

# Converting Colors

XYZ(36.6183, 21.3910, 2.1989)

Have a look what the booklet for  
XYZ(36.6183, 21.3910, 2.1989)  
contains.

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# Color

**XYZ(36.5938, 21.3420,  
2.1907)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ED3D00
RGB	237, 61, 0
RGB Percent	93%, 24%, 0%
CMY	0.0706, 0.7607, 1.0000
CMYK	0.00, 0.74, 1.00, 0.07
HSL	15°, 100%, 46%
HSV	15°, 100%, 93%
XYZ	36.5938, 21.3420, 2.1907
YIQ	106.6700, 124.4770, 18.3410

# Conversions

## Conversions Part 2

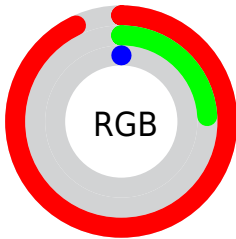
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">237, 82, 0</a>
Decimal	<a href="#">15547648</a>
CIELab	<a href="#">53.32, 64.94, 65.12</a>
CIElCh	<a href="#">53, 91.970, 45.081</a>
Yxy	<a href="#">21.3420, 0.6086, 0.3550</a>
Android (android.graphics.Color)	<a href="#">4293737728 (0xFFED3D00)</a>
YUV	<a href="#">106.6700, -52.5883, 114.2994</a>
Hunter-Lab	<a href="#">46.1974, 60.5476, 29.5266</a>

# Details

The XYZ color **36.5938, 21.3420, 2.1907** 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 **30.8090, 37.1605, 85.6690**, and the grayscale version is **14.0021, 14.7313, 16.0424**.

A 20% lighter version of the original color is **48.7988, 35.0299, 8.6043**, and **16.7946, 8.6579, 0.7860** is the 20% darker color. If you saturate the color by 10%, you get **36.5941, 21.3431, 2.1909**, and if you desaturate by 10%, it is **37.8547, 23.6053, 3.4091**.

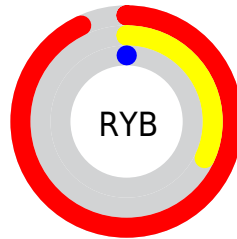
# Distribution



Red (93%)

Green (24%)

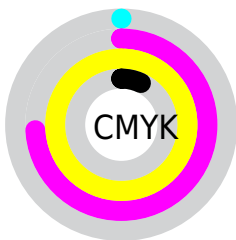
Blue (0%)



Red (93%)

Yellow (32%)

Blue (0%)

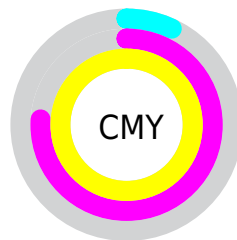


Cyan (0%)

Magenta (74%)

Yellow (100%)

Black (7%)



Cyan (7%)

Magenta (76%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.5938, 21.3420, 2.1907 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 36.5938, 21.3420, 2.1907 by changing the saturation by 10% instead.





 36.5938, 21.3420,  
2.1907


 36.5938, 21.3420,  
2.1907


322.9347,  
259.0905, 125.2710


 25.0654, 13.3742,  
0.6690


 69.2655, 45.6560,  
9.5559

 16.2548, 7.6867,  
0.0000


 91.1395, 62.7711,  
16.2656


 9.7966, 3.8952,  
0.0000


 117.1927, 83.7040,  
25.5514

 5.3255, 1.6151,  
0.0000

 147.7905,  
108.8392, 37.8318

 2.4762, 0.3677,  
0.0000

 183.2983,  
138.5610, 53.5255


 0.8833, 0.0000,  
0.0000


 224.0813,


 0.0000, 0.0000,


173.2539, 73.0509


0.0000


 270.5050,  
213.3023, 96.8266


 36.5938, 21.3420,  
2.1907


 36.5938, 21.3420,  
2.1907


 36.5941, 21.3431,  
2.1909

 37.8547, 23.6053,  
3.4091

 39.6482, 26.6172,  
5.7800

 42.0613, 30.4524,  
9.6395

 45.1526, 35.1696,  
15.1880

 48.9733, 40.8215,  
22.5946

■ 53.5691, 47.4567,  
32.0075

■ 58.9818, 55.1201,  
43.5598

■ 65.2500, 63.8536,  
57.3733

■ 72.4100, 73.6970,  
73.5603

# Harmonies

## Analogous

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



44.2782, 21.3420, 11.8887



36.5938, 21.3420, 2.1907



25.4996, 21.3420, 0.2143

# Triad

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



36.5938, 21.3420, 2.1907



7.0349, 21.3420, 11.9821



25.5590, 21.3420, 123.0495

# Complementary

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



36.5938, 21.3420, 2.1907



30.8090, 37.1605, 85.6690

# 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.



15.8345, 21.3420, 123.1681



36.5938, 21.3420, 2.1907



7.0417, 21.3420, 40.1754

# Square

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



36.5938, 21.3420, 2.1907



9.7023, 21.3420, 2.2129



9.7251, 21.3420, 85.6794



36.6490, 21.3420, 85.4250



# Rectangle

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



36.5938, 21.3420, 2.1907



18.6710, 21.3420, 0.0228



9.7251, 21.3420, 85.6794



21.9893, 21.3420, 128.0890

# Sweetspot

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



36.5943, 21.3433, 2.1910



69.5646, 64.9712, 51.2574



42.9356, 21.2088, 43.8187



14.2858, 13.0556, 9.6701



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.



36.5943, 21.3433, 2.1910



43.1676, 25.1151, 2.5725



50.7955, 49.7458, 6.9248



15.3807, 15.6843, 15.7355



20.0687, 11.8317, 1.2260



1.6514, 1.0802, 0.1215

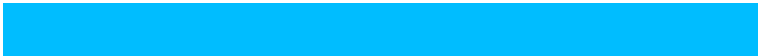


# Inverse Universe

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



30.8090, 37.1605, 85.6690



36.3239, 43.7679, 101.1413



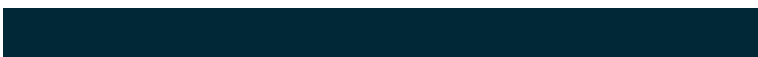
16.8629, 9.2683, 81.0203



15.1704, 16.4273, 19.2935



16.9319, 20.5108, 46.8095



1.4062, 1.7639, 3.7012



# Previews

## White Background



This preview shows how the XYZ color 36.5938, 21.3420, 2.1907 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 36.5938, 21.3420, 2.1907 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 36.5938, 21.3420, 2.1907**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.5938, 21.3420, 2.1907.



This preview shows how white text looks on a background with the XYZ color 36.5938, 21.3420,



# 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

36.5938, 21.3420, 2.1907

### Protanopia

19.4186, 21.4468, 4.1531

### Deuteranopia

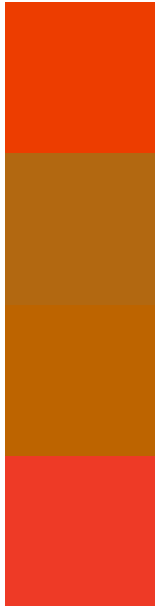
21.6575, 21.4961, 3.0077



## Tritanopia

37.5124, 21.4192, 6.2949

# Trichromacy



## Original Color

36.5938, 21.3420, 2.1907

## Protanomaly

23.4116, 19.4061, 3.0421

## Deuteranomaly

25.5434, 19.9332, 2.5012

## Tritanomaly

37.1228, 21.3432, 3.9968

# Monochromacy



## Original Color

36.5938, 21.3420, 2.1907

## Achromatopsia

13.9749, 14.7027, 16.0113

## Achromatomaly

18.0260, 14.5997, 7.3368

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.5938, 21.3420, 2.1907 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(237, 61, 0)` looks like.

```
.text, #text, p{  
    color:rgb(237, 61, 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(237, 61, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 61, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 36.5938, 21.3420, 2.1907 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(237, 61, 0) }
```



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

```
.border{ border-color:rgb(237, 61, 0) }
```

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

Here you see how a box with a 4 pixel rgb(237, 61, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 61, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 61, 0);  
box-shadow:4px 4px 4px 4px rgb(237, 61, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 36.5938, 21.3420, 2.1907 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 61, 0) }
```

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

```
.background{ background-color: rgb(237, 61,  
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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