

# Converting Colors

XYZ(22.1412, 13.0698, 0.4885)

Have a look what the booklet for  
XYZ(22.1412, 13.0698, 0.4885)  
contains.

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# Color

**XYZ(22.3335, 13.1438,  
1.3599)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BE3100
RGB	190, 49, 0
RGB Percent	75%, 19%, 0%
CMY	0.2549, 0.8078, 1.0000
CMYK	0.00, 0.74, 1.00, 0.25
HSL	15°, 100%, 37%
HSV	15°, 100%, 75%
XYZ	22.3335, 13.1438, 1.3599
YIQ	85.5730, 99.7650, 14.6530

# Conversions

## Conversions Part 2

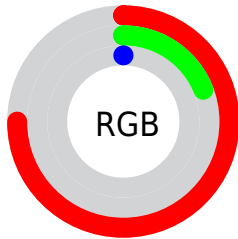
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	190, 66, 0
Decimal	12464384
CIE <sub>Lab</sub>	42.98, 54.32, 55.29
CIE <sub>LCh</sub>	43, 77.504, 45.505
Yxy	13.1438, 0.6063, 0.3568
Android (android.graphics.Color)	4290654464 (0xFFBE3100)
YUV	85.5730, -42.1875, 91.5825
Hunter-Lab	36.2544, 46.5148, 23.1541

# Details

The XYZ color **22.3335, 13.1438, 1.3599** is a dark color, and the websafe version is hex **CC3300**. A complement of this color would be **18.8176, 22.7644, 52.1169**, and the grayscale version is **8.8275, 9.2873, 10.1138**.

A 20% lighter version of the original color is **46.6142, 31.4498, 7.2280**, and **8.7524, 4.5120, 0.4096** is the 20% darker color. If you saturate the color by 10%, you get **22.3337, 13.1445, 1.3600**, and if you desaturate by 10%, it is **23.1362, 14.5613, 2.2074**.

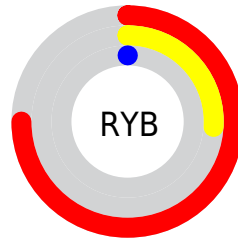
# Distribution



Red (75%)

Green (19%)

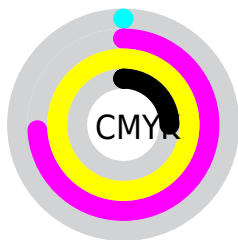
Blue (0%)



Red (75%)

Yellow (26%)

Blue (0%)

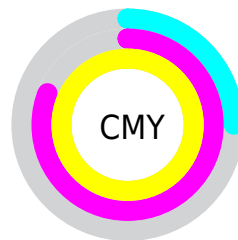


Cyan (0%)

Magenta (74%)

Yellow (100%)

Black (25%)



Cyan (25%)

Magenta (81%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 22.3335, 13.1438, 1.3599 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 22.3335, 13.1438, 1.3599 by changing the saturation by 10% instead.





 22.3335, 13.1438,  
1.3599


 22.3335, 13.1438,  
1.3599

 256.8827,  
211.8372, 111.4763


 14.2201, 7.5276,  
0.1101


 46.7713, 31.5619,  
7.2025


 8.3567, 3.7942,  
0.0000


 63.8265, 45.1326,  
12.8599


 4.3777, 1.5591,  
0.0000

 84.5930, 62.1236,  
20.8993

 1.9180, 0.3298,  
0.0000

 109.4362, 82.9194,  
31.7393

 0.5872, 0.0000,  
0.0000


 138.7214,  
107.9042, 45.7985


 0.0000, 0.0000,  
0.0000


 172.8140,


137.4625, 63.4953


 212.0793,  
171.9787, 85.2484


 22.3335, 13.1438,  
1.3599


 22.3335, 13.1438,  
1.3599


 22.3337, 13.1445,  
1.3600

 23.1362, 14.5613,  
2.2074

 24.2534, 16.4240,  
3.7257

 25.7410, 18.7774,  
6.1388

 27.6327, 21.6551,  
9.5612

 29.9578, 25.0877,  
14.0903

■ 32.7429, 29.1031,  
19.8117

■ 36.0122, 33.7275,  
26.8027

■ 39.7882, 38.9852,  
35.1341

■ 44.0918, 44.8994,  
44.8712

# Harmonies

## Analogous

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



27.0542, 13.1438, 7.2248



22.3335, 13.1438, 1.3599



15.5764, 13.1438, 0.0000

# Triad

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



22.3335, 13.1438, 1.3599



4.3744, 13.1438, 7.5842



15.8030, 13.1438, 74.6718

# Complementary

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



22.3335, 13.1438, 1.3599



18.8176, 22.7644, 52.1169

# 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.



9.8457, 13.1438, 75.1223



22.3335, 13.1438, 1.3599



4.4004, 13.1438, 24.9628

# Square

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



22.3335, 13.1438, 1.3599



5.9864, 13.1438, 1.4467



6.0741, 13.1438, 52.6439



22.5441, 13.1438, 51.6770



# Rectangle

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



22.3335, 13.1438, 1.3599



11.4283, 13.1438, 0.0000



6.0741, 13.1438, 52.6439



13.6214, 13.1438, 77.8444

# Sweetspot

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



22.3338, 13.1446, 1.3601



64.9507, 60.6856, 47.8990



26.1551, 12.9151, 26.9027



13.6870, 12.5151, 9.2775



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



22.3338, 13.1446, 1.3601



40.3036, 23.4825, 2.4083



30.9825, 30.4421, 4.2430



9.7249, 9.9258, 9.9799



14.9056, 8.8501, 0.9226



0.6388, 0.4565, 0.0544



# Inverse Universe

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



18.8176, 22.7644, 52.1169



33.8891, 40.8300, 94.3740



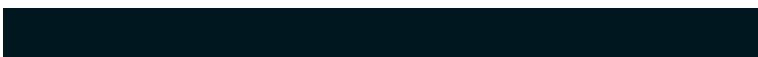
10.3309, 5.7910, 49.2880



9.5946, 10.3816, 12.1704



12.5786, 15.2690, 34.6771



0.5427, 0.6980, 1.3750



# Previews

## White Background



This preview shows how the XYZ color 22.3335, 13.1438, 1.3599 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



## 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 22.3335, 13.1438, 1.3599**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.3335, 13.1438, 1.3599.



This preview shows how white text looks on a background with the XYZ color 22.3335, 13.1438,



# 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

22.3335, 13.1438, 1.3599

### Protanopia

12.0653, 13.4033, 2.7102

### Deuteranopia

13.3280, 13.2165, 1.8486



## Tritanopia

22.9759, 13.2356, 4.0331

# Trichromacy



## Original Color

22.3335, 13.1438, 1.3599

## Protanomaly

14.3279, 11.9690, 1.9706

## Deuteranomaly

15.6312, 12.3166, 1.5535

## Tritanomaly

22.7367, 13.2031, 2.5784

# Monochromacy



## Original Color

22.3335, 13.1438, 1.3599

## Achromatopsia

8.8453, 9.3059, 10.1341

## Achromatomaly

11.3843, 9.3260, 4.8145

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.3335, 13.1438, 1.3599 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(190, 49, 0)` looks like.

```
.text, #text, p{  
    color:rgb(190, 49, 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(190, 49, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(190, 49, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 22.3335, 13.1438, 1.3599 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(190, 49, 0) }
```



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

```
.border{ border-color:rgb(190, 49, 0) }
```

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

Here you see how a box with a 4 pixel rgb(190, 49, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(190, 49, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(190, 49, 0);  
box-shadow:4px 4px 4px 4px rgb(190, 49, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 22.3335, 13.1438, 1.3599 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(190, 49, 0) }
```

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

```
.background{ background-color: rgb(190, 49,  
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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