

# Converting Colors

XYZ(38.8068, 23.1275, 2.4187)

Have a look what the booklet for  
XYZ(38.8068, 23.1275, 2.4187)  
contains.

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# Color

**XYZ(38.7461, 23.1335,  
2.4231)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | F24500                      |
| RGB         | 242, 69, 0                  |
| RGB Percent | 95%, 27%, 0%                |
| CMY         | 0.0510, 0.7294, 1.0000      |
| CMYK        | 0.00, 0.71, 1.00, 0.05      |
| HSL         | 17°, 100%, 47%              |
| HSV         | 17°, 100%, 95%              |
| XYZ         | 38.7461, 23.1335, 2.4231    |
| YIQ         | 112.8610, 125.2570, 15.2170 |

# Conversions

## Conversions Part 2

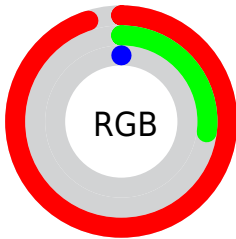
| <b>Format</b>                       | <b>Color</b>                    |
|-------------------------------------|---------------------------------|
| <b>R<sub>YB</sub></b>               | 242, 97, 0                      |
| Decimal                             | 15877376                        |
| CIE <sub>Lab</sub>                  | 55.21, 63.80, 66.52             |
| CIE <sub>LCh</sub>                  | 55, 92.170, 46.196              |
| Yxy                                 | 23.1335, 0.6026,<br>0.3598      |
| Android<br>(android.graphics.Color) | 4294067456<br>(0xFFFF24500)     |
| YUV                                 | 112.8610, -55.6405,<br>113.2549 |
| Hunter-Lab                          | 48.0973, 59.6253,<br>30.6811    |

# Details

The XYZ color **38.7461, 23.1335, 2.4231** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **30.9688, 36.2946, 89.3771**, and the grayscale version is **15.7902, 16.6125, 18.0910**.

A 20% lighter version of the original color is **49.6989, 36.7865, 9.0385**, and **17.9045, 9.2301, 0.8379** is the 20% darker color. If you saturate the color by 10%, you get **38.7464, 23.1345, 2.4232**, and if you desaturate by 10%, it is **40.1374, 25.6493, 3.7107**.

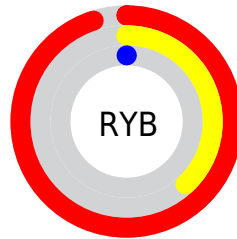
# Distribution



Red (95%)

Green (27%)

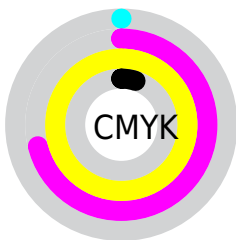
Blue (0%)



Red (95%)

Yellow (38%)

Blue (0%)

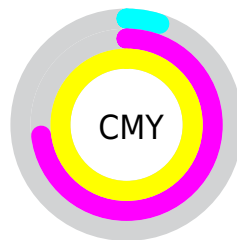


Cyan (0%)

Magenta (71%)

Yellow (100%)

Black (5%)



Cyan (5%)

Magenta (73%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.7461, 23.1335, 2.4231 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 38.7461, 23.1335, 2.4231 by changing the saturation by 10% instead.





 38.7461, 23.1335,  
2.4231


 38.7461, 23.1335,  
2.4231


332.0356,  
268.4099, 128.6349

 26.7421, 14.6921,  
0.7990


 72.5468, 48.6124,  
10.1682


 17.5152, 8.6036,  
0.0000


 95.0743, 66.4188,  
17.1356

 10.7001, 4.4835,  
0.0000


 121.8403, 88.1156,  
26.7242

 5.9313, 1.9476,  
0.0000

 153.2101,  
114.0872, 39.3526

 2.8436, 0.5767,  
0.0000

 189.5493,  
144.7180, 55.4393


 1.0716, 0.0000,  
0.0000

 231.2230,


 0.0012, 0.0000,


180.3925, 75.4029


0.0000


 278.5966,  
221.4950, 99.6619


 0.0000, 0.0000,  
0.0000


 38.7461, 23.1335,  
2.4231


 38.7461, 23.1335,  
2.4231


 38.7464, 23.1345,  
2.4232

 40.1374, 25.6493,  
3.7107

 42.0708, 28.9163,  
6.2043

 44.6336, 33.0057,  
10.2531

 47.8847, 37.9734,  
16.0673

 51.8751, 43.8697,  
23.8241

■ 56.6508, 50.7407,  
33.6788

■ 62.2534, 58.6295,  
45.7708

■ 68.7218, 67.5763,  
60.2276

■ 76.0920, 77.6190,  
77.1667

# Harmonies

## Analogous

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



47.0221, 23.1335, 12.4478



38.7461, 23.1335, 2.4231



27.0608, 23.1335, 0.3972

# Triad

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



38.7461, 23.1335, 2.4231



7.8161, 23.1335, 13.9325



27.9881, 23.1335, 128.3773

# Complementary

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



38.7461, 23.1335, 2.4231



30.9688, 36.2946, 89.3771

# 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.



17.5919, 23.1335, 130.2004



38.7461, 23.1335, 2.4231



7.9239, 23.1335, 44.5552

# Square

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



38.7461, 23.1335, 2.4231



10.5665, 23.1335, 2.7918



10.9292, 23.1335, 92.3175



39.6051, 23.1335, 88.3953



# Rectangle

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



38.7461, 23.1335, 2.4231



19.9185, 23.1335, 0.2487



10.9292, 23.1335, 92.3175



24.1954, 23.1335, 134.1476

# Sweetspot

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



38.7466, 23.1349, 2.4234



70.0535, 65.9491, 51.4204



44.2026, 21.9112, 41.6553



14.3991, 13.2821, 9.7079



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.



38.7466, 23.1349, 2.4234



43.6040, 25.9879, 2.7180



54.9375, 55.5167, 7.8204



16.1399, 16.4929, 16.4825



20.9154, 12.6289, 1.3353



1.8217, 1.2141, 0.1383



# Inverse Universe

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



30.9688, 36.2946, 89.3771



34.8361, 40.7921, 100.6454



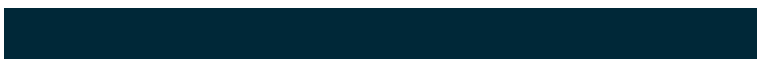
17.2745, 8.9059, 84.8123



15.8443, 17.1228, 20.1916



16.7590, 19.7422, 48.0552



1.4785, 1.8110, 4.0258



# Previews

## White Background



This preview shows how the XYZ color 38.7461, 23.1335, 2.4231 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 38.7461, 23.1335, 2.4231 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 38.7461, 23.1335, 2.4231**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.7461, 23.1335, 2.4231.



This preview shows how white text looks on a background with the XYZ color 38.7461, 23.1335,



# 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

38.7461, 23.1335, 2.4231

### Protanopia

20.9798, 23.2438, 4.4176

### Deuteranopia

23.3972, 23.1372, 3.2328



## Tritanopia

39.8087, 23.1267, 7.6759

# Trichromacy



## Original Color

38.7461, 23.1335, 2.4231

## Protanomaly

25.2055, 21.2596, 3.3054

## Deuteranomaly

27.2997, 21.5725, 2.7251

## Tritanomaly

39.3464, 23.1255, 4.6754

# Monochromacy



## Original Color

38.7461, 23.1335, 2.4231

## Achromatopsia

15.6958, 16.5132, 17.9829

## Achromatomaly

19.9416, 16.4909, 8.2629

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.7461, 23.1335, 2.4231 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(242, 69, 0)` looks like.

```
.text, #text, p{  
    color:rgb(242, 69, 0)  
}
```

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(242, 69, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 69, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 38.7461, 23.1335, 2.4231 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(242, 69, 0) }
```



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

```
.border{ border-color:rgb(242, 69, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 69, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 69, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 69, 0);  
box-shadow:4px 4px 4px 4px rgb(242, 69, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 38.7461, 23.1335, 2.4231 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 69, 0) }
```

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

```
.background{ background-color: rgb(242, 69,  
0) }
```

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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