

# Converting Colors

XYZ(40.9394, 23.4508, 4.7489)

Have a look what the booklet for  
XYZ(40.9394, 23.4508, 4.7489)  
contains.

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# Color

**XYZ(40.7819, 23.3700,  
4.7443)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F83C2C
RGB	248, 60, 44
RGB Percent	97%, 24%, 17%
CMY	0.0275, 0.7646, 0.8274
CMYK	0.00, 0.76, 0.82, 0.03
HSL	5°, 94%, 57%
HSV	5°, 82%, 97%
XYZ	40.7819, 23.3700, 4.7443
YIQ	114.3880, 117.1840, 34.8800

# Conversions

## Conversions Part 2

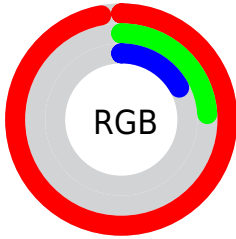
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	248, 61, 44
Decimal	16268332
CIE Lab	55.45, 69.14, 52.81
CIE LCh	55, 87.004, 37.376
Yxy	23.3700, 0.5919, 0.3392
Android (android.graphics.Color)	4294458412 (0xFFFF83C2C)
YUV	114.3880, -34.7013, 117.1777
Hunter-Lab	48.3425, 65.9837, 28.0211

# Details

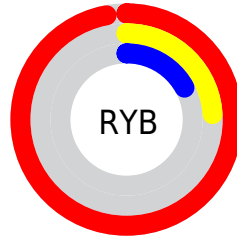
The XYZ color **40.7819, 23.3700, 4.7443** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **46.8345, 65.0180, 98.8876**, and the grayscale version is **16.1891, 17.0322, 18.5481**.

A 20% lighter version of the original color is **50.0091, 35.7075, 14.3817**, and **19.2914, 9.9451, 0.9028** is the 20% darker color. If you saturate the color by 10%, you get **39.4970, 21.3372, 2.6619**, and if you desaturate by 10%, it is **42.8623, 26.5498, 8.4634**.

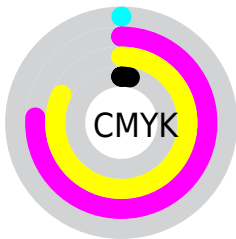
# Distribution



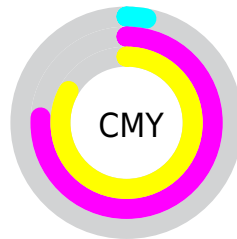
- Red (97%)
- Green (24%)
- Blue (17%)



- Red (97%)
- Yellow (24%)
- Blue (17%)



- Cyan (0%)
- Magenta (76%)
- Yellow (82%)
- Black (3%)




- Cyan (3%)
- Magenta (76%)
- Yellow (83%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.7819, 23.3700, 4.7443 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 40.7819, 23.3700, 4.7443 by changing the saturation by 10% instead.




 40.7819, 23.3700,  
4.7443


 40.7819, 23.3700,  
4.7443


340.4864,  
269.6197, 156.1702


 28.3356, 14.8670,  
2.0419


 75.6295, 49.0002,  
15.6929


 18.7206, 8.7261,  
0.5809


 98.7615, 66.8961,  
24.7762

 11.5713, 4.5629,  
0.0000


 126.1862, 88.6917,  
36.8236

 6.5226, 1.9932,  
0.0000

 158.2688,  
114.7715, 52.2535

 3.2090, 0.6035,  
0.0000

 195.3748,  
145.5197, 71.4847

 1.2653, 0.0000,  
0.0000

 237.8695,

 0.1570, 0.0000,

181.3210, 94.9354

0.0000

286.1183,  
222.5595, 123.0245

■ 0.0000, 0.0000,  
0.0000

■ 40.7819, 23.3700,  
4.7443

■ 40.7819, 23.3700,  
4.7443

■ 39.4970, 21.3372,  
2.6619

■ 42.8623, 26.5498,  
8.4634

■ 38.9520, 20.4381,  
1.8919

■ 45.8390, 31.0080,  
14.0652

■ 49.7993, 36.8624,  
21.7551

■ 54.8198, 44.2166,  
31.7118

■ 60.9694, 53.1641,  
44.0944

68.3112, 63.7909,  
59.0480

76.9035, 76.1769,  
76.7063

86.8011, 90.3967,  
97.1935

92.5211, 98.6963,  
108.7817

# Harmonies

## Analogous

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



46.6006, 23.3700, 19.1335



40.7819, 23.3700, 4.7443



30.2698, 23.3700, 1.0733

# Triad

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



40.7819, 23.3700, 4.7443



8.9734, 23.3700, 9.8305



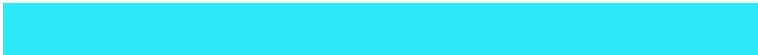
24.7178, 23.3700, 125.1049

# Complementary

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



40.7819, 23.3700, 4.7443



46.8345, 65.0180, 98.8876

# 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.



15.7292, 23.3700, 114.7013



40.7819, 23.3700, 4.7443



8.2852, 23.3700, 33.0133

# Square

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



40.7819, 23.3700, 4.7443



12.6327, 23.3700, 2.1494



10.3598, 23.3700, 74.2092



35.7116, 23.3700, 96.8332



# Rectangle

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



40.7819, 23.3700, 4.7443



23.0857, 23.3700, 0.6078



10.3598, 23.3700, 74.2092



21.3616, 23.3700, 126.2346

# Sweetspot

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



40.7824, 23.3714, 4.7446



70.4688, 64.6273, 58.1948



54.5206, 27.7213, 80.6203



14.4898, 12.9741, 11.2469



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.



40.7824, 23.3714, 4.7446



41.5479, 21.8535, 2.1016



51.6674, 45.1413, 8.3730



17.3541, 17.4440, 17.9148



21.0801, 11.1169, 1.0347



1.9889, 1.1027, 0.1080



# Inverse Universe

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



46.8345, 65.0180, 98.8876



47.8427, 66.7580, 104.9718



26.2876, 23.9241, 92.0387



17.6424, 19.3616, 22.1926



24.2671, 33.8897, 53.2359



2.2811, 3.2060, 4.9418



# Previews

## White Background



This preview shows how the XYZ color 40.7819, 23.3700, 4.7443 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 40.7819, 23.3700, 4.7443 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 40.7819, 23.3700, 4.7443**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.7819, 23.3700, 4.7443.



This preview shows how white text looks on a background with the XYZ color 40.7819, 23.3700,



# 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

40.7819, 23.3700, 4.7443

### Protanopia

21.4975, 23.4298, 8.0920

### Deuteranopia

23.7742, 23.3125, 4.1109



## Tritanopia

41.0139, 23.2983, 6.4730

# Trichromacy



## Original Color

40.7819, 23.3700, 4.7443

## Protanomaly

25.6350, 20.7839, 6.4020

## Deuteranomaly

28.0247, 21.4720, 3.9638

## Tritanomaly

40.9412, 23.3507, 5.8393

# Monochromacy



## Original Color

40.7819, 23.3700, 4.7443

## Achromatopsia

15.9940, 16.8269, 18.3245

## Achromatomaly

20.9101, 16.5132, 11.5365

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.7819, 23.3700, 4.7443 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(248, 60, 44)` looks like.

```
.text, #text, p{  
    color:rgb(248, 60, 44)  
}
```

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(248, 60, 44) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(248, 60, 44) }
```

## Border

The CSS property to change the border of an element to XYZ 40.7819, 23.3700, 4.7443 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(248, 60, 44) }
```



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

```
.border{ border-color:rgb(248, 60, 44) }
```

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

Here you see how a box with a 4 pixel `rgb(248, 60, 44)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(248, 60, 44); -webkit-box-  
shadow:4px 4px 4px 4px rgb(248, 60, 44);  
box-shadow:4px 4px 4px 4px rgb(248, 60,  
44) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.7819, 23.3700, 4.7443 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(248, 60, 44) }
```

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

```
.background{ background-color: rgb(248, 60,  
44) }
```

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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