

# Converting Colors

XYZ(38.2679, 21.0398, 2.1722)

Have a look what the booklet for  
XYZ(38.2679, 21.0398, 2.1722)  
contains.

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# Color

**XYZ(38.2308, 21.0432,  
2.1616)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F42C04
RGB	244, 44, 4
RGB Percent	96%, 17%, 2%
CMY	0.0431, 0.8274, 0.9843
CMYK	0.00, 0.82, 0.98, 0.04
HSL	10°, 97%, 49%
HSV	10°, 98%, 96%
XYZ	38.2308, 21.0432, 2.1616
YIQ	99.2400, 132.0400, 29.9600

# Conversions

## Conversions Part 2

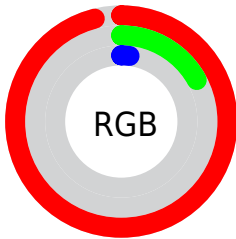
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	244, 52, 4
Decimal	16002052
CIE <sub>Lab</sub>	53.00, 71.69, 64.81
CIE <sub>LCh</sub>	53, 96.637, 42.114
Yxy	21.0432, 0.6223, 0.3425
Android (android.graphics.Color)	4294192132 (0xFFFF42C04)
YUV	99.2400, -46.9533, 126.9545
Hunter-Lab	45.8729, 68.4858, 29.3172

# Details

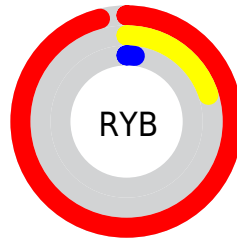
The XYZ color **38.2308, 21.0432, 2.1616** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **37.9674, 49.7341, 93.1858**, and the grayscale version is **12.0141, 12.6398, 13.7647**.

A 20% lighter version of the original color is **47.6854, 32.7597, 8.3674**, and **18.1315, 9.3471, 0.8485** is the 20% darker color. If you saturate the color by 10%, you get **38.0900, 20.7971, 2.0067**, and if you desaturate by 10%, it is **39.3756, 23.0252, 3.4929**.

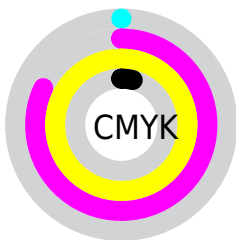
# Distribution



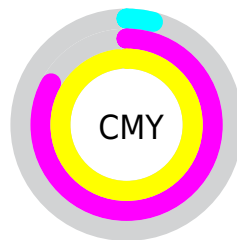
- Red (96%)
- Green (17%)
- Blue (2%)



- Red (96%)
- Yellow (20%)
- Blue (2%)



- Cyan (0%)
- Magenta (82%)
- Yellow (98%)
- Black (4%)




- Cyan (4%)
- Magenta (83%)
- Yellow (98%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.2308, 21.0432, 2.1616 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 38.2308, 21.0432, 2.1616 by changing the saturation by 10% instead.





 38.2308, 21.0432,  
2.1616

 38.2308, 21.0432,  
2.1616

329.8728,  
257.5080, 124.8377


 26.3399, 13.1556,  
0.6521


 71.7634, 45.1594,  
9.4781


 17.2121, 7.5358,  
0.0000


 94.1358, 62.1568,  
16.1546


 10.4821, 3.7994,  
0.0000


 120.7327, 82.9596,  
25.4013

 5.7844, 1.5620,  
0.0000

 151.9195,  
107.9521, 37.6369

 2.7539, 0.3318,  
0.0000

 188.0615,  
137.5189, 53.2798


 1.0250, 0.0000,  
0.0000


 229.5242,


 0.0000, 0.0000,


172.0441, 72.7485


0.0000


 276.6728,  
211.9124, 96.4616


 38.2308, 21.0432,  
2.1616


 38.2308, 21.0432,  
2.1616


 38.0900, 20.7971,  
2.0067

 39.3756, 23.0252,  
3.4929

 41.1695, 25.9352,  
6.1804

 43.7075, 29.8775,  
10.5218

 47.0638, 34.9391,  
16.7303

 51.3029, 41.1975,  
24.9869

■ 56.4829, 48.7231,  
35.4512

■ 62.6567, 57.5811,  
48.2668

■ 69.8731, 67.8320,  
63.5652

■ 78.1779, 79.5323,  
81.4682

# Harmonies

## Analogous

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



45.7620, 21.0432, 13.0786



38.2308, 21.0432, 2.1616



26.6066, 21.0432, 0.0000

# Triad

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



38.2308, 21.0432, 2.1616



6.5924, 21.0432, 9.6857



24.3779, 21.0432, 132.3517

# Complementary

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



38.2308, 21.0432, 2.1616



37.9674, 49.7341, 93.1858

# 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.



14.5905, 21.0432, 127.7212



38.2308, 21.0432, 2.1616



6.3528, 21.0432, 36.7416

# Square

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



38.2308, 21.0432, 2.1616



9.5681, 21.0432, 1.4378



8.7437, 21.0432, 84.4618



36.1320, 21.0432, 94.3102



# Rectangle

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



38.2308, 21.0432, 2.1616



19.2904, 21.0432, 0.0000



8.7437, 21.0432, 84.4618



20.7287, 21.0432, 136.2703

# Sweetspot

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



38.2312, 21.0445, 2.1619



68.0128, 61.8678, 50.7402



48.2504, 23.6794, 59.1539



13.9284, 12.3407, 9.5510



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.



38.2312, 21.0445, 2.1619



42.0865, 22.9530, 2.2122



50.6053, 45.7926, 6.2866



16.7224, 16.9288, 17.1838



20.7772, 11.4399, 1.1130



1.8891, 1.1314, 0.1188

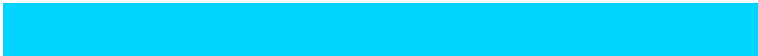


# Inverse Universe

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



37.9674, 49.7341, 93.1858



41.7138, 54.5475, 102.9379



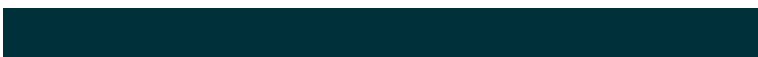
19.5495, 12.8982, 87.0465



16.7478, 18.2598, 21.1844



20.6187, 27.0311, 50.6688



1.8733, 2.4980, 4.4737



# Previews

## White Background



This preview shows how the XYZ color 38.2308, 21.0432, 2.1616 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 38.2308, 21.0432, 2.1616 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 38.2308, 21.0432, 2.1616**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.2308, 21.0432, 2.1616.



This preview shows how white text looks on a background with the XYZ color 38.2308, 21.0432,



# 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

38.2308, 21.0432, 2.1616

### Protanopia

19.1514, 21.1121, 4.2940

### Deuteranopia

21.3346, 21.1483, 2.9576



## Tritanopia

38.5192, 21.0422, 4.0389

# Trichromacy



## Original Color

38.2308, 21.0432, 2.1616

## Protanomaly

23.2324, 18.3068, 3.0186

## Deuteranomaly

25.4057, 18.9073, 2.3392

## Tritanomaly

38.3699, 21.0400, 3.0757

# Monochromacy



## Original Color

38.2308, 21.0432, 2.1616

## Achromatopsia

11.8596, 12.4772, 13.5877

## Achromatomaly

16.6703, 12.6375, 6.4112

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.2308, 21.0432, 2.1616 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(244, 44, 4)` looks like.

```
.text, #text, p{  
    color:rgb(244, 44, 4)  
}
```

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(244, 44, 4) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(244, 44, 4) }
```

## Border

The CSS property to change the border of an element to XYZ 38.2308, 21.0432, 2.1616 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(244, 44, 4) }
```



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

```
.border{ border-color:rgb(244, 44, 4) }
```

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

Here you see how a box with a 4 pixel rgb(244, 44, 4) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(244, 44, 4); -webkit-box-  
shadow:4px 4px 4px 4px rgb(244, 44, 4);  
box-shadow:4px 4px 4px 4px rgb(244, 44, 4)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 38.2308, 21.0432, 2.1616 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(244, 44, 4) }
```

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

```
.background{ background-color: rgb(244, 44,  
4) }
```

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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