

# Converting Colors

XYZ(21.5439, 13.5783, 2.2292)

Have a look what the booklet for  
XYZ(21.5439, 13.5783, 2.2292)  
contains.

<b>XYZ(21.5807, 13.5858, 2.2439)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(21.5807, 13.5858,  
2.2439)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B83D16
RGB	184, 61, 22
RGB Percent	72%, 24%, 9%
CMY	0.2784, 0.7607, 0.9137
CMYK	0.00, 0.67, 0.88, 0.28
HSL	14°, 79%, 40%
HSV	14°, 88%, 72%
XYZ	21.5807, 13.5858, 2.2439
YIQ	93.3310, 85.8270, 13.9470

# Conversions

## Conversions Part 2

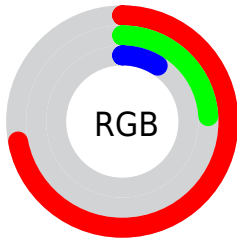
<b>Format</b>	<b>Color</b>
<b>RYB</b>	184, 73, 22
Decimal	12074262
CIELab	43.63, 47.99, 47.98
CIElCh	44, 67.865, 44.993
Yxy	13.5858, 0.5769, 0.3632
Android (android.graphics.Color)	4290264342 (0xFFB83D16)
YUV	93.3310, -35.1662, 79.5167
Hunter-Lab	36.8589, 40.0077, 22.1918

# Details

The XYZ color **21.5807, 13.5858, 2.2439** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **19.1065, 23.8792, 48.9491**, and the grayscale version is **10.5484, 11.0977, 12.0854**.

A 20% lighter version of the original color is **45.4806, 32.2510, 9.6223**, and **8.1684, 4.2110, 0.3823** is the 20% darker color. If you saturate the color by 10%, you get **20.8048, 12.2343, 1.3683**, and if you desaturate by 10%, it is **22.6714, 15.3754, 3.8162**.

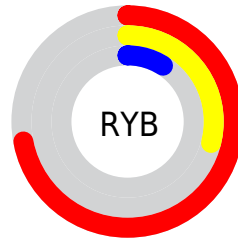
# Distribution



Red (72%)

Green (24%)

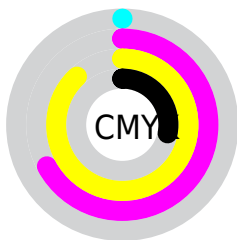
Blue (9%)



Red (72%)

Yellow (29%)

Blue (9%)

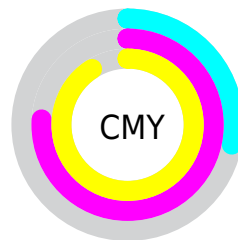


Cyan (0%)

Magenta (67%)

Yellow (88%)

Black (28%)



Cyan (28%)

Magenta (76%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.5807, 13.5858, 2.2439 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 21.5807, 13.5858, 2.2439 by changing the saturation by 10% instead.





 21.5807, 13.5858,  
2.2439


 21.5807, 13.5858,  
2.2439


253.0224,  
214.6386, 126.0560


 13.6640, 7.8332,  
0.6995


 45.5360, 32.3523,  
9.6975


 7.9675, 3.9884,  
0.0000


 62.3054, 46.1349,  
16.4673


 4.1258, 1.6671,  
0.0000

 82.7563, 63.3629,  
25.8238

 1.7735, 0.4022,  
0.0000

 107.2542, 84.4208,  
38.1855

 0.5016, 0.0000,  
0.0000


 136.1644,  
109.6929, 53.9711


 0.0000, 0.0000,  
0.0000


 169.8523,


139.5637, 73.5990


 208.6832,  
174.4174, 97.4878


 21.5807, 13.5858,  
2.2439


 21.5807, 13.5858,  
2.2439


 20.8048, 12.2343,  
1.3683


 22.6714, 15.3754,  
3.8162

 20.6791, 12.0145,  
1.2291

 24.1192, 17.6400,  
6.2442

 25.9556, 20.4128,  
9.6304

 28.2079, 23.7235,  
14.0624

 30.9011, 27.5989,  
19.6181

■ 34.0579, 32.0644,  
26.3676

■ 37.6994, 37.1436,  
34.3755

■ 41.8454, 42.8588,  
43.7016

■ 46.5146, 49.2312,  
54.4020

# Harmonies

## Analogous

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



25.5267, 13.5858, 8.4350



21.5807, 13.5858, 2.2439



15.7465, 13.5858, 0.6767

# Triad

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



21.5807, 13.5858, 2.2439



5.3389, 13.5858, 8.4303



15.7438, 13.5858, 64.9629

# Complementary

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



21.5807, 13.5858, 2.2439



19.1065, 23.8792, 48.9491

# 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.



10.4414, 13.5858, 64.9581



21.5807, 13.5858, 2.2439



5.3386, 13.5858, 23.7384

# Square

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



21.5807, 13.5858, 2.2439



6.9474, 13.5858, 2.2425



6.9462, 13.5858, 46.6717



21.5783, 13.5858, 46.6823



# Rectangle

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



21.5807, 13.5858, 2.2439



12.0430, 13.5858, 0.5329



6.9462, 13.5858, 46.6717



13.8237, 13.5858, 67.3682

# Sweetspot

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



21.5810, 13.5866, 2.2441



62.7412, 59.5307, 49.9765



25.2577, 12.8456, 28.4238



13.0709, 12.1948, 9.7872



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



21.5810, 13.5866, 2.2441



37.3323, 21.4706, 2.1766



29.4071, 29.2388, 4.8528



9.1755, 9.3540, 9.4288



14.2992, 8.3748, 0.8628



0.5536, 0.3942, 0.0469



# Inverse Universe

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



19.1065, 23.8792, 48.9491



32.4078, 39.7218, 88.1636



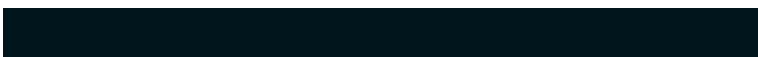
10.8843, 7.4348, 46.2083



9.0785, 9.8342, 11.4991



12.4523, 15.3642, 33.5624



0.4838, 0.6313, 1.1981



# Previews

## White Background



This preview shows how the XYZ color 21.5807, 13.5858, 2.2439 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 21.5807, 13.5858, 2.2439**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.5807, 13.5858, 2.2439.



This preview shows how white text looks on a background with the XYZ color 21.5807, 13.5858,



# 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

21.5807, 13.5858, 2.2439

### Protanopia

12.4273, 13.7234, 3.4327

### Deuteranopia

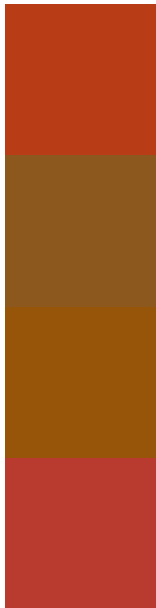
13.8219, 13.7490, 1.9253



## Tritanopia

22.2863, 13.5668, 5.7190

# Trichromacy



## Original Color

21.5807, 13.5858, 2.2439

## Protanomaly

14.6960, 12.7309, 2.8451

## Deuteranomaly

15.8700, 12.9986, 1.9023

## Tritanomaly

22.0138, 13.5377, 4.0375

# Monochromacy



## Original Color

21.5807, 13.5858, 2.2439

## Achromatopsia

10.4043, 10.9462, 11.9204

## Achromatomaly

12.5597, 10.7257, 6.7185

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.5807, 13.5858, 2.2439 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(184, 61, 22)` looks like.

```
.text, #text, p{  
    color:rgb(184, 61, 22)  
}
```

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(184, 61, 22) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(184, 61, 22) }
```

## Border

The CSS property to change the border of an element to XYZ 21.5807, 13.5858, 2.2439 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(184, 61, 22) }
```



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

```
.border{ border-color:rgb(184, 61, 22) }
```

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

Here you see how a box with a 4 pixel rgb(184, 61, 22) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(184, 61, 22); -webkit-box-  
shadow:4px 4px 4px 4px rgb(184, 61, 22);  
box-shadow:4px 4px 4px 4px rgb(184, 61,  
22) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.5807, 13.5858, 2.2439 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(184, 61, 22) }
```

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

```
.background{ background-color: rgb(184, 61,  
22) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor