

# Converting Colors

XYZ(22.7333, 13.4779, 1.4033)

Have a look what the booklet for  
XYZ(22.7333, 13.4779, 1.4033)  
contains.

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# Color

**XYZ(22.6697, 13.4440,  
1.4001)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BF3300
RGB	191, 51, 0
RGB Percent	75%, 20%, 0%
CMY	0.2510, 0.8000, 1.0000
CMYK	0.00, 0.73, 1.00, 0.25
HSL	16°, 100%, 37%
HSV	16°, 100%, 75%
XYZ	22.6697, 13.4440, 1.4001
YIQ	87.0460, 99.8110, 13.8190

# Conversions

## Conversions Part 2

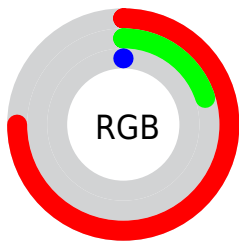
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	191, 70, 0
Decimal	12530432
CIE Lab	43.42, 53.94, 55.60
CIE LCh	43, 77.464, 45.870
Yxy	13.4440, 0.6043, 0.3584
Android (android.graphics.Color)	4290720512 (0xFFBF3300)
YUV	87.0460, -42.9137, 91.1677
Hunter-Lab	36.6661, 46.1964, 23.4022

# Details

The XYZ color **22.6697, 13.4440, 1.4001** is a dark color, and the websafe version is hex **CC3300**. A complement of this color would be **18.7806, 22.5150, 52.6459**, and the grayscale version is **9.1444, 9.6206, 10.4768**.

A 20% lighter version of the original color is **47.1873, 32.0512, 7.3139**, and **8.9021, 4.5892, 0.4166** is the 20% darker color. If you saturate the color by 10%, you get **22.6699, 13.4447, 1.4003**, and if you desaturate by 10%, it is **23.4949, 14.9053, 2.2593**.

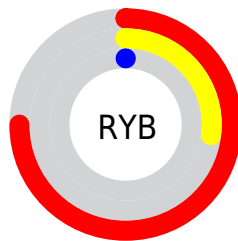
# Distribution



Red (75%)

Green (20%)

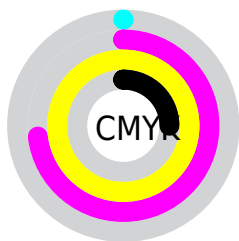
Blue (0%)



Red (75%)

Yellow (27%)

Blue (0%)

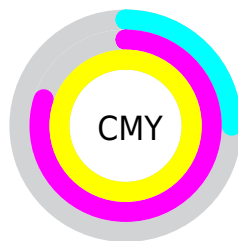


Cyan (0%)

Magenta (73%)

Yellow (100%)

Black (25%)



Cyan (25%)

Magenta (80%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 22.6697, 13.4440, 1.4001 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 22.6697, 13.4440, 1.4001 by changing the saturation by 10% instead.





 22.6697, 13.4440,  
1.4001


 22.6697, 13.4440,  
1.4001


 258.5911,  
213.7439, 112.2292


 14.4692, 7.7350,  
0.1418


 47.3211, 32.0992,  
7.3242


 8.5316, 3.9258,  
0.0000


 64.5026, 45.8141,  
13.0387

 4.4916, 1.6322,  
0.0000

 85.4085, 62.9665,  
21.1463

 1.9838, 0.3791,  
0.0000

 110.4041, 83.9408,  
32.0655

 0.6248, 0.0000,  
0.0000


 139.8549,  
109.1212, 46.2149


 0.0000, 0.0000,  
0.0000


 174.1260,


138.8923, 64.0129


 213.5830,  
173.6384, 85.8782


 22.6697, 13.4440,  
1.4001


 22.6697, 13.4440,  
1.4001


 22.6699, 13.4447,  
1.4003

 23.4949, 14.9053,  
2.2593

 24.6354, 16.8107,  
3.7971

 26.1467, 19.2046,  
6.2392

 28.0625, 22.1203,  
9.7014

 30.4121, 25.5876,  
14.2822

■ 33.2218, 29.6340,  
20.0684

■ 36.5159, 34.2851,  
27.1380

■ 40.3166, 39.5648,  
35.5626

■ 44.6449, 45.4958,  
45.4082

# Harmonies

## Analogous

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



27.4882, 13.4440, 7.3067



22.6697, 13.4440, 1.4001



15.8225, 13.4440, 0.0000

# Triad

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



22.6697, 13.4440, 1.4001



4.5104, 13.4440, 7.9366



16.2178, 13.4440, 75.4323

# Complementary

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



22.6697, 13.4440, 1.4001



18.7806, 22.5150, 52.6459

# 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.



10.1517, 13.4440, 76.2133



22.6697, 13.4440, 1.4001



4.5560, 13.4440, 25.7240

# Square

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



22.6697, 13.4440, 1.4001



6.1325, 13.4440, 1.5545



6.2863, 13.4440, 53.7419



23.0364, 13.4440, 52.0635



# Rectangle

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



22.6697, 13.4440, 1.4001



11.6288, 13.4440, 0.0000



6.2863, 13.4440, 53.7419



14.0008, 13.4440, 78.7355

# Sweetspot

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



22.6700, 13.4448, 1.4003



65.0999, 60.9840, 47.9487



26.2243, 12.9717, 25.9583



13.7224, 12.5859, 9.2893



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.



22.6700, 13.4448, 1.4003



40.4330, 23.7411, 2.4514



31.8315, 31.7679, 4.4541



9.7319, 9.9398, 9.9823



14.9561, 8.9510, 0.9394



0.6418, 0.4625, 0.0555



# Inverse Universe

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



18.7806, 22.5150, 52.6459



33.4258, 39.9035, 94.2196



10.3259, 5.6055, 49.8276



9.5872, 10.3667, 12.1679



12.4114, 14.9345, 34.6214



0.5372, 0.6871, 1.3732



# Previews

## White Background



This preview shows how the XYZ color 22.6697, 13.4440, 1.4001 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 22.6697, 13.4440, 1.4001**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.6697, 13.4440, 1.4001.



This preview shows how white text looks on a background with the XYZ color 22.6697, 13.4440,



# 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

22.6697, 13.4440, 1.4001

### Protanopia

12.4313, 13.7405, 2.7560

### Deuteranopia

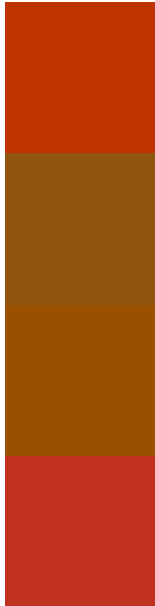
13.7278, 13.5607, 1.8939



## Tritanopia

23.3496, 13.5421, 4.2890

# Trichromacy



## Original Color

22.6697, 13.4440, 1.4001

## Protanomaly

14.8294, 12.4580, 2.0385

## Deuteranomaly

16.0793, 12.6572, 1.5956

## Tritanomaly

23.0839, 13.5020, 2.6858

# Monochromacy



## Original Color

22.6697, 13.4440, 1.4001

## Achromatopsia

9.0590, 9.5307, 10.3790

## Achromatomaly

11.5958, 9.5334, 4.8434

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.6697, 13.4440, 1.4001 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(191, 51, 0)` looks like.

```
.text, #text, p{  
    color:rgb(191, 51, 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(191, 51, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(191, 51, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 22.6697, 13.4440, 1.4001 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(191, 51, 0) }
```



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

```
.border{ border-color:rgb(191, 51, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(191, 51, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(191, 51, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(191, 51, 0);  
box-shadow:4px 4px 4px 4px rgb(191, 51, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 22.6697, 13.4440, 1.4001 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(191, 51, 0) }
```

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

```
.background{ background-color: rgb(191, 51,  
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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