

# Converting Colors

XYZ(24.7254, 14.3406, 2.1373)

Have a look what the booklet for  
XYZ(24.7254, 14.3406, 2.1373)  
contains.

<b>XYZ(24.7778, 14.3892, 2.1333)</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(24.7778, 14.3892,  
2.1333)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C73114
RGB	199, 49, 20
RGB Percent	78%, 19%, 8%
CMY	0.2196, 0.8078, 0.9216
CMYK	0.00, 0.75, 0.90, 0.22
HSL	10°, 82%, 43%
HSV	10°, 90%, 78%
XYZ	24.7778, 14.3892, 2.1333
YIQ	90.5440, 98.7090, 22.7810

# Conversions

## Conversions Part 2

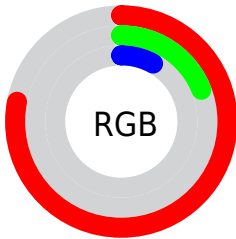
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	199, 55, 20
Decimal	13054228
CIE <sub>Lab</sub>	44.79, 57.40, 50.89
CIE <sub>LCh</sub>	45, 76.707, 41.558
Yxy	14.3892, 0.5999, 0.3484
Android (android.graphics.Color)	4291244308 (0xFFC73114)
YUV	90.5440, -34.7782, 95.1159
Hunter-Lab	37.9331, 50.2128, 23.2188

# Details

The XYZ color **24.7778, 14.3892, 2.1333** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **24.9703, 33.0182, 59.0896**, and the grayscale version is **9.9021, 10.4178, 11.3450**.

A 20% lighter version of the original color is **47.5719, 32.2051, 9.3391**, and **10.1533, 5.2342, 0.4752** is the 20% darker color. If you saturate the color by 10%, you get **24.0792, 13.1935, 1.2804**, and if you desaturate by 10%, it is **25.8643, 16.1544, 3.7536**.

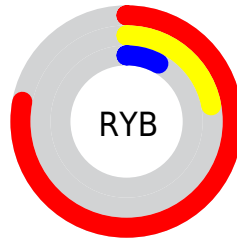
# Distribution



Red (78%)

Green (19%)

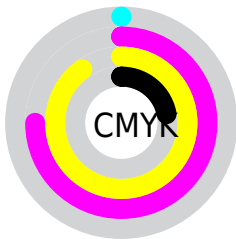
Blue (8%)



Red (78%)

Yellow (22%)

Blue (8%)

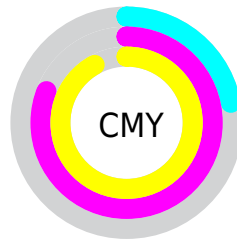


Cyan (0%)

Magenta (75%)

Yellow (90%)

Black (22%)



Cyan (22%)

Magenta (81%)


Yellow (92%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.7778, 14.3892, 2.1333 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 24.7778, 14.3892, 2.1333 by changing the saturation by 10% instead.





 24.7778, 14.3892,  
2.1333


 24.7778, 14.3892,  
2.1333


269.0977,  
219.6388, 124.4135


 16.0394, 8.3919,  
0.6355


 50.7420, 33.7780,  
9.4021


 9.6431, 4.3467,  
0.0000


 68.6986, 47.9383,  
16.0462

 5.2234, 1.8693,  
0.0000

 90.4586, 65.5883,  
25.2547

 2.4150, 0.5298,  
0.0000

 116.3874, 87.1125,  
37.4463

 0.8526, 0.0000,  
0.0000


 146.8503,  
112.8953, 53.0394


 0.0000, 0.0000,  
0.0000


 182.2128,


143.3210, 72.4526


 222.8401,  
178.7740, 96.1044


 24.7778, 14.3892,  
2.1333


 24.7778, 14.3892,  
2.1333


 24.0792, 13.1935,  
1.2804


 25.8643, 16.1544,  
3.7536

 24.0764, 13.1886,  
1.2767

 27.4080, 18.5553,  
6.3845

 29.4552, 21.6472,  
10.1576

 32.0461, 25.4785,  
15.1846

 35.2166, 30.0932,  
21.5635

■ 38.9996, 35.5318,  
29.3830

■ 43.4254, 41.8319,  
38.7238

■ 48.5222, 49.0289,  
49.6608

■ 54.3166, 57.1562,  
62.2640

# Harmonies

## Analogous

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



29.1433, 14.3892, 9.7359



24.7778, 14.3892, 2.1333



17.8392, 14.3892, 0.3111

# Triad

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



24.7778, 14.3892, 2.1333



5.1531, 14.3892, 7.1100



16.2272, 14.3892, 79.3165

# Complementary

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



24.7778, 14.3892, 2.1333



24.9703, 33.0182, 59.0896

# 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.



10.2177, 14.3892, 76.2062



24.7778, 14.3892, 2.1333



4.9608, 14.3892, 23.6205

# Square

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



24.7778, 14.3892, 2.1333



7.1554, 14.3892, 1.4499



6.5134, 14.3892, 51.3629



23.2929, 14.3892, 58.0817



# Rectangle

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



24.7778, 14.3892, 2.1333



13.3524, 14.3892, 0.0376



6.5134, 14.3892, 51.3629



14.0058, 14.3892, 81.3530

# Sweetspot

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



24.7781, 14.3901, 2.1335



70.1552, 64.8841, 55.3643



31.2641, 15.6267, 40.4737



14.4769, 13.1174, 10.7216



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.



24.7781, 14.3901, 2.1335



42.0443, 22.8685, 2.1981



32.5329, 29.8997, 4.7185



10.7704, 10.9100, 11.1009



15.5247, 8.5665, 0.8353



0.7799, 0.4953, 0.0545

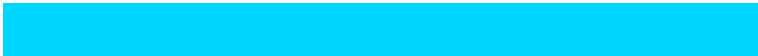


# Inverse Universe

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



24.9703, 33.0182, 59.0896



42.0141, 55.1483, 103.0380



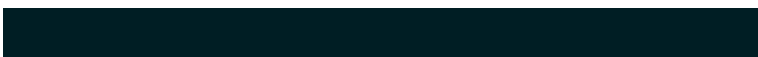
13.6639, 10.4055, 55.3209



10.7947, 11.7635, 13.6191



15.5392, 20.4722, 37.8769



0.7760, 1.0498, 1.8069



# Previews

## White Background



This preview shows how the XYZ color 24.7778, 14.3892, 2.1333 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 24.7778, 14.3892, 2.1333**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.7778, 14.3892, 2.1333.



This preview shows how white text looks on a background with the XYZ color 24.7778, 14.3892,



# 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

24.7778, 14.3892, 2.1333

### Protanopia

13.2922, 14.6240, 3.6355

### Deuteranopia

14.6454, 14.4583, 2.0188



## Tritanopia

25.3095, 14.4386, 4.1423

# Trichromacy



## Original Color

24.7778, 14.3892, 2.1333

## Protanomaly

15.9440, 13.1338, 2.8571

## Deuteranomaly

17.1562, 13.3190, 1.8676

## Tritanomaly

25.1699, 14.4460, 3.2120

# Monochromacy



## Original Color

24.7778, 14.3892, 2.1333

## Achromatopsia

9.9438, 10.4616, 11.3927

## Achromatomaly

12.7445, 10.2964, 6.3167

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.7778, 14.3892, 2.1333 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, 49, 20)` looks like.

```
.text, #text, p{  
    color:rgb(199, 49, 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(199, 49, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 49, 20) }
```

## Border

The CSS property to change the border of an element to XYZ 24.7778, 14.3892, 2.1333 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, 49, 20) }
```



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

```
.border{ border-color:rgb(199, 49, 20) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 49, 20)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 49, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 49, 20);  
box-shadow:4px 4px 4px 4px rgb(199, 49,  
20) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.7778, 14.3892, 2.1333 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 49, 20) }
```

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

```
.background{ background-color: rgb(199, 49,  
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](#).

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