

# Converting Colors

XYZ(38.5378, 20.0377, 2.1531)

Have a look what the booklet for  
XYZ(38.5378, 20.0377, 2.1531)  
contains.

<b>XYZ(38.5378, 20.0377, 2.1531)</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(38.5378, 20.0377,  
2.1531)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F70B0B
RGB	247, 11, 11
RGB Percent	97%, 4%, 4%
CMY	0.0314, 0.9566, 0.9569
CMYK	0.00, 0.96, 0.96, 0.03
HSL	0°, 94%, 51%
HSV	0°, 96%, 97%
XYZ	38.5378, 20.0377, 2.1531
YIQ	81.5640, 140.6560, 50.0320

# Conversions

## Conversions Part 2

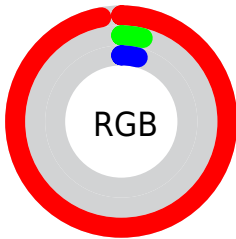
Format	Color
<a href="#">RYB</a>	<a href="#">247, 11, 11</a>
Decimal	<a href="#">16190219</a>
CIELab	<a href="#">51.88, 77.49, 62.95</a>
CIElCh	<a href="#">52, 99.835, 39.091</a>
Yxy	<a href="#">20.0377, 0.6346, 0.3300</a>
Android (android.graphics.Color)	<a href="#">4294380299 (0xFFFF70B0B)</a>
YUV	<a href="#">81.5640, -34.7881, 145.0874</a>
Hunter-Lab	<a href="#">44.7635, 75.3382, 28.4826</a>

# Details

The XYZ color **38.5378, 20.0377, 2.1531** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **50.1667, 73.2673, 99.4927**, and the grayscale version is **7.9877, 8.4037, 9.1517**.

A 20% lighter version of the original color is **46.4401, 30.1796, 8.2281**, and **18.8224, 9.7033, 0.8809** is the 20% darker color. If you saturate the color by 10%, you get **38.3581, 19.7754, 1.7953**, and if you desaturate by 10%, it is **39.2949, 21.1468, 3.6559**.

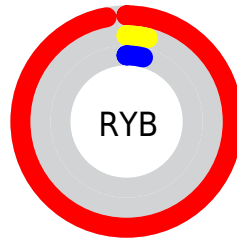
# Distribution



Red (97%)

Green (4%)

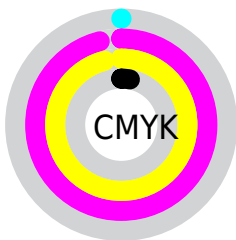
Blue (4%)



Red (97%)

Yellow (4%)

Blue (4%)

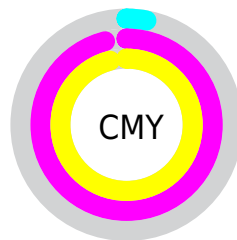


Cyan (0%)

Magenta (96%)

Yellow (96%)

Black (3%)



Cyan (3%)

Magenta (96%)


Yellow (96%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.5378, 20.0377, 2.1531 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 38.5378, 20.0377, 2.1531 by changing the saturation by 10% instead.





 38.5378, 20.0377,  
2.1531


 38.5378, 20.0377,  
2.1531


331.1625,  
252.1191, 124.7106


 26.5795, 12.4225,  
0.6471


 72.2303, 43.4804,  
9.4553

 17.3926, 7.0321,  
0.0000


 94.6952, 60.0766,  
16.1221

 10.6118, 3.4822,  
0.0000


 121.3929, 80.4353,  
25.3574

 5.8718, 1.3883,  
0.0000

 152.6889,  
104.9408, 37.5797

 2.8072, 0.2081,  
0.0000

 188.9485,  
133.9775, 53.2077


 1.0526, 0.0000,  
0.0000


 230.5371,


 0.0000, 0.0000,


167.9299, 72.6598


0.0000


 277.8200,  
207.1823, 96.3546


 38.5378, 20.0377,  
2.1531


 38.5378, 20.0377,  
2.1531


 38.3581, 19.7754,  
1.7953

 39.2949, 21.1468,  
3.6559

 40.8233, 23.3838,  
6.6926

 43.2611, 26.9514,  
11.5374

 46.7196, 32.0125,  
18.4117

 51.2942, 38.7068,  
27.5054

■ 57.0696, 47.1578,  
38.9866

■ 64.1221, 57.4773,  
53.0073

■ 72.5217, 69.7679,  
69.7067

■ 82.3333, 84.1244,  
89.2140

# Harmonies

## Analogous

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



45.5105, 20.0377, 14.1316



38.5378, 20.0377, 2.1531



26.8847, 20.0377, 0.0000

# Triad

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



38.5378, 20.0377, 2.1531



6.0216, 20.0377, 7.3419



22.2945, 20.0377, 136.4288

# Complementary

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



38.5378, 20.0377, 2.1531



50.1667, 73.2673, 99.4927

# 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.



12.9004, 20.0377, 126.5764



38.5378, 20.0377, 2.1531



5.5522, 20.0377, 31.8816

# Square

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



38.5378, 20.0377, 2.1531



9.2075, 20.0377, 0.8363



7.5673, 20.0377, 79.3556



34.1727, 20.0377, 100.1769



# Rectangle

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



38.5378, 20.0377, 2.1531



19.3563, 20.0377, 0.0000



7.5673, 20.0377, 79.3556



18.7375, 20.0377, 138.7988

# Sweetspot

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



38.5382, 20.0390, 2.1534



66.1238, 57.6747, 51.3902



55.2654, 26.7286, 90.2411



13.4682, 11.3424, 9.6378



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.



38.5382, 20.0390, 2.1534



41.2408, 21.2615, 1.9303



46.2680, 35.4986, 4.7300



16.4996, 16.4833, 17.1095



20.2867, 10.4590, 0.9496



1.7831, 0.9195, 0.0835



# Inverse Universe

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



50.1667, 73.2673, 99.4927



53.7874, 78.6949, 106.9625



24.7766, 22.4870, 91.0293



16.9964, 18.7570, 21.2672



26.4585, 38.7108, 52.6155



2.3256, 3.4026, 4.6244



# Previews

## White Background



This preview shows how the XYZ color 38.5378, 20.0377, 2.1531 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



## 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 38.5378, 20.0377, 2.1531**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.5378, 20.0377, 2.1531.



This preview shows how white text looks on a background with the XYZ color 38.5378, 20.0377,



# 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

38.5378, 20.0377, 2.1531

### Protanopia

18.4522, 20.3640, 4.5482

### Deuteranopia

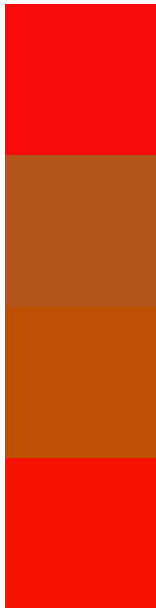
20.5015, 20.3618, 2.8497



## Tritanopia

38.3124, 20.2056, 1.8808

# Trichromacy



## Original Color

38.5378, 20.0377, 2.1531

## Protanomaly

21.9472, 15.9989, 2.9086

## Deuteranomaly

24.1258, 16.6932, 2.0654

## Tritanomaly

38.2608, 20.0673, 1.9717

# Monochromacy



## Original Color

38.5378, 20.0377, 2.1531

## Achromatopsia

8.0200, 8.4376, 9.1886

## Achromatomaly

13.2833, 8.8647, 4.7523

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.5378, 20.0377, 2.1531 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, 11, 11)` looks like.

```
.text, #text, p{  
    color:rgb(247, 11, 11)  
}
```

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, 11, 11) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(247, 11, 11) }
```

## Border

The CSS property to change the border of an element to XYZ 38.5378, 20.0377, 2.1531 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, 11, 11) }
```



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

```
.border{ border-color:rgb(247, 11, 11) }
```

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

Here you see how a box with a 4 pixel `rgb(247, 11, 11)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(247, 11, 11); -webkit-box-  
shadow:4px 4px 4px 4px rgb(247, 11, 11);  
box-shadow:4px 4px 4px 4px rgb(247, 11,  
11) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.5378, 20.0377, 2.1531 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(247, 11, 11) }
```

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

```
.background{ background-color: rgb(247, 11,  
11) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

**@ConvertingColor**