

# Converting Colors

XYZ(42.5412, 23.1641, 4.5167)

Have a look what the booklet for  
XYZ(42.5412, 23.1641, 4.5167)  
contains.

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# Color

**XYZ(42.5399, 23.1622,  
4.5141)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF2B2B
RGB	255, 43, 43
RGB Percent	100%, 17%, 17%
CMY	0.0000, 0.8313, 0.8314
CMYK	0.00, 0.83, 0.83, 0.00
HSL	0°, 100%, 58%
HSV	0°, 83%, 100%
XYZ	42.5399, 23.1622, 4.5141
YIQ	106.3880, 126.3520, 44.9440

# Conversions

## Conversions Part 2

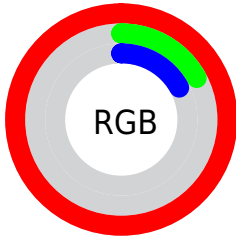
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 43, 43
Decimal	16722731
CIE <sub>Lab</sub>	55.24, 75.40, 53.61
CIE <sub>LCh</sub>	55, 92.512, 35.412
Yxy	23.1622, 0.6058, 0.3299
Android (android.graphics.Color)	4294912811 (0xFFFF2B2B)
YUV	106.3880, -31.2503, 130.3327
Hunter-Lab	48.1271, 73.5549, 28.1279

# Details

The XYZ color **42.5399, 23.1622, 4.5141** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **54.7986, 79.2385, 107.0133**, and the grayscale version is **13.8680, 14.5902, 15.8887**.

A 20% lighter version of the original color is **48.9225, 33.6037, 13.8052**, and **20.7390, 10.6914, 0.9706** is the 20% darker color. If you saturate the color by 10%, you get **41.5535, 21.7193, 2.5532**, and if you desaturate by 10%, it is **44.3971, 25.8807, 8.2047**.

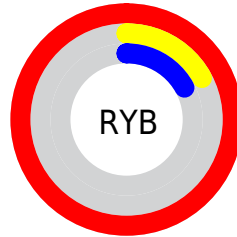
# Distribution



Red (100%)

Green (17%)

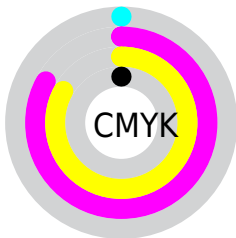
Blue (17%)



Red (100%)

Yellow (17%)

Blue (17%)

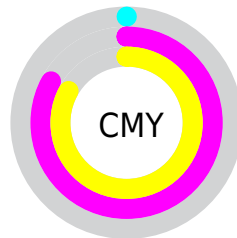


Cyan (0%)

Magenta (83%)

Yellow (83%)

Black (0%)



Cyan (0%)

Magenta (83%)


Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.5399, 23.1622, 4.5141 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 42.5399, 23.1622, 4.5141 by changing the saturation by 10% instead.





 42.5399, 23.1622,  
4.5141


 42.5399, 23.1622,  
4.5141


347.6698,  
268.5570, 153.7788


 29.7172, 14.7133,  
1.9114


 78.2761, 48.6595,  
15.1791


 19.7711, 8.6184,  
0.5000


 101.9204, 66.4768,  
24.0784


 12.3360, 4.4932,  
0.0000


 129.9026, 88.1856,  
35.9138

 7.0468, 1.9531,  
0.0000

 162.5881,  
114.1703, 51.1036

 3.5380, 0.5800,  
0.0000

 200.3422,  
144.8155, 70.0665

 1.4442, 0.0000,  
0.0000

 243.5303,

 0.2874, 0.0000,

180.5054, 93.2209

0.0000

292.5177,  
221.6244, 120.9856

■ 0.0000, 0.0000,  
0.0000

■ 42.5399, 23.1622,  
4.5141

■ 42.5399, 23.1622,  
4.5141

■ 41.5535, 21.7193,  
2.5532

■ 44.3971, 25.8807,  
8.2047

■ 41.2399, 21.2604,  
1.9301

■ 47.2643, 30.0764,  
13.9039

■ 51.2577, 35.9202,  
21.8423

■ 56.4776, 43.5585,  
32.2189

■ 63.0130, 53.1216,  
45.2109

70.9447, 64.7279,  
60.9789

80.3470, 78.4859,  
79.6707

91.2889, 94.4969,  
101.4235

95.0496, 99.9998,  
108.9000

# Harmonies

## Analogous

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



48.3597, 23.1622, 20.2181



42.5399, 23.1622, 4.5141



31.3757, 23.1622, 0.7772

# Triad

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



42.5399, 23.1622, 4.5141



8.4256, 23.1622, 8.1629



23.9453, 23.1622, 135.1243

# Complementary

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



42.5399, 23.1622, 4.5141



54.7986, 79.2385, 107.0133

# 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.



14.7301, 23.1622, 120.6309



42.5399, 23.1622, 4.5141



7.5532, 23.1622, 30.9848

# Square

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



42.5399, 23.1622, 4.5141



12.3809, 23.1622, 1.4520



9.4541, 23.1622, 74.7477



35.6746, 23.1622, 106.0082



# Rectangle

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



42.5399, 23.1622, 4.5141



23.6454, 23.1622, 0.2114



9.4541, 23.1622, 74.7477



20.4612, 23.1622, 135.3429

# Sweetspot

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



42.5404, 23.1636, 4.5144



69.3584, 62.4063, 57.8246



60.1534, 30.2075, 97.2671



14.2343, 12.4631, 11.1617



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.



42.5404, 23.1636, 4.5144



41.2403, 21.2606, 1.9301



52.4231, 42.9290, 7.8087



18.0096, 17.9874, 18.6670



21.5490, 11.1092, 1.0085



2.0982, 1.0818, 0.0982



# Inverse Universe

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



54.7986, 79.2385, 107.0133



53.8013, 78.7227, 106.9671



29.7935, 29.2283, 98.6783



18.5548, 20.4812, 23.2253



28.1124, 41.1345, 55.8926



2.7373, 4.0052, 5.4421



# Previews

## White Background



This preview shows how the XYZ color 42.5399, 23.1622, 4.5141 looks on a white 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



# Black Background



This preview shows how the XYZ color 42.5399, 23.1622, 4.5141 looks on a black 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

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.5399, 23.1622, 4.5141**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.5399, 23.1622, 4.5141.



This preview shows how white text looks on a background with the XYZ color 42.5399, 23.1622,

4.5141.

# 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

42.5399, 23.1622, 4.5141

### Protanopia

21.3743, 23.3598, 8.3834

### Deuteranopia

23.7185, 23.2902, 3.8176



## Tritanopia

42.5041, 23.1478, 4.3256

# Trichromacy



## Original Color

42.5399, 23.1622, 4.5141

## Protanomaly

25.5454, 19.8489, 6.3557

## Deuteranomaly

28.2001, 20.7242, 3.5508

## Tritanomaly

42.5218, 23.1549, 4.4187

# Monochromacy



## Original Color

42.5399, 23.1622, 4.5141

## Achromatopsia

13.6994, 14.4128, 15.6956

## Achromatomaly

19.1518, 14.2846, 9.9314

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.5399, 23.1622, 4.5141 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(255, 43, 43)` looks like.

```
.text, #text, p{  
    color:rgb(255, 43, 43)  
}
```

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(255, 43, 43) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 43, 43) }
```

## Border

The CSS property to change the border of an element to XYZ 42.5399, 23.1622, 4.5141 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(255, 43, 43) }
```



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

```
.border{ border-color:rgb(255, 43, 43) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 43, 43)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 43, 43); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 43, 43);  
box-shadow:4px 4px 4px 4px rgb(255, 43,  
43) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.5399, 23.1622, 4.5141 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 43, 43) }
```

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

```
.background{ background-color: rgb(255, 43,  
43) }
```

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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