

# Converting Colors

XYZ(38.9135, 20.7021, 1.9449)

Have a look what the booklet for  
XYZ(38.9135, 20.7021, 1.9449)  
contains.

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# Color

**XYZ(38.7971, 20.6529,  
1.9416)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F71D00
RGB	247, 29, 0
RGB Percent	97%, 11%, 0%
CMY	0.0314, 0.8862, 1.0000
CMYK	0.00, 0.88, 1.00, 0.03
HSL	7°, 100%, 48%
HSV	7°, 100%, 97%
XYZ	38.7971, 20.6529, 1.9416
YIQ	90.8760, 139.2370, 37.1970

# Conversions

## Conversions Part 2

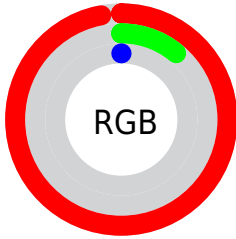
Format	Color
<a href="#">RYB</a>	<a href="#">247, 33, 0</a>
Decimal	<a href="#">16194816</a>
CIELab	<a href="#">52.57, 75.35, 65.97</a>
CIElCh	<a href="#">53, 100.148, 41.202</a>
Yxy	<a href="#">20.6529, 0.6320, 0.3364</a>
Android (android.graphics.Color)	<a href="#">4294384896 (0xFFFF71D00)</a>
YUV	<a href="#">90.8760, -44.8019, 136.9207</a>
Hunter-Lab	<a href="#">45.4455, 72.8571, 29.2787</a>

# Details

The XYZ color **38.7971, 20.6529, 1.9416** 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 **41.8521, 56.8428, 96.7607**, and the grayscale version is **9.9957, 10.5163, 11.4523**.

A 20% lighter version of the original color is **46.8797, 31.2763, 7.7038**, and **18.8224, 9.7033, 0.8809** is the 20% darker color. If you saturate the color by 10%, you get **38.7975, 20.6541, 1.9418**, and if you desaturate by 10%, it is **39.7060, 22.1955, 3.0944**.

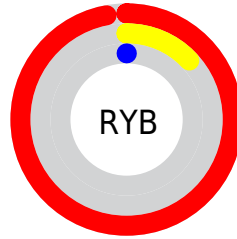
# Distribution



Red (97%)

Green (11%)

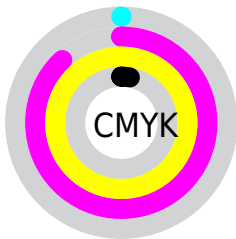
Blue (0%)



Red (97%)

Yellow (13%)

Blue (0%)

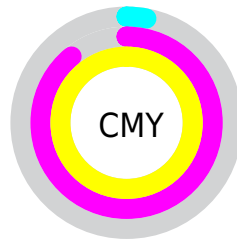


Cyan (0%)

Magenta (88%)

Yellow (100%)

Black (3%)



Cyan (3%)

Magenta (89%)


Yellow (100%)


# Brightness & Saturation Gradients


These gradients show how the XYZ color 38.7971, 20.6529, 1.9416 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 38.7971, 20.6529, 1.9416 by changing the saturation by 10% instead.





 38.7971, 20.6529,  
1.9416


 38.7971, 20.6529,  
1.9416


 332.2491,  
255.4281, 121.4633

 26.7819, 12.8705,  
0.5190


 72.6243, 44.5091,  
8.8805


 17.5453, 7.3394,  
0.0000


 95.1671, 61.3518,  
15.2989


 10.7217, 3.6753,  
0.0000


 121.9497, 81.9833,  
24.2414

 5.9459, 1.4936,  
0.0000

 153.3377,  
106.7881, 36.1265

 2.8526, 0.2842,  
0.0000

 189.6962,  
136.1506, 51.3726


 1.0763, 0.0000,  
0.0000

 231.3907,


 0.0051, 0.0000,


170.4552, 70.3985


0.0000


 278.7866,  
210.0862, 93.6225


 0.0000, 0.0000,  
0.0000


 38.7971, 20.6529,  
1.9416


 38.7971, 20.6529,  
1.9416


 38.7975, 20.6541,  
1.9418

 39.7060, 22.1955,  
3.0944

 41.2783, 24.7151,  
5.5453

 43.6372, 28.3504,  
9.6689

 46.8707, 33.2124,  
15.6951

 51.0548, 39.3982,  
23.8178

■ 56.2571, 46.9953,  
34.2068

■ 62.5389, 56.0837,  
47.0145

■ 69.9568, 66.7373,  
62.3800

■ 78.5631, 79.0250,  
80.4320

# Harmonies

## Analogous

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



46.4323, 20.6529, 13.1122



38.7971, 20.6529, 1.9416



26.7878, 20.6529, 0.0000

# Triad

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



38.7971, 20.6529, 1.9416



6.1511, 20.6529, 8.6415



23.7673, 20.6529, 138.0386

# Complementary

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



38.7971, 20.6529, 1.9416



41.8521, 56.8428, 96.7607

# 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.



13.8763, 20.6529, 131.5726



38.7971, 20.6529, 1.9416



5.8408, 20.6529, 35.5170

# Square

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



38.7971, 20.6529, 1.9416



9.2010, 20.6529, 1.0723



8.1185, 20.6529, 85.0466



35.9268, 20.6529, 98.7158



# Rectangle

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



38.7971, 20.6529, 1.9416



19.2144, 20.6529, 0.0000



8.1185, 20.6529, 85.0466



20.0515, 20.6529, 141.6781

# Sweetspot

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



38.7975, 20.6542, 1.9419



67.2008, 60.2437, 50.4695



51.0362, 24.8455, 68.5608



13.7426, 11.9691, 9.4890



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.



38.7975, 20.6542, 1.9419



41.7035, 22.1870, 2.0845



49.6372, 42.3335, 5.5551



16.6560, 16.7961, 17.1617



20.5707, 11.0270, 1.0442

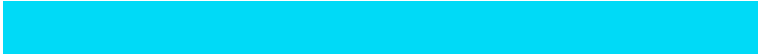


1.8578, 1.0688, 0.1084

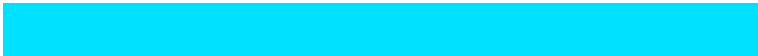


# Inverse Universe

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



41.8521, 56.8428, 96.7607



44.9836, 61.0871, 104.0279



20.8522, 14.8430, 89.7608



16.8207, 18.4057, 21.2087



22.2032, 30.2001, 51.1970



1.9975, 2.7465, 4.5151



# Previews

## White Background



This preview shows how the XYZ color 38.7971, 20.6529, 1.9416 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

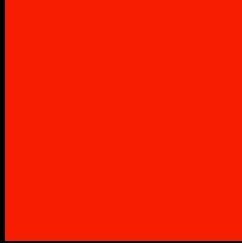
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 38.7971, 20.6529, 1.9416 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 38.7971, 20.6529, 1.9416**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.7971, 20.6529, 1.9416.



This preview shows how white text looks on a background with the XYZ color 38.7971, 20.6529,



# 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

38.7971, 20.6529, 1.9416

### Protanopia

18.8635, 20.7714, 4.3114

### Deuteranopia

21.0145, 20.8039, 2.9080



## Tritanopia

38.9084, 20.6588, 2.6463

# Trichromacy



## Original Color

38.7971, 20.6529, 1.9416

## Protanomaly

22.6897, 17.2360, 2.7928

## Deuteranomaly

24.8941, 17.8928, 2.1416

## Tritanomaly

38.8457, 20.6337, 2.3161

# Monochromacy



## Original Color

38.7971, 20.6529, 1.9416

## Achromatopsia

9.9438, 10.4616, 11.3927

## Achromatomaly

15.0436, 10.7356, 5.2823

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.7971, 20.6529, 1.9416 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(247, 29, 0)` looks like.

```
.text, #text, p{  
    color:rgb(247, 29, 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(247, 29, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 29, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 38.7971, 20.6529, 1.9416 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(247, 29, 0) }
```



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

```
.border{ border-color:rgb(247, 29, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(247, 29, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 29, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 29, 0);  
box-shadow:4px 4px 4px 4px rgb(247, 29, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 38.7971, 20.6529, 1.9416 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 29, 0) }
```

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

```
.background{ background-color: rgb(247, 29,  
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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