

# Converting Colors

XYZ(24.4997, 13.8356, 2.6343)

Have a look what the booklet for  
XYZ(24.4997, 13.8356, 2.6343)  
contains.

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# Color

**XYZ(24.6155, 13.8918,  
2.6123)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C72A1E
RGB	199, 42, 30
RGB Percent	78%, 16%, 12%
CMY	0.2196, 0.8352, 0.8823
CMYK	0.00, 0.79, 0.85, 0.22
HSL	4°, 74%, 45%
HSV	4°, 85%, 78%
XYZ	24.6155, 13.8918, 2.6123
YIQ	87.5750, 97.4240, 29.5520

# Conversions

## Conversions Part 2

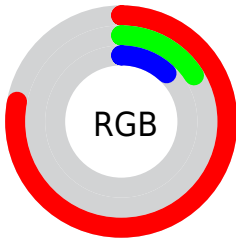
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	199, 43, 30
Decimal	13052446
CIE Lab	44.08, 59.75, 45.90
CIE LCh	44, 75.347, 37.528
Yxy	13.8918, 0.5986, 0.3378
Android (android.graphics.Color)	4291242526 (0xFFC72A1E)
YUV	87.5750, -28.3845, 97.7197
Hunter-Lab	37.2717, 52.6620, 21.9347

# Details

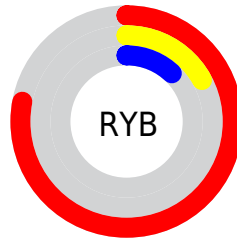
The XYZ color **24.6155, 13.8918, 2.6123** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark washed red. A complement of this color would be **28.6116, 39.9344, 60.2325**, and the grayscale version is **9.2295, 9.7101, 10.5743**.

A 20% lighter version of the original color is **47.3309, 31.2986, 10.5678**, and **10.1533, 5.2342, 0.4752** is the 20% darker color. If you saturate the color by 10%, you get **23.9253, 12.7981, 1.4993**, and if you desaturate by 10%, it is **25.7687, 15.6557, 4.6701**.

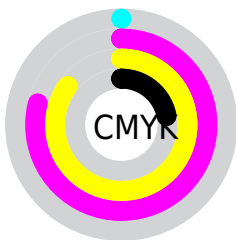
# Distribution



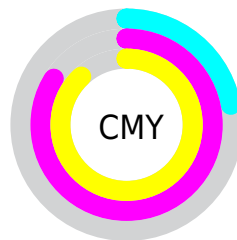
- Red (78%)
- Green (16%)
- Blue (12%)



- Red (78%)
- Yellow (17%)
- Blue (12%)



- Cyan (0%)
- Magenta (79%)
- Yellow (85%)
- Black (22%)




- Cyan (22%)
- Magenta (84%)
- Yellow (88%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.6155, 13.8918, 2.6123 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 24.6155, 13.8918, 2.6123 by changing the saturation by 10% instead.





 24.6155, 13.8918,  
2.6123


 24.6155, 13.8918,  
2.6123


268.3008,  
216.5567, 131.2583


 15.9180, 8.0454,  
0.8988


 50.4802, 32.8969,  
10.6558


 9.5566, 4.1240,  
0.0000


 68.3781, 46.8245,  
17.8243

 5.1660, 1.7432,  
0.0000

 90.0735, 64.2146,  
27.6487

 2.3807, 0.4514,  
0.0000

 115.9318, 85.4516,  
40.5476

 0.8355, 0.0000,  
0.0000

 146.3183,  
110.9199, 56.9394

 0.0000, 0.0000,  
0.0000

 181.5984,

141.0039, 77.2428

222.1374,  
176.0880, 101.8762

24.6155, 13.8918,  
2.6123

24.6155, 13.8918,  
2.6123

23.9253, 12.7981,  
1.4993

25.7687, 15.6557,  
4.6701

23.7120, 12.4600,  
1.1553

27.4471, 18.1714,  
7.8222

29.7040, 21.5116,  
12.1927

32.5860, 25.7396,  
17.8888

36.1349, 30.9126,  
25.0059

■ 40.3890, 37.0830,  
33.6306

■ 45.3834, 44.2993,  
43.8427

■ 51.1512, 52.6070,  
55.7163

■ 57.7232, 62.0487,  
69.3209

# Harmonies

## Analogous

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



28.2429, 13.8918, 11.2002



24.6155, 13.8918, 2.6123



18.1172, 13.8918, 0.4453

# Triad

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



24.6155, 13.8918, 2.6123



5.1603, 13.8918, 5.6920



14.7721, 13.8918, 77.1212

# Complementary

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



24.6155, 13.8918, 2.6123



28.6116, 39.9344, 60.2325

# 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.



9.2702, 13.8918, 70.7249



24.6155, 13.8918, 2.6123



4.7566, 13.8918, 19.8758

# Square

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



24.6155, 13.8918, 2.6123



7.3538, 13.8918, 1.1458



6.0103, 13.8918, 45.4588



21.5426, 13.8918, 59.3082



# Rectangle

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



24.6155, 13.8918, 2.6123



13.7070, 13.8918, 0.0502



6.0103, 13.8918, 45.4588



12.7129, 13.8918, 77.8756

# Sweetspot

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



24.6158, 13.8927, 2.6125



70.3622, 64.4140, 58.1592



33.0656, 16.6899, 48.9047



14.4652, 12.9249, 11.2387



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.



24.6158, 13.8927, 2.6125



41.4584, 21.6967, 2.0028



31.2184, 27.0978, 4.8134



10.6934, 10.7560, 11.0753



15.2719, 8.0610, 0.7510



0.7447, 0.4248, 0.0427



# Inverse Universe

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



28.6116, 39.9344, 60.2325



48.2977, 67.7154, 105.1326



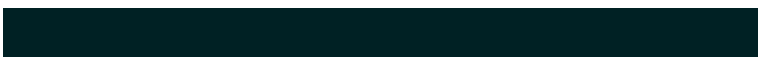
15.7177, 14.1465, 55.9345



10.8797, 11.9335, 13.6475



17.7921, 24.9781, 38.6279



0.8622, 1.2223, 1.8356



# Previews

## White Background



This preview shows how the XYZ color 24.6155, 13.8918, 2.6123 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 24.6155, 13.8918, 2.6123 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 24.6155, 13.8918, 2.6123**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.6155, 13.8918, 2.6123.



This preview shows how white text looks on a background with the XYZ color 24.6155, 13.8918,



# 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

24.6155, 13.8918, 2.6123

### Protanopia

12.8808, 14.0823, 4.6240

### Deuteranopia

14.2300, 14.1009, 1.9717



## Tritanopia

24.7464, 13.8881, 3.4742

# Trichromacy



## Original Color

24.6155, 13.8918, 2.6123

## Protanomaly

15.4329, 12.3908, 3.5857

## Deuteranomaly

16.7610, 12.7842, 1.9008

## Tritanomaly

24.6801, 13.8616, 3.1250

# Monochromacy



## Original Color

24.6155, 13.8918, 2.6123

## Achromatopsia

9.2757, 9.7587, 10.6273

## Achromatomaly

12.1684, 9.5009, 6.5027

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.6155, 13.8918, 2.6123 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(199, 42, 30)` looks like.

```
.text, #text, p{  
    color:rgb(199, 42, 30)  
}
```

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(199, 42, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 42, 30) }
```

## Border

The CSS property to change the border of an element to XYZ 24.6155, 13.8918, 2.6123 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(199, 42, 30) }
```



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

```
.border{ border-color:rgb(199, 42, 30) }
```

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

Here you see how a box with a 4 pixel rgb(199, 42, 30) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 42, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 42, 30);  
box-shadow:4px 4px 4px 4px rgb(199, 42,  
30) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.6155, 13.8918, 2.6123 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 42, 30) }
```

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

```
.background{ background-color: rgb(199, 42,  
30) }
```

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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