

# Converting Colors

XYZ(36.2337, 21.8035, 2.2988)

Have a look what the booklet for  
XYZ(36.2337, 21.8035, 2.2988)  
contains.

<b>XYZ(36.3891, 21.9184, 2.3128)</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(36.3891, 21.9184,  
2.3128)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	EB4500
RGB	235, 69, 0
RGB Percent	92%, 27%, 0%
CMY	0.0784, 0.7294, 1.0000
CMYK	0.00, 0.71, 1.00, 0.08
HSL	18°, 100%, 46%
HSV	18°, 100%, 92%
XYZ	36.3891, 21.9184, 2.3128
YIQ	110.7680, 121.0850, 13.7330

# Conversions

## Conversions Part 2

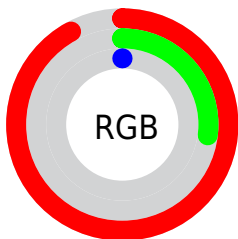
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	235, 98, 0
Decimal	15418624
CIE Lab	53.94, 61.60, 65.20
CIE LCh	54, 89.692, 46.628
Yxy	21.9184, 0.6003, 0.3616
Android (android.graphics.Color)	4293608704 (0xFFEB4500)
YUV	110.7680, -54.6086, 108.9515
Hunter-Lab	46.8171, 56.8112, 29.8430

# Details

The XYZ color **36.3891, 21.9184, 2.3128** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **28.6302, 33.2679, 83.5091**, and the grayscale version is **15.1723, 15.9624, 17.3831**.

A 20% lighter version of the original color is **49.5704, 36.5295, 8.9957**, and **16.5776, 8.5460, 0.7758** is the 20% darker color. If you saturate the color by 10%, you get **36.3893, 21.9193, 2.3129**, and if you desaturate by 10%, it is **37.7173, 24.3195, 3.5436**.

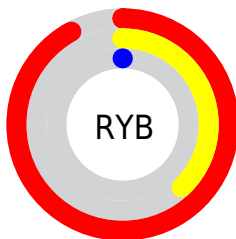
# Distribution



Red (92%)

Green (27%)

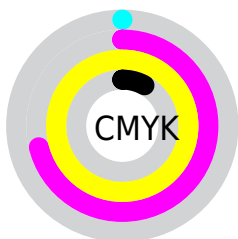
Blue (0%)



Red (92%)

Yellow (38%)

Blue (0%)

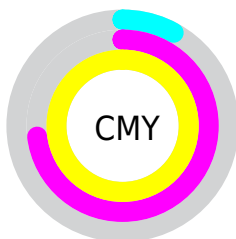


Cyan (0%)

Magenta (71%)

Yellow (100%)

Black (8%)



Cyan (8%)

Magenta (73%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.3891, 21.9184, 2.3128 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 36.3891, 21.9184, 2.3128 by changing the saturation by 10% instead.





 36.3891, 21.9184,  
2.3128


 36.3891, 21.9184,  
2.3128


322.0597,  
262.1198, 127.0591

 24.9064, 13.7970,  
0.7384


 68.9522, 46.6111,  
9.8796

 16.1357, 7.9796,  
0.0000


 90.7632, 63.9511,  
16.7262

 9.7117, 4.0819,  
0.0000


 116.7477, 85.1328,  
26.1730

 5.2690, 1.7195,  
0.0000

 147.2710,  
110.5406, 38.6386

 2.4423, 0.4362,  
0.0000

 182.6985,  
140.5587, 54.5414

 0.8663, 0.0000,  
0.0000


 223.3956,


 0.0000, 0.0000,


175.5717, 74.3001


0.0000


 269.7275,  
215.9640, 98.3331


 36.3891, 21.9184,  
2.3128


 36.3891, 21.9184,  
2.3128


 36.3893, 21.9193,  
2.3129

 37.7173, 24.3195,  
3.5436

 39.5459, 27.4114,  
5.8964

 41.9563, 31.2589,  
9.7005

 45.0023, 35.9123,  
15.1506

 48.7307, 41.4171,  
22.4115

■ 53.1836, 47.8149,  
31.6272

■ 58.3992, 55.1446,  
42.9272

■ 64.4130, 63.4424,  
56.4301

■ 71.2581, 72.7429,  
72.2450

# Harmonies

## Analogous

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



44.2117, 21.9184, 11.6402



36.3891, 21.9184, 2.3128



25.4360, 21.9184, 0.4013

# Triad

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



36.3891, 21.9184, 2.3128



7.4735, 21.9184, 13.5462



26.6194, 21.9184, 119.8979

# Complementary

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



36.3891, 21.9184, 2.3128



28.6302, 33.2679, 83.5091

# 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.



16.8214, 21.9184, 122.2092



36.3891, 21.9184, 2.3128



7.6124, 21.9184, 42.5772

# Square

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



36.3891, 21.9184, 2.3128



10.0288, 21.9184, 2.7941



10.4946, 21.9184, 87.2769



37.4831, 21.9184, 82.2975



# Rectangle

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



36.3891, 21.9184, 2.3128



18.7596, 21.9184, 0.2732



10.4946, 21.9184, 87.2769



23.0534, 21.9184, 125.4701

# Sweetspot

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



36.3896, 21.9197, 2.3131



70.2045, 66.2512, 51.4707



41.3676, 20.5049, 39.0276



14.4342, 13.3522, 9.7195



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.



36.3896, 21.9197, 2.3131



43.7480, 26.2761, 2.7660



51.4186, 51.9779, 7.3228



15.4259, 15.7748, 15.7505



20.3485, 12.3912, 1.3192



1.6785, 1.1344, 0.1305

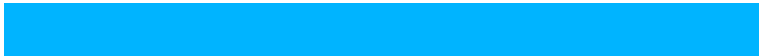


# Inverse Universe

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



28.6302, 33.2679, 83.5091



34.3952, 39.9104, 100.4984



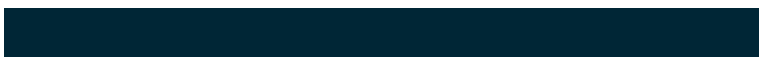
16.1757, 8.3588, 79.3576



15.1225, 16.3314, 19.2775



16.0497, 18.7464, 46.5155



1.3429, 1.6372, 3.6801



# Previews

## White Background



This preview shows how the XYZ color 36.3891, 21.9184, 2.3128 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 36.3891, 21.9184, 2.3128 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 36.3891, 21.9184, 2.3128**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.3891, 21.9184, 2.3128.



This preview shows how white text looks on a background with the XYZ color 36.3891, 21.9184,



# 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

36.3891, 21.9184, 2.3128

### Protanopia

20.0231, 22.1508, 4.1975

### Deuteranopia

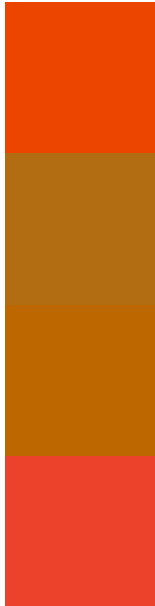
22.1872, 21.9524, 3.0679



## Tritanopia

37.4386, 21.9049, 7.5650

# Trichromacy



## Original Color

36.3891, 21.9184, 2.3128

## Protanomaly

23.8238, 20.2306, 3.1796

## Deuteranomaly

25.8365, 20.5193, 2.5989

## Tritanomaly

36.9763, 21.9037, 4.5645

# Monochromacy



## Original Color

36.3891, 21.9184, 2.3128

## Achromatopsia

15.1092, 15.8961, 17.3108

## Achromatomaly

19.0305, 15.8886, 8.0250

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.3891, 21.9184, 2.3128 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(235, 69, 0)` looks like.

```
.text, #text, p{  
    color:rgb(235, 69, 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(235, 69, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 69, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 36.3891, 21.9184, 2.3128 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(235, 69, 0) }
```



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

```
.border{ border-color:rgb(235, 69, 0) }
```

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

Here you see how a box with a 4 pixel rgb(235, 69, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 69, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(235, 69, 0);  
box-shadow:4px 4px 4px 4px rgb(235, 69, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 36.3891, 21.9184, 2.3128 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 69, 0) }
```

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

```
.background{ background-color: rgb(235, 69,  
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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