

# Converting Colors

XYZ(38.9273, 21.9746, 3.1787)

Have a look what the booklet for  
XYZ(38.9273, 21.9746, 3.1787)  
contains.

<b>XYZ(38.8138, 21.9460, 3.1676)</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(38.8138, 21.9460,  
3.1676)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F4361A
RGB	244, 54, 26
RGB Percent	96%, 21%, 10%
CMY	0.0431, 0.7882, 0.8980
CMYK	0.00, 0.78, 0.89, 0.04
HSL	8°, 91%, 53%
HSV	8°, 89%, 96%
XYZ	38.8138, 21.9460, 3.1676
YIQ	107.6180, 122.2280, 31.5720

# Conversions

## Conversions Part 2

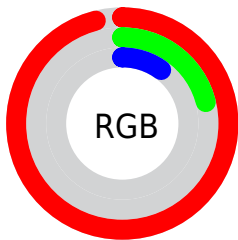
<b>Format</b>	<b>Color</b>
<b>R<sub>Y</sub>B</b>	244, 58, 26
Decimal	16004634
CIE Lab	53.97, 69.36, 59.13
CIE LCh	54, 91.141, 40.446
Yxy	21.9460, 0.6072, 0.3433
Android (android.graphics.Color)	4294194714 (0xFFFF4361A)
YUV	107.6180, -40.2377, 119.6070
Hunter-Lab	46.8466, 65.9112, 28.7836

# Details

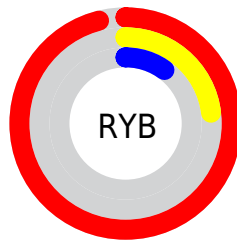
The XYZ color **38.8138, 21.9460, 3.1676** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark washed red. A complement of this color would be **41.3069, 55.8550, 94.1911**, and the grayscale version is **14.2339, 14.9752, 16.3080**.

A 20% lighter version of the original color is **48.9058, 34.5044, 10.9199**, and **18.3601, 9.4650, 0.8592** is the 20% darker color. If you saturate the color by 10%, you get **37.8536, 20.3104, 1.9712**, and if you desaturate by 10%, it is **40.4275, 24.5370, 5.6686**.

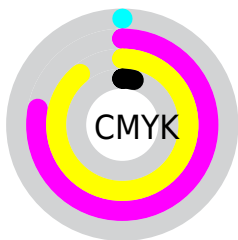
# Distribution



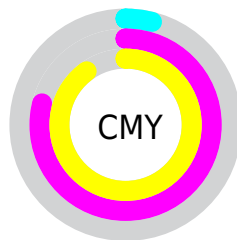
- Red (96%)
- Green (21%)
- Blue (10%)



- Red (96%)
- Yellow (23%)
- Blue (10%)



- Cyan (0%)
- Magenta (78%)
- Yellow (89%)
- Black (4%)




- Cyan (4%)
- Magenta (79%)
- Yellow (90%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.8138, 21.9460, 3.1676 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 38.8138, 21.9460, 3.1676 by changing the saturation by 10% instead.





 38.8138, 21.9460,  
3.1676


 38.8138, 21.9460,  
3.1676


332.3190,  
262.2641, 138.4674


 26.7950, 13.8172,  
1.1808


 72.6497, 46.6567,  
12.0393


 17.5551, 7.9937,  
0.0000


 95.1974, 64.0075,  
19.7613

 10.7288, 4.0909,  
0.0000


 121.9856, 85.2010,  
30.2321

 5.9507, 1.7245,  
0.0000

 153.3794,  
110.6217, 43.8703

 2.8555, 0.4395,  
0.0000

 189.7443,  
140.6540, 61.0943


 1.0778, 0.0000,  
0.0000

 231.4456,


 0.0064, 0.0000,


175.6822, 82.3229


0.0000


 278.8488,  
216.0908, 107.9744


 0.0000, 0.0000,  
0.0000


 38.8138, 21.9460,  
3.1676


 38.8138, 21.9460,  
3.1676


 37.8536, 20.3104,  
1.9712


 40.4275, 24.5370,  
5.6686

 37.8072, 20.2316,  
1.9124

 42.8039, 28.2037,  
9.8089

 46.0256, 33.0496,  
15.8084

 50.1641, 39.1646,  
23.8525

 55.2827, 46.6300,  
34.1043

61.4394, 55.5201,  
46.7103

68.6875, 65.9038,  
61.8044

77.0766, 77.8457,  
79.5105

86.6533, 91.4064,  
99.9441

# Harmonies

## Analogous

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



45.5307, 21.9460, 15.3595



38.8138, 21.9460, 3.1676



27.8501, 21.9460, 0.5010

# Triad

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



38.8138, 21.9460, 3.1676



7.6319, 21.9460, 9.9660



24.4790, 21.9460, 126.5288

# Complementary

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



38.8138, 21.9460, 3.1676



41.3069, 55.8550, 94.1911

# 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.



15.1483, 21.9460, 119.8864



38.8138, 21.9460, 3.1676



7.2411, 21.9460, 35.1215

# Square

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



38.8138, 21.9460, 3.1676



10.8389, 21.9460, 1.8351



9.5236, 21.9460, 79.0634



35.6893, 21.9460, 93.3496



# Rectangle

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



38.8138, 21.9460, 3.1676



20.7121, 21.9460, 0.1337



9.5236, 21.9460, 79.0634



21.0066, 21.9460, 129.2703

# Sweetspot

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



38.8143, 21.9474, 3.1679



69.6335, 63.8408, 55.1904



50.4064, 25.0634, 68.8996



14.3573, 12.8782, 10.6817



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.



38.8143, 21.9474, 3.1679



41.7775, 22.3350, 2.1092



50.1404, 44.5997, 6.9433



16.6707, 16.8256, 17.1666



20.6112, 11.1080, 1.0577

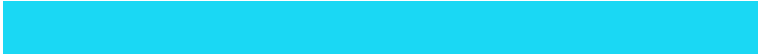


1.8648, 1.0828, 0.1107

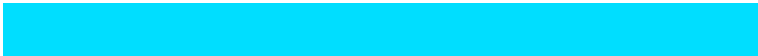


# Inverse Universe

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



41.3069, 55.8550, 94.1911



44.2325, 59.5850, 103.7775



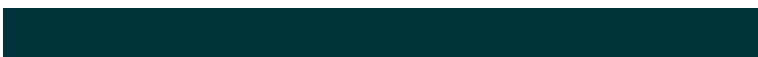
22.2844, 17.8100, 87.8503



16.8044, 18.3731, 21.2032



21.8394, 29.4727, 51.0758



1.9691, 2.6897, 4.5056



# Previews

## White Background



This preview shows how the XYZ color 38.8138, 21.9460, 3.1676 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 38.8138, 21.9460, 3.1676 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 38.8138, 21.9460, 3.1676**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.8138, 21.9460, 3.1676.



This preview shows how white text looks on a background with the XYZ color 38.8138, 21.9460,



# 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

38.8138, 21.9460, 3.1676

### Protanopia

20.1143, 22.1669, 5.6014

### Deuteranopia

22.1872, 21.9524, 3.0679



## Tritanopia

39.1119, 21.8487, 5.4046

# Trichromacy



## Original Color

38.8138, 21.9460, 3.1676

## Protanomaly

24.1414, 19.4601, 4.2340

## Deuteranomaly

26.1552, 19.9616, 2.7329

## Tritanomaly

38.9723, 21.8635, 4.4515

# Monochromacy



## Original Color

38.8138, 21.9460, 3.1676

## Achromatopsia

14.2537, 14.9960, 16.3306

## Achromatomaly

18.7695, 14.6976, 9.0554

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.8138, 21.9460, 3.1676 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, 54, 26)` looks like.

```
.text, #text, p{  
    color:rgb(244, 54, 26)  
}
```

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, 54, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(244, 54, 26) }
```

## Border

The CSS property to change the border of an element to XYZ 38.8138, 21.9460, 3.1676 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, 54, 26) }
```



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

```
.border{ border-color:rgb(244, 54, 26) }
```

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

Here you see how a box with a 4 pixel rgb(244, 54, 26) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(244, 54, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(244, 54, 26);  
box-shadow:4px 4px 4px 4px rgb(244, 54,  
26) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.8138, 21.9460, 3.1676 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(244, 54, 26) }
```

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

```
.background{ background-color: rgb(244, 54,  
26) }
```

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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