 44.8834,
66.6834

■ 5.2260, 7.4522,
13.9721

■ 50.7540, 61.8152,
89.1225

■ 2.4166, 3.7465,
7.9627

■ 68.7133, 82.5454,
116.1030

■ 0.8534, 1.5328,
3.9837

■ 90.4762, 107.4584,
148.0437

■ 0.0000, 0.3116,
1.6164

■ 116.4082,
136.9386, 185.3630

■ 0.0000, 0.0000,
0.3025

146.8747,

■ 0.0000, 0.0000,

171.3704, 228.4795

0.0000

182.2409,
211.1381, 277.8117

■ 16.0450, 20.8774,
33.7559

■ 16.0450, 20.8774,
33.7559

■ 15.0752, 19.8578,
33.6106

■ 17.2782, 22.0458,
33.9168

■ 14.3395, 18.9705,
33.4781

■ 18.7960, 23.3728,
34.0930

■ 13.7872, 18.1897,
33.3565

■ 20.6199, 24.8699,
34.2858

■ 13.6921, 18.0516,
33.3349

■ 22.7687, 26.5469,
34.4962

■ 25.2596, 28.4126,
34.7251

■ 28.1085, 30.4756,
34.9731

■ 31.3305, 32.7434,
35.2410

■ 34.9396, 35.2236,
35.5295

■ 38.9492, 37.9230,
35.8392

Harmonies

Analogous

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



15.0825, 20.8774, 25.3155



16.0450, 20.8774, 33.7559



18.0524, 20.8774, 40.0187

Triad

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



16.0450, 20.8774, 33.7559



25.2049, 20.8774, 28.4450



18.9861, 20.8774, 10.8511

Complementary

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



16.0450, 20.8774, 33.7559



15.8295, 10.9888, 4.1931

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.



21.7490, 20.8774, 11.3158



16.0450, 20.8774, 33.7559



25.5134, 20.8774, 20.3304

Square

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



16.0450, 20.8774, 33.7559



23.3904, 20.8774, 36.4951



24.1983, 20.8774, 14.4147



16.6743, 20.8774, 12.9540

Rectangle

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



16.0450, 20.8774, 33.7559



19.7967, 20.8774, 41.4298



24.1983, 20.8774, 14.4147



19.8900, 20.8774, 10.7255

Sweetspot

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



16.0457, 20.8782, 33.7564



44.8246, 50.8295, 62.9849



13.7697, 24.1434, 8.8983



9.8721, 11.3010, 14.2314



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.



16.0457, 20.8782, 33.7564



26.6052, 35.1637, 60.9213



10.4079, 9.6026, 31.8771



6.2994, 6.8562, 7.9203



11.1769, 14.7505, 27.1657



0.1871, 0.2606, 0.4128

Inverse Universe

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



18.9406, 10.8734, 24.7682



32.5564, 16.8412, 41.9410



20.2718, 19.8734, 5.6739



6.4183, 6.3065, 7.5826



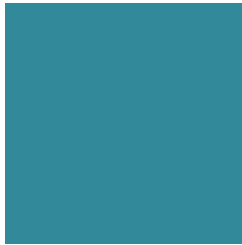
14.1003, 6.8944, 17.5853



0.2209, 0.1071, 0.3162

Previews

White Background



This preview shows how the XYZ color 16.0450, 20.8774, 33.7559 looks on a white background.

Color Contrast Check

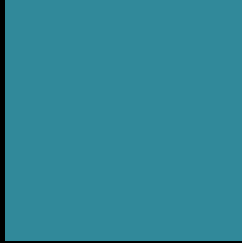
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 16.0450, 20.8774, 33.7559 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

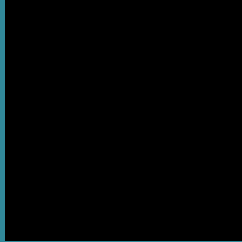
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 16.0450, 20.8774, 33.7559

Background



This preview shows how black text looks on a background with the XYZ color 16.0450, 20.8774, 33.7559.

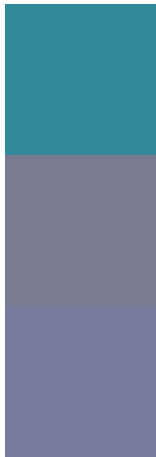


This preview shows how white text looks on a background with the XYZ color 16.0450, 20.8774,

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

16.0450, 20.8774, 33.7559

Protanopia

20.2036, 20.5246, 29.6849

Deuteranopia

21.0539, 20.6652, 34.7774



Tritanopia

15.6400, 20.9277, 31.6489

Trichromacy



Original Color

16.0450, 20.8774, 33.7559

Protanomaly

17.9149, 20.2715, 30.9856

Deuteranomaly

18.4392, 20.2715, 34.3934

Tritanomaly

15.8467, 21.0157, 32.4994

Monochromacy



Original Color

16.0450, 20.8774, 33.7559

Achromatopsia

15.6958, 16.5132, 17.9829

Achromatomaly

15.0723, 17.6512, 23.0347

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.0450, 20.8774, 33.7559 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, 137, 154)` looks like.

```
.text, #text, p{  
    color:rgb(49, 137, 154)  
}
```

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, 137, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 137, 154) }
```

Border

The CSS property to change the border of an element to XYZ 16.0450, 20.8774, 33.7559 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, 137, 154) }
```


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

```
.border{ border-color:rgb(49, 137, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 137, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 137, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 137, 154);  
box-shadow:4px 4px 4px 4px rgb(49, 137,  
154) }
```

Background

The CSS property to change the background color of an element to XYZ 16.0450, 20.8774, 33.7559 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 137, 154) }
```

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

```
.background{ background-color: rgb(49, 137,  
154) }
```

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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