

# Converting Colors

XYZ(22.4694, 14.4569, 1.2286)

Have a look what the booklet for  
XYZ(22.4694, 14.4569, 1.2286)  
contains.

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# Color

**XYZ(22.4417, 14.4612,  
1.6085)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BB4200
RGB	187, 66, 0
RGB Percent	73%, 26%, 0%
CMY	0.2667, 0.7411, 1.0000
CMYK	0.00, 0.65, 1.00, 0.27
HSL	21°, 100%, 37%
HSV	21°, 100%, 73%
XYZ	22.4417, 14.4612, 1.6085
YIQ	94.6550, 93.3020, 5.1260

# Conversions

## Conversions Part 2

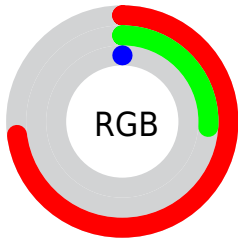
Format	Color
<b>RYB</b>	187, 102, 0
Decimal	12272128
CIELab	44.89, 46.59, 55.90
CIELCh	45, 72.774, 50.192
Yxy	14.4612, 0.5827, 0.3755
Android (android.graphics.Color)	4290462208 (0xFFBB4200)
YUV	94.6550, -46.6649, 80.9866
Hunter-Lab	38.0279, 38.7908, 24.1117

# Details

The XYZ color **22.4417, 14.4612, 1.6085** is a dark color, and the websafe version is hex **CC3300**. A complement of this color would be **15.8063, 17.2613, 49.5119**, and the grayscale version is **10.8878, 11.4548, 12.4743**.

A 20% lighter version of the original color is **47.1190, 33.9983, 7.9498**, and **8.4792, 4.4034, 0.4030** is the 20% darker color. If you saturate the color by 10%, you get **22.4419, 14.4618, 1.6086**, and if you desaturate by 10%, it is **23.3404, 16.0747, 2.4755**.

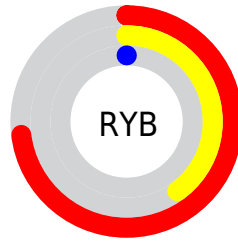
# Distribution



Red (73%)

Green (26%)

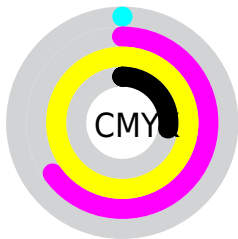
Blue (0%)



Red (73%)

Yellow (40%)

Blue (0%)

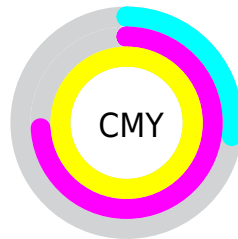


Cyan (0%)

Magenta (65%)

Yellow (100%)

Black (27%)



Cyan (27%)

Magenta (74%)

Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 22.4417, 14.4612, 1.6085 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 22.4417, 14.4612, 1.6085 by changing the saturation by 10% instead.





 22.4417, 14.4612,  
1.6085


 22.4417, 14.4612,  
1.6085


 257.4336,  
220.0814, 115.9665


 14.3002, 8.4421,  
0.2969


 46.9484, 33.9051,  
7.9399


 8.4129, 4.3791,  
0.0000


 64.0443, 48.0988,  
13.9388

 4.4143, 1.8878,  
0.0000

 84.8558, 65.7861,  
22.3847

 1.9391, 0.5410,  
0.0000

 109.7481, 87.3515,  
33.6960


 0.5994, 0.0000,  
0.0000


 139.0867,  
113.1793, 48.2913

 0.0000, 0.0000,  
0.0000


 173.2369,


143.6540, 66.5891


 212.5641,  
179.1599, 89.0080


 22.4417, 14.4612,  
1.6085


 22.4417, 14.4612,  
1.6085


 22.4419, 14.4618,  
1.6086

 23.3404, 16.0747,  
2.4755

 24.5072, 18.0480,  
3.9756

 25.9911, 20.4142,  
6.3251

 27.8197, 23.1963,  
9.6324

 30.0170, 26.4150,  
13.9897

■ 32.6046, 30.0898,  
19.4780

■ 35.6024, 34.2386,  
26.1705

■ 39.0286, 38.8783,  
34.1340

■ 42.9003, 44.0250,  
43.4304

# Harmonies

## Analogous

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



27.5114, 14.4612, 6.9318



22.4417, 14.4612, 1.6085



15.7862, 14.4612, 0.3972

# Triad

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



22.4417, 14.4612, 1.6085



5.2762, 14.4612, 10.8003



18.0813, 14.4612, 70.8123

# Complementary

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



22.4417, 14.4612, 1.6085



15.8063, 17.2613, 49.5119

# 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.



11.8877, 14.4612, 75.0741



22.4417, 14.4612, 1.6085



5.5641, 14.4612, 29.9688

# Square

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



22.4417, 14.4612, 1.6085



6.6996, 14.4612, 2.7090



7.6473, 14.4612, 56.6752



24.5323, 14.4612, 47.3917



# Rectangle

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



22.4417, 14.4612, 1.6085



11.8194, 14.4612, 0.4031



7.6473, 14.4612, 56.6752



15.8690, 14.4612, 74.9664

# Sweetspot

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



22.4420, 14.4620, 1.6087



63.4854, 60.9399, 46.2363



23.9784, 11.9588, 19.3112



13.4629, 12.7075, 9.0143



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



22.4420, 14.4620, 1.6087



39.9924, 25.4987, 2.8139



32.8828, 35.3437, 5.0890



9.7983, 10.0725, 10.0044



15.5250, 10.0887, 1.1291



0.6705, 0.5199, 0.0650



# Inverse Universe

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



15.8063, 17.2613, 49.5119



28.0780, 30.4527, 88.5995



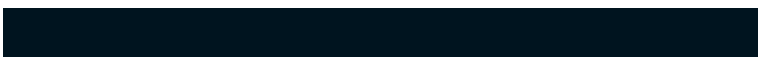
9.3861, 4.4209, 47.3719



9.5175, 10.2273, 12.1446



10.9606, 12.0329, 34.1378



0.4887, 0.5901, 1.3570



# Previews

## White Background



This preview shows how the XYZ color 22.4417, 14.4612, 1.6085 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 22.4417, 14.4612, 1.6085 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 22.4417, 14.4612, 1.6085**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.4417, 14.4612, 1.6085.



This preview shows how white text looks on a background with the XYZ color 22.4417, 14.4612,



# 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

22.4417, 14.4612, 1.6085

### Protanopia

13.2604, 14.6274, 2.7406

### Deuteranopia

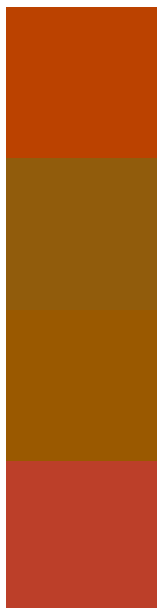
14.7430, 14.6536, 2.0514



## Tritanopia

23.3619, 14.4105, 6.5512

# Trichromacy



## Original Color

22.4417, 14.4612, 1.6085

## Protanomaly

15.5706, 13.7006, 2.1716

## Deuteranomaly

16.8988, 14.0148, 1.8145

## Tritanomaly

22.9168, 14.4065, 3.6707

# Monochromacy



## Original Color

22.4417, 14.4612, 1.6085

## Achromatopsia

10.8771, 11.4435, 12.4620

## Achromatomaly

12.8880, 11.2561, 5.7683

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.4417, 14.4612, 1.6085 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(187, 66, 0)` looks like.

```
.text, #text, p{  
    color:rgb(187, 66, 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(187, 66, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 66, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 22.4417, 14.4612, 1.6085 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(187, 66, 0) }
```



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

```
.border{ border-color:rgb(187, 66, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 66, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 66, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 66, 0);  
box-shadow:4px 4px 4px 4px rgb(187, 66, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 22.4417, 14.4612, 1.6085 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 66, 0) }
```

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

```
.background{ background-color: rgb(187, 66,  
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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