

# Converting Colors

XYZ(37.1144, 22.0086, 2.8466)

Have a look what the booklet for  
XYZ(37.1144, 22.0086, 2.8466)  
contains.

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# Color

**XYZ(36.9824, 21.9446,  
2.8588)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ED4212
RGB	237, 66, 18
RGB Percent	93%, 26%, 7%
CMY	0.0706, 0.7411, 0.9294
CMYK	0.00, 0.72, 0.92, 0.07
HSL	13°, 86%, 50%
HSV	13°, 92%, 93%
XYZ	36.9824, 21.9446, 2.8588
YIQ	111.6570, 117.3240, 21.3240

# Conversions

## Conversions Part 2

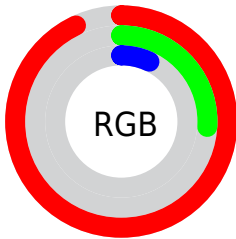
Format	Color
<a href="#">RYB</a>	<a href="#">237, 79, 18</a>
Decimal	<a href="#">15548946</a>
CIELab	<a href="#">53.97, 63.44, 61.19</a>
CIElCh	<a href="#">54, 88.140, 43.967</a>
Yxy	<a href="#">21.9446, 0.5986, 0.3552</a>
Android (android.graphics.Color)	<a href="#">4293739026</a> (0xFFED4212)
YUV	<a href="#">111.6570, -46.1729, 109.9258</a>
Hunter-Lab	<a href="#">46.8451, 58.9401, 29.1733</a>

# Details

The XYZ color **36.9824, 21.9446, 2.8588** 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 **33.7305, 42.6332, 86.5713**, and the grayscale version is **15.4089, 16.2114, 17.6542**.

A 20% lighter version of the original color is **49.5850, 36.1302, 10.3217**, and **17.0133, 8.7707, 0.7962** is the 20% darker color. If you saturate the color by 10%, you get **36.1508, 20.4565, 2.0431**, and if you desaturate by 10%, it is **38.5479, 24.5906, 4.8774**.

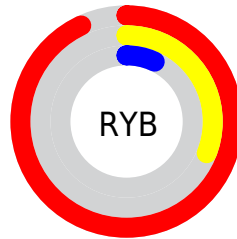
# Distribution



Red (93%)

Green (26%)

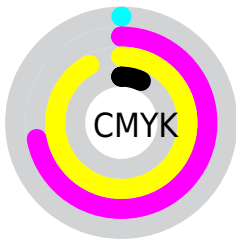
Blue (7%)



Red (93%)

Yellow (31%)

Blue (7%)

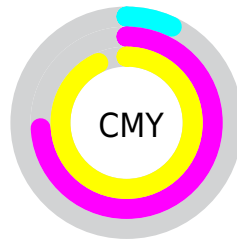


Cyan (0%)

Magenta (72%)

Yellow (92%)

Black (7%)



Cyan (7%)

Magenta (74%)


Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.9824, 21.9446, 2.8588 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 36.9824, 21.9446, 2.8588 by changing the saturation by 10% instead.




 36.9824, 21.9446,  
2.8588


 36.9824, 21.9446,  
2.8588


324.5912,  
262.2568, 134.5414


 25.3675, 13.8162,  
1.0230


 69.8597, 46.6544,  
11.2780

 16.4812, 7.9929,  
0.0000


 91.8528, 64.0046,  
18.6984

 9.9583, 4.0904,  
0.0000


 118.0360, 85.1975,  
28.8175

 5.4334, 1.7243,  
0.0000

 148.7747,  
110.6176, 42.0538

 2.5411, 0.4393,  
0.0000

 184.4342,  
140.6491, 58.8258


 0.9160, 0.0000,  
0.0000


 225.3799,


 0.0000, 0.0000,


175.6766, 79.5520


0.0000


 271.9771,  
216.0844, 104.6511


 36.9824, 21.9446,  
2.8588


 36.9824, 21.9446,  
2.8588


 36.1508, 20.4565,  
2.0431

 38.5479, 24.5906,  
4.8774

 40.7429, 28.0953,  
8.3378

 43.6335, 32.5301,  
13.4528

 47.2766, 37.9569,  
20.3989

 51.7225, 44.4323,  
29.3301

■ 57.0171, 52.0086,  
40.3837

■ 63.2028, 60.7344,  
53.6849

■ 70.3191, 70.6553,  
69.3492

■ 78.4029, 81.8144,  
87.4839

# Harmonies

## Analogous

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



44.1133, 21.9446, 13.3509



36.9824, 21.9446, 2.8588



26.3270, 21.9446, 0.5828

# Triad

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



36.9824, 21.9446, 2.8588



7.7563, 21.9446, 12.1517



25.5904, 21.9446, 119.2726

# Complementary

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



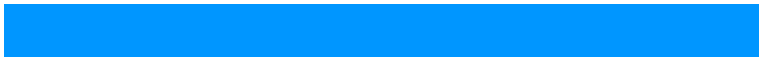
36.9824, 21.9446, 2.8588



33.7305, 42.6332, 86.5713

# 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.



16.2037, 21.9446, 117.8512



36.9824, 21.9446, 2.8588



7.6684, 21.9446, 38.8956

# Square

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



36.9824, 21.9446, 2.8588



10.5635, 21.9446, 2.5468



10.2701, 21.9446, 81.8160



36.3038, 21.9446, 84.8862



# Rectangle

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



36.9824, 21.9446, 2.8588



19.6178, 21.9446, 0.3579



10.2701, 21.9446, 81.8160



22.1487, 21.9446, 123.4774

# Sweetspot

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



36.9829, 21.9459, 2.8591



70.3315, 65.6673, 54.0961



44.3862, 22.1351, 50.3906



14.4051, 13.1369, 10.1948



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.



36.9829, 21.9459, 2.8591



42.6495, 24.0790, 2.3998



50.3541, 48.6885, 7.3162



15.3332, 15.5894, 15.7196



19.8162, 11.3267, 1.1418



1.6256, 1.0286, 0.1129



# Inverse Universe

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



33.7305, 42.6332, 86.5713



38.4956, 48.1113, 101.8652



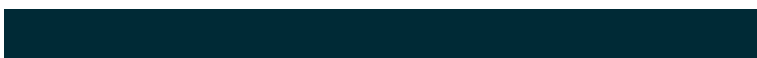
18.4078, 11.9878, 81.4637



15.2212, 16.5289, 19.3104



17.9235, 22.4939, 47.1401



1.4766, 1.9046, 3.7247



# Previews

## White Background



This preview shows how the XYZ color 36.9824, 21.9446, 2.8588 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 36.9824, 21.9446, 2.8588 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 36.9824, 21.9446, 2.8588**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.9824, 21.9446, 2.8588.



This preview shows how white text looks on a background with the XYZ color 36.9824, 21.9446,

2.8588.

# 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

36.9824, 21.9446, 2.8588

### Protanopia

19.9484, 22.1005, 4.7278

### Deuteranopia

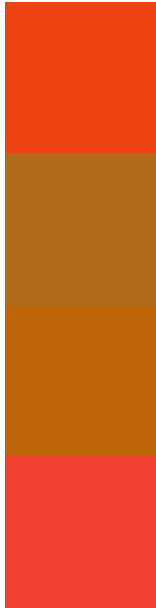
22.1872, 21.9524, 3.0679



## Tritanopia

37.9079, 21.9926, 7.0975

# Trichromacy



## Original Color

36.9824, 21.9446, 2.8588

## Protanomaly

23.8274, 20.0642, 3.7155

## Deuteranomaly

26.0249, 20.4652, 2.7795

## Tritanomaly

37.5505, 21.9374, 4.9445

# Monochromacy



## Original Color

36.9824, 21.9446, 2.8588

## Achromatopsia

15.4009, 16.2029, 17.6450

## Achromatomaly

19.3720, 15.9026, 9.2562

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.9824, 21.9446, 2.8588 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, 66, 18)` looks like.

```
.text, #text, p{  
    color:rgb(237, 66, 18)  
}
```

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, 66, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 66, 18) }
```

## Border

The CSS property to change the border of an element to XYZ 36.9824, 21.9446, 2.8588 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, 66, 18) }
```



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

```
.border{ border-color:rgb(237, 66, 18) }
```

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

Here you see how a box with a 4 pixel rgb(237, 66, 18) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 66, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 66, 18);  
box-shadow:4px 4px 4px 4px rgb(237, 66,  
18) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.9824, 21.9446, 2.8588 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 66, 18) }
```

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

```
.background{ background-color: rgb(237, 66,  
18) }
```

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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