

# Converting Colors

XYZ(36.6709, 27.4510, 4.6841)

Have a look what the booklet for  
XYZ(36.6709, 27.4510, 4.6841)  
contains.

<b>XYZ(36.7820, 27.5346, 4.6724)</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(36.7820, 27.5346,  
4.6724)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E0701F
RGB	224, 112, 31
RGB Percent	88%, 44%, 12%
CMY	0.1216, 0.5608, 0.8784
CMYK	0.00, 0.50, 0.86, 0.12
HSL	25°, 76%, 50%
HSV	25°, 86%, 88%
XYZ	36.7820, 27.5346, 4.6724
YIQ	136.2540, 92.7530, -1.4470

# Conversions

## Conversions Part 2

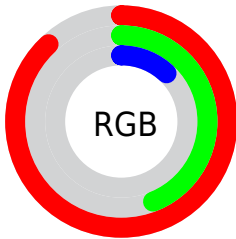
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	224, 171, 31
Decimal	14708767
CIE <sub>Lab</sub>	59.47, 39.08, 60.09
CIE <sub>LCh</sub>	59, 71.683, 56.963
Yxy	27.5346, 0.5332, 0.3991
Android (android.graphics.Color)	4292898847 (0xFFE0701F)
YUV	136.2540, -51.8902, 76.9532
Hunter-Lab	52.4734, 33.2937, 31.4520

# Details

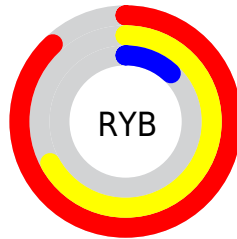
The XYZ color **36.7820, 27.5346, 4.6724** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed orange. A complement of this color would be **23.8413, 25.3165, 74.1505**, and the grayscale version is **23.6623, 24.8946, 27.1102**.

A 20% lighter version of the original color is **56.2954, 48.8104, 14.8418**, and **16.5690, 11.0189, 1.2536** is the 20% darker color. If you saturate the color by 10%, you get **35.2501, 24.7915, 3.1744**, and if you desaturate by 10%, it is **38.7265, 30.7766, 7.3163**.

# Distribution



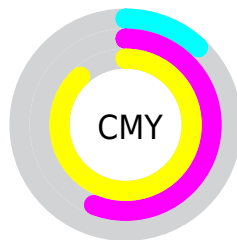
- Red (88%)
- Green (44%)
- Blue (12%)



- Red (88%)
- Yellow (67%)
- Blue (12%)



- Cyan (0%)
- Magenta (50%)
- Yellow (86%)
- Black (12%)




- Cyan (12%)
- Magenta (56%)
- Yellow (88%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.7820, 27.5346, 4.6724 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 36.7820, 27.5346, 4.6724 by changing the saturation by 10% instead.





 36.7820, 27.5346,  
4.6724


 36.7820, 27.5346,  
4.6724


323.7377,  
290.2363, 155.4292


 25.2116, 17.9751,  
2.0010

 69.5534, 55.7405,  
15.5330

 16.3644, 10.9321,  
0.5559

 91.4851, 75.1558,  
24.5593

 9.8748, 6.0212,  
0.0000


 117.6014, 98.6251,  
36.5410

 5.3777, 2.8580,  
0.0000

 148.2675,  
126.5329, 51.8966

 2.5075, 1.0580,  
0.0000

 183.8488,  
159.2635, 71.0447

 0.8991, 0.0000,  
0.0000

 224.7107,

 0.0000, 0.0000,

197.2013, 94.4038

0.0000

271.2186,  
240.7308, 122.3924

■ 36.7820, 27.5346,  
4.6724

■ 36.7820, 27.5346,  
4.6724

■ 35.2501, 24.7915,  
3.1744

■ 38.7265, 30.7766,  
7.3163

■ 34.7445, 23.8556,  
2.7734

■ 41.1270, 34.5443,  
11.3017

■ 44.0214, 38.8668,  
16.7874

■ 47.4426, 43.7690,  
23.9094

■ 51.4202, 49.2741,  
32.7884

■ 55.9813, 55.4040,  
43.5332

■ 61.1508, 62.1790,  
56.2442

■ 66.9525, 69.6187,  
71.0141

■ 73.4084, 77.7416,  
87.9299

# Harmonies

## Analogous

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



44.8192, 27.5346, 12.6581



36.7820, 27.5346, 4.6724



27.0981, 27.5346, 2.7292

# Triad

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



36.7820, 27.5346, 4.6724



12.4165, 27.5346, 27.4313



34.8258, 27.5346, 99.3817

# Complementary

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



36.7820, 27.5346, 4.6724



23.8413, 25.3165, 74.1505

# 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.



25.2649, 27.5346, 111.6768



36.7820, 27.5346, 4.6724



13.5804, 27.5346, 58.5277

# Square

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



36.7820, 27.5346, 4.6724



14.1809, 27.5346, 10.2678



17.8261, 27.5346, 93.6592



43.5199, 27.5346, 65.9208



# Rectangle

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



36.7820, 27.5346, 4.6724



21.4405, 27.5346, 3.1735



17.8261, 27.5346, 93.6592



31.5503, 27.5346, 106.7381

# Sweetspot

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



36.7826, 27.5361, 4.6729



75.0840, 74.3035, 58.3582



36.2326, 18.8282, 27.9438



15.5948, 15.2693, 11.3524



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.



36.7826, 27.5361, 4.6729



46.5007, 31.7814, 3.6836



53.5231, 61.0171, 10.2530



14.1776, 14.6412, 14.3856



20.3320, 14.1018, 1.6503



1.4964, 1.1516, 0.1434

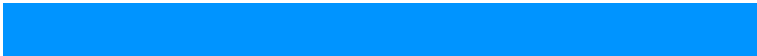


# Inverse Universe

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



23.8413, 25.3165, 74.1505



28.6354, 28.3908, 98.5785



15.0396, 7.7130, 71.2166



13.6094, 14.5579, 17.4803



12.5928, 12.6551, 42.8273



0.9608, 1.0531, 2.9979



# Previews

## White Background



This preview shows how the XYZ color 36.7820, 27.5346, 4.6724 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 36.7820, 27.5346, 4.6724 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 36.7820, 27.5346, 4.6724**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.7820, 27.5346, 4.6724.



This preview shows how white text looks on a background with the XYZ color 36.7820, 27.5346,



# 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

36.7820, 27.5346, 4.6724

### Protanopia

25.0374, 27.6701, 5.9407

### Deuteranopia

28.1818, 27.5879, 4.2916



## Tritanopia

39.6548, 27.6039, 18.5673

# Trichromacy



## Original Color

36.7820, 27.5346, 4.6724

## Protanomaly

28.3369, 26.8203, 5.3524

## Deuteranomaly

30.7507, 27.1032, 4.3202

## Tritanomaly

38.2879, 27.5184, 11.4772

# Monochromacy



## Original Color

36.7820, 27.5346, 4.6724

## Achromatopsia

23.4014, 24.6201, 26.8113

## Achromatomaly

25.9424, 24.3854, 14.8948

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.7820, 27.5346, 4.6724 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(224, 112, 31)` looks like.

```
.text, #text, p{  
    color:rgb(224, 112, 31)  
}
```

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(224, 112, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 112, 31) }
```

## Border

The CSS property to change the border of an element to XYZ 36.7820, 27.5346, 4.6724 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(224, 112, 31) }
```



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

```
.border{ border-color:rgb(224, 112, 31) }
```

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

Here you see how a box with a 4 pixel `rgb(224, 112, 31)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 112, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 112, 31);  
box-shadow:4px 4px 4px 4px rgb(224, 112,  
31) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.7820, 27.5346, 4.6724 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 112, 31) }
```

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

```
.background{ background-color: rgb(224,  
112, 31) }
```

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