

Converting Colors

XYZ(22.2886, 16.7758, 1.0918)

Have a look what the booklet for
XYZ(22.2886, 16.7758, 1.0918)
contains.

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Color

**XYZ(22.3948, 16.8481,
2.0717)**

Conversions

Conversions Part 1

Format	Color
Hex	B45900
RGB	180, 89, 0
RGB Percent	71%, 35%, 0%
CMY	0.2941, 0.6510, 1.0000
CMYK	0.00, 0.51, 1.00, 0.29
HSL	30°, 100%, 35%
HSV	30°, 100%, 71%
XYZ	22.3948, 16.8481, 2.0717
YIQ	106.0630, 82.8050, -8.3870

Conversions

Conversions Part 2

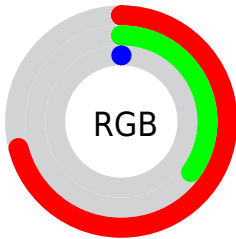
Format	Color
R_{YB}	180, 176, 0
Decimal	11819264
CIE Lab	48.07, 32.67, 57.07
CIE LCh	48, 65.756, 60.214
Yxy	16.8481, 0.5421, 0.4078
Android (android.graphics.Color)	4290009344 (0xFFB45900)
YUV	106.0630, -52.2891, 64.8427
Hunter-Lab	41.0464, 25.5577, 25.7400

Details

The XYZ color **22.3948, 16.8481, 2.0717** is a dark color, and the websafe version is hex **CC6600**. A complement of this color would be **11.9792, 10.7772, 44.6285**, and the grayscale version is **13.8407, 14.5614, 15.8574**.

A 20% lighter version of the original color is **46.8383, 37.9703, 9.2752**, and **8.5045, 5.5107, 0.6154** is the 20% darker color. If you saturate the color by 10%, you get **22.3949, 16.8486, 2.0718**, and if you desaturate by 10%, it is **23.3091, 18.5021, 2.9152**.

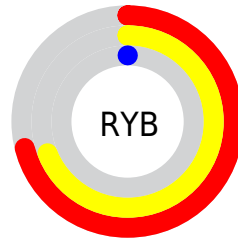
Distribution



Red (71%)

Green (35%)

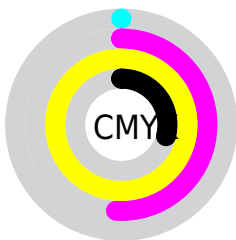
Blue (0%)



Red (71%)

Yellow (69%)

Blue (0%)

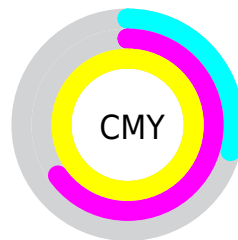


Cyan (0%)

Magenta (51%)

Yellow (100%)

Black (29%)



Cyan (29%)

Magenta (65%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 22.3948, 16.8481, 2.0717 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 22.3948, 16.8481, 2.0717 by changing the saturation by 10% instead.

■ 22.3948, 16.8481,
2.0717

■ 22.3948, 16.8481,
2.0717

257.1949,
234.2955, 123.4804

■ 14.2655, 10.1262,
0.5988

■ 46.8717, 38.0644,
9.2359

■ 8.3885, 5.4827,
0.0000

■ 63.9499, 53.3277,
15.8086

■ 4.3984, 2.5332,
0.0000

■ 84.7419, 72.2069,
24.9330

■ 1.9299, 0.8932,
0.0000

■ 109.6130, 95.0864,
37.0277

■ 0.5941, 0.0000,
0.0000

■ 138.9285,
122.3506, 52.5113

■ 0.0000, 0.0000,
0.0000

■ 173.0537,

154.3839, 71.8022

212.3541,
191.5708, 95.3191

22.3948, 16.8481,
2.0717

22.3948, 16.8481,
2.0717

22.3949, 16.8486,
2.0718

23.3091, 18.5021,
2.9152

24.4199, 20.3889,
4.3179

25.7688, 22.5308,
6.4814

27.3770, 24.9410,
9.5030

29.2629, 27.6314,
13.4651

■ 31.4426, 30.6127,
18.4404

■ 33.9312, 33.8952,
24.4944

■ 36.7423, 37.4883,
31.6870

■ 39.8888, 41.4010,
40.0735

Harmonies

Analogous

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



28.0723, 16.8481, 6.3040



22.3948, 16.8481, 2.0717



15.9709, 16.8481, 1.2161

Triad

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



22.3948, 16.8481, 2.0717



7.0821, 16.8481, 18.4674



22.4875, 16.8481, 63.7155

Complementary

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



22.3948, 16.8481, 2.0717



11.9792, 10.7772, 44.6285

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.



16.0564, 16.8481, 74.4768



22.3948, 16.8481, 2.0717



8.0230, 16.8481, 40.2629

Square

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



22.3948, 16.8481, 2.0717



7.9960, 16.8481, 6.4085



10.9767, 16.8481, 63.9967



28.1345, 16.8481, 39.9060

Rectangle

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



22.3948, 16.8481, 2.0717



12.3773, 16.8481, 1.5774



10.9767, 16.8481, 63.9967



20.3003, 16.8481, 69.4593

Sweetspot

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



22.3952, 16.8490, 2.0720



61.2779, 61.1387, 43.7975



20.7982, 10.4937, 11.2858



12.8275, 12.6687, 8.4388



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



22.3952, 16.8490, 2.0720



40.3746, 30.0853, 3.6791



34.5443, 41.1473, 6.1217



8.8318, 9.1761, 8.9582



15.6975, 11.8935, 1.4683



0.5523, 0.4910, 0.0657

Inverse Universe

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



11.9792, 10.7772, 44.6285



21.4868, 19.0733, 80.8437



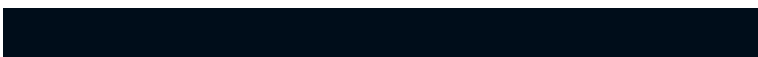
8.2708, 3.3605, 43.3924



8.3851, 8.9165, 10.7854



8.4280, 7.6563, 31.1706



0.3234, 0.3574, 1.0002

Previews

White Background



This preview shows how the XYZ color 22.3948, 16.8481, 2.0717 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 22.3948, 16.8481, 2.0717 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 22.3948, 16.8481, 2.0717

Background



This preview shows how black text looks on a background with the XYZ color 22.3948, 16.8481, 2.0717.



This preview shows how white text looks on a background with the XYZ color 22.3948, 16.8481,

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

22.3948, 16.8481, 2.0717

Protanopia

15.2775, 16.9660, 2.9598

Deuteranopia

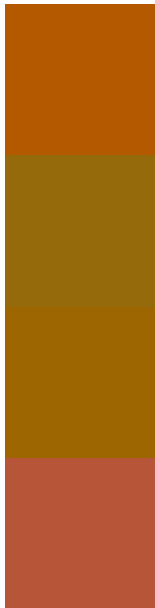
17.1457, 16.9570, 2.3694



Tritanopia

24.3831, 16.9584, 11.2207

Trichromacy



Original Color

22.3948, 16.8481, 2.0717

Protanomaly

17.4216, 16.6259, 2.5781

Deuteranomaly

18.8519, 16.7718, 2.2437

Tritanomaly

23.2537, 16.7276, 5.7445

Monochromacy



Original Color

22.3948, 16.8481, 2.0717

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

15.2432, 14.5061, 7.3068

CSS Examples

Text

The CSS property to change the color of the text to XYZ 22.3948, 16.8481, 2.0717 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(180, 89, 0)` looks like.

```
.text, #text, p{  
    color:rgb(180, 89, 0)  
}
```

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(180, 89, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 89, 0) }
```

Border

The CSS property to change the border of an element to XYZ 22.3948, 16.8481, 2.0717 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(180, 89, 0) }
```


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

```
.border{ border-color:rgb(180, 89, 0) }
```

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

Here you see how a box with a 4 pixel rgb(180, 89, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 89, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 89, 0);  
box-shadow:4px 4px 4px 4px rgb(180, 89, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 22.3948, 16.8481, 2.0717 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 89, 0) }
```

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

```
.background{ background-color: rgb(180, 89,  
0) }
```

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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