

# Converting Colors

XYZ(21.4180, 11.4506, 1.8404)

Have a look what the booklet for  
XYZ(21.4180, 11.4506, 1.8404)  
contains.

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# Color

**XYZ(21.4180, 11.4506,  
1.8404)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BD1616
RGB	189, 22, 22
RGB Percent	74%, 9%, 9%
CMY	0.2588, 0.9136, 0.9137
CMYK	0.00, 0.88, 0.88, 0.26
HSL	0°, 79%, 41%
HSV	0°, 88%, 74%
XYZ	21.4180, 11.4506, 1.8404
YIQ	71.9330, 99.5320, 35.4040

# Conversions

## Conversions Part 2

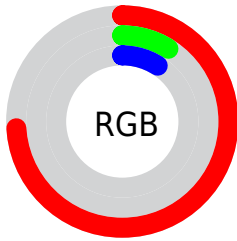
<b>Format</b>	<b>Color</b>
<b>RYB</b>	189, 22, 22
Decimal	12391958
CIELab	40.33, 61.47, 45.79
CIElCh	40, 76.648, 36.687
Yxy	11.4506, 0.6171, 0.3299
Android (android.graphics.Color)	4290582038 (0xFFBD1616)
YUV	71.9330, -24.6170, 102.6678
Hunter-Lab	33.8387, 53.7626, 20.4625

# Details

The XYZ color **21.4180, 11.4506, 1.8404** is a dark color, and the websafe version is hex **CC3333**. A complement of this color would be **27.7089, 40.2303, 54.4485**, and the grayscale version is **6.1790, 6.5008, 7.0793**.

A 20% lighter version of the original color is **45.1238, 28.4448, 8.5809**, and **8.6042, 4.4356, 0.4027** is the 20% darker color. If you saturate the color by 10%, you get **21.0370, 10.8934, 1.0829**, and if you desaturate by 10%, it is **22.1748, 12.5585, 3.3440**.

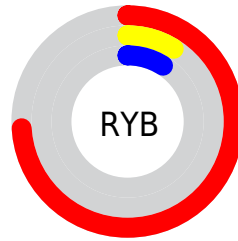
# Distribution



Red (74%)

Green (9%)

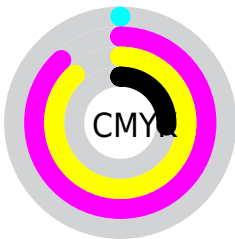
Blue (9%)



Red (74%)

Yellow (9%)

Blue (9%)

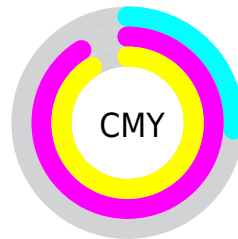


Cyan (0%)

Magenta (88%)

Yellow (88%)

Black (26%)



Cyan (26%)

Magenta (91%)


Yellow (91%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.4180, 11.4506, 1.8404 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 21.4180, 11.4506, 1.8404 by changing the saturation by 10% instead.





 21.4180, 11.4506,  
1.8404


 21.4180, 11.4506,  
1.8404


252.1816,  
200.7334, 119.8471


 13.5441, 6.3708,  
0.4544


 45.2682, 28.4904,  
8.5997

 7.8838, 3.0718,  
0.0000


 61.9753, 41.2193,  
14.8947

 4.0719, 1.1693,  
0.0000

 82.3574, 57.2665,  
23.6912

 1.7429, 0.0365,  
0.0000

 106.7799, 77.0166,  
35.4080


 0.4829, 0.0000,  
0.0000


 135.6082,  
100.8540, 50.4634


 0.0000, 0.0000,  
0.0000


 169.2077,


129.1629, 69.2760


 207.9437,  
162.3279, 92.2644


 21.4180, 11.4506,  
1.8404


 21.4180, 11.4506,  
1.8404


 21.0370, 10.8934,  
1.0829


 22.1748, 12.5585,  
3.3440

 20.9863, 10.8192,  
0.9822

 23.4027, 14.3555,  
5.7848

 25.1619, 16.9298,  
9.2817

 27.5034, 20.3560,  
13.9361

 30.4720, 24.7000,  
19.8376

■ 34.1084, 30.0211,  
27.0667

■ 38.4498, 36.3738,  
35.6975

■ 43.5307, 43.8084,  
45.7984

■ 49.3832, 52.3720,  
57.4334

# Harmonies

## Analogous

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



24.6658, 11.4506, 9.3368



21.4180, 11.4506, 1.8404



15.4935, 11.4506, 0.0000

# Triad

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



21.4180, 11.4506, 1.8404



3.8968, 11.4506, 4.0542



12.1283, 11.4506, 70.7716

# Complementary

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



21.4180, 11.4506, 1.8404



27.7089, 40.2303, 54.4485

# 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.



7.2927, 11.4506, 63.9715



21.4180, 11.4506, 1.8404



3.5206, 11.4506, 16.2304

# Square

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



21.4180, 11.4506, 1.8404



5.8139, 11.4506, 0.5641



4.5338, 11.4506, 39.7258



18.2758, 11.4506, 54.2817



# Rectangle

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



21.4180, 11.4506, 1.8404



11.4901, 11.4506, 0.0000



4.5338, 11.4506, 39.7258



10.2985, 11.4506, 71.2546

# Sweetspot

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



21.4182, 11.4513, 1.8406



61.7558, 54.7443, 49.8029



30.4582, 15.0667, 49.4465



12.7645, 11.0178, 9.6845



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.



21.4182, 11.4513, 1.8406



37.5868, 19.3772, 1.7591



26.2336, 21.0820, 3.4457



9.5303, 9.5366, 9.9151



14.1205, 7.2797, 0.6609



0.5531, 0.2852, 0.0259



# Inverse Universe

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



27.7089, 40.2303, 54.4485



49.0333, 71.7452, 97.4901



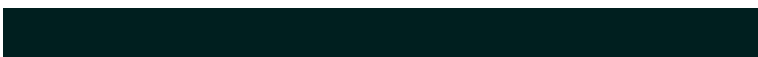
14.6188, 14.0500, 50.0851



9.8085, 10.8094, 12.2417



18.4206, 26.9530, 36.6245



0.7216, 1.0558, 1.4346



# Previews

## White Background



This preview shows how the XYZ color 21.4180, 11.4506, 1.8404 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 21.4180, 11.4506, 1.8404 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 21.4180, 11.4506, 1.8404**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.4180, 11.4506, 1.8404.



This preview shows how white text looks on a background with the XYZ color 21.4180, 11.4506,



# 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

21.4180, 11.4506, 1.8404

### Protanopia

10.8089, 11.8775, 3.5566

### Deuteranopia

11.8532, 11.7919, 1.6513



## Tritanopia

21.4018, 11.4753, 1.6592

# Trichromacy



## Original Color

21.4180, 11.4506, 1.8404

## Protanomaly

12.7674, 9.8030, 2.5857

## Deuteranomaly

13.9050, 10.1428, 1.4546

## Tritanomaly

21.4102, 11.4786, 1.7032

# Monochromacy



## Original Color

21.4180, 11.4506, 1.8404

## Achromatopsia

6.1596, 6.4803, 7.0571

## Achromatomaly

9.0553, 6.5495, 4.2769

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.4180, 11.4506, 1.8404 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(189, 22, 22)` looks like.

```
.text, #text, p{  
    color:rgb(189, 22, 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(189, 22, 22) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 22, 22) }
```

## Border

The CSS property to change the border of an element to XYZ 21.4180, 11.4506, 1.8404 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(189, 22, 22) }
```



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

```
.border{ border-color:rgb(189, 22, 22) }
```

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

Here you see how a box with a 4 pixel rgb(189, 22, 22) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 22, 22); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 22, 22);  
box-shadow:4px 4px 4px 4px rgb(189, 22,  
22) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.4180, 11.4506, 1.8404 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 22, 22) }
```

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

```
.background{ background-color: rgb(189, 22,  
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](#).

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