

# Converting Colors

XYZ(23.6711, 12.5654, 1.8490)

Have a look what the booklet for  
XYZ(23.6711, 12.5654, 1.8490)  
contains.

|  |    |
|--|----|
| <b>XYZ(23.6651, 12.5566, 1.8382)</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(23.6651, 12.5566,  
1.8382)**

# Conversions

## Conversions Part 1

| Format      | Color                      |
|-------------|----------------------------|
| Hex         | C61414                     |
| RGB         | 198, 20, 20                |
| RGB Percent | 78%, 8%, 8%                |
| CMY         | 0.2235, 0.9215, 0.9216     |
| CMYK        | 0.00, 0.90, 0.90, 0.22     |
| HSL         | 0°, 82%, 43%               |
| HSV         | 0°, 90%, 78%               |
| XYZ         | 23.6651, 12.5566, 1.8382   |
| YIQ         | 73.2220, 106.0880, 37.7360 |

# Conversions

## Conversions Part 2

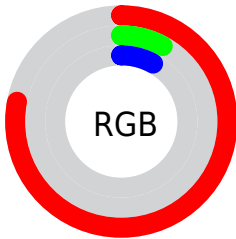
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| <b>RYB</b>                          | 198, 20, 20                    |
| Decimal                             | 12981268                       |
| CIELab                              | 42.09, 64.18, 48.84            |
| CIELCh                              | 42, 80.649, 37.275             |
| Yxy                                 | 12.5566, 0.6218,<br>0.3299     |
| Android<br>(android.graphics.Color) | 4291171348<br>(0xFFC61414)     |
| YUV                                 | 73.2220, -26.2384,<br>109.4303 |
| Hunter-Lab                          | 35.4353, 57.1976,<br>21.7290   |

# Details

The XYZ color **23.6651, 12.5566, 1.8382** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **30.6695, 44.6020, 60.4181**, and the grayscale version is **6.4056, 6.7392, 7.3390**.

A 20% lighter version of the original color is **45.9093, 28.9776, 8.4837**, and **9.8315, 5.0683, 0.4601** is the 20% darker color. If you saturate the color by 10%, you get **23.2921, 12.0111, 1.0965**, and if you desaturate by 10%, it is **24.4209, 13.6632, 3.3399**.

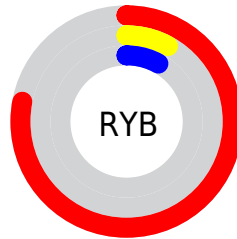
# Distribution



Red (78%)

Green (8%)

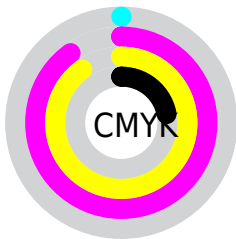
Blue (8%)



Red (78%)

Yellow (8%)

Blue (8%)

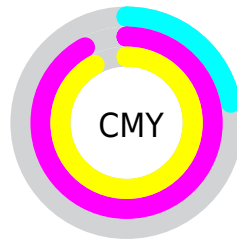


Cyan (0%)

Magenta (90%)

Yellow (90%)

Black (22%)



Cyan (22%)

Magenta (92%)


Yellow (92%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.6651, 12.5566, 1.8382 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 23.6651, 12.5566, 1.8382 by changing the saturation by 10% instead.





 23.6651, 12.5566,  
1.8382


 23.6651, 12.5566,  
1.8382


263.5949,  
208.0561, 119.8115


 15.2088, 7.1239,  
0.4530


 48.9418, 30.5049,  
8.5935


 9.0533, 3.5397,  
0.0000


 66.4929, 43.7893,  
14.8858


 4.8334, 1.4196,  
0.0000

 87.8063, 60.4597,  
23.6792

 2.1836, 0.2311,  
0.0000

 113.2473, 80.9005,  
35.3922


 0.7341, 0.0000,  
0.0000


 143.1813,  
105.4962, 50.4434


 0.0000, 0.0000,  
0.0000


 177.9737,


134.6311, 69.2513


 217.9898,  
168.6896, 92.2345


 23.6651, 12.5566,  
1.8382


 23.6651, 12.5566,  
1.8382


 23.2921, 12.0111,  
1.0965


 24.4209, 13.6632,  
3.3399

 23.2888, 12.0063,  
1.0900

 25.6896, 15.5198,  
5.8614

 27.5406, 18.2284,  
9.5407

 30.0324, 21.8747,  
14.4940

 33.2165, 26.5340,  
20.8237

■ 37.1390, 32.2738,  
28.6217

■ 41.8423, 39.1559,  
37.9718

■ 47.3653, 47.2374,  
48.9517

■ 53.7444, 56.5717,  
61.6339

# Harmonies

## Analogous

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



27.4193, 12.5566, 9.9016



23.6651, 12.5566, 1.8382



16.9674, 12.5566, 0.0000

# Triad

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



23.6651, 12.5566, 1.8382



4.1446, 12.5566, 4.4701



13.4554, 12.5566, 79.5751

# Complementary

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



23.6651, 12.5566, 1.8382



30.6695, 44.6020, 60.4181

# 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.



8.0108, 12.5566, 72.3679



23.6651, 12.5566, 1.8382



3.7606, 12.5566, 18.2953

# Square

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



23.6651, 12.5566, 1.8382



6.2239, 12.5566, 0.5865



4.9088, 12.5566, 45.0176



20.3706, 12.5566, 60.3939



# Rectangle

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



23.6651, 12.5566, 1.8382



12.4915, 12.5566, 0.0000



4.9088, 12.5566, 45.0176



11.3947, 12.5566, 80.3168

# Sweetspot

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



23.6654, 12.5574, 1.8384



67.7115, 59.9968, 54.5498



33.7316, 16.5832, 54.8486



13.9195, 12.0026, 10.5358



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



23.6654, 12.5574, 1.8384



41.2404, 21.2608, 1.9301



28.8834, 22.9934, 3.5777



10.6340, 10.6372, 11.0555



15.1455, 7.8082, 0.7089



0.7172, 0.3698, 0.0336



# Inverse Universe

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



30.6695, 44.6020, 60.4181



53.7983, 78.7166, 106.9661



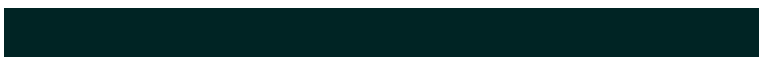
15.9501, 15.1632, 55.5117



10.9466, 12.0673, 13.6698



19.7574, 28.9086, 39.2830



0.9356, 1.3689, 1.8601



# Previews

## White Background



This preview shows how the XYZ color 23.6651, 12.5566, 1.8382 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 23.6651, 12.5566, 1.8382**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.6651, 12.5566, 1.8382.



This preview shows how white text looks on a background with the XYZ color 23.6651, 12.5566,



# 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

23.6651, 12.5566, 1.8382

### Protanopia

11.7977, 12.9516, 3.6284

### Deuteranopia

12.9353, 12.8778, 1.8039



## Tritanopia

23.6361, 12.5738, 1.5967

# Trichromacy



## Original Color

23.6651, 12.5566, 1.8382

## Protanomaly

14.0663, 10.6630, 2.6131

## Deuteranomaly

15.2423, 10.9219, 1.5058

## Tritanomaly

23.6504, 12.5795, 1.6718

# Monochromacy



## Original Color

23.6651, 12.5566, 1.8382

## Achromatopsia

6.3328, 6.6626, 7.2556

## Achromatomaly

9.4562, 6.7562, 4.2957

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.6651, 12.5566, 1.8382 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(198, 20, 20)` looks like.

```
.text, #text, p{  
  color:rgb(198, 20, 20)  
}
```

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(198, 20, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(198, 20, 20) }
```

## Border

The CSS property to change the border of an element to XYZ 23.6651, 12.5566, 1.8382 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(198, 20, 20) }
```



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

```
.border{ border-color:rgb(198, 20, 20) }
```

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

Here you see how a box with a 4 pixel `rgb(198, 20, 20)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(198, 20, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(198, 20, 20);  
box-shadow:4px 4px 4px 4px rgb(198, 20,  
20) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.6651, 12.5566, 1.8382 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(198, 20, 20) }
```

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

```
.background{ background-color: rgb(198, 20,  
20) }
```

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