

# Converting Colors

XYZ(37.4683, 27.9339, 3.4170)

Have a look what the booklet for  
XYZ(37.4683, 27.9339, 3.4170)  
contains.

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# Color

**XYZ(37.4727, 27.9192,  
3.4139)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E37000
RGB	227, 112, 0
RGB Percent	89%, 44%, 0%
CMY	0.1098, 0.5608, 1.0000
CMYK	0.00, 0.51, 1.00, 0.11
HSL	30°, 100%, 45%
HSV	30°, 100%, 89%
XYZ	37.4727, 27.9192, 3.4139
YIQ	133.6170, 104.4920, -10.4520

# Conversions

## Conversions Part 2

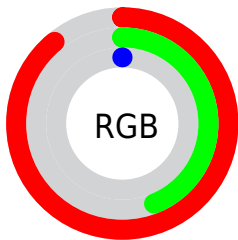
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	227, 221, 0
Decimal	14905344
CIE Lab	59.82, 39.84, 67.65
CIE LCh	60, 78.510, 59.507
Yxy	27.9192, 0.5446, 0.4058
Android (android.graphics.Color)	4293095424 (0xFFE37000)
YUV	133.6170, -65.8732, 81.8969
Hunter-Lab	52.8386, 34.1231, 33.1563

# Details

The XYZ color **37.4727, 27.9192, 3.4139** 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 **19.9957, 17.8072, 75.0557**, and the grayscale version is **22.7277, 23.9113, 26.0394**.

A 20% lighter version of the original color is **55.7385, 48.5876, 11.9095**, and **16.9786, 11.2300, 1.2727** is the 20% darker color. If you saturate the color by 10%, you get **37.4729, 27.9200, 3.4141**, and if you desaturate by 10%, it is **38.9760, 30.6835, 4.6635**.

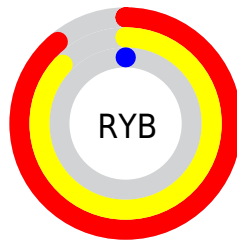
# Distribution



Red (89%)

Green (44%)

Blue (0%)



Red (89%)

Yellow (87%)

Blue (0%)

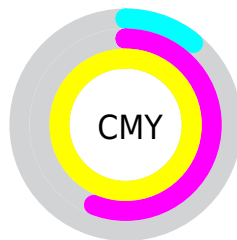


Cyan (0%)

Magenta (51%)

Yellow (100%)

Black (11%)



Cyan (11%)

Magenta (56%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.4727, 27.9192, 3.4139 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 37.4727, 27.9192, 3.4139 by changing the saturation by 10% instead.





 37.4727, 27.9192,  
3.4139


 37.4727, 27.9192,  
3.4139


326.6727,  
292.0806, 141.4693

 25.7490, 18.2648,  
1.3097


 70.6083, 56.3554,  
12.6337


 16.7677, 11.1402,  
0.0697


 92.7510, 75.9060,  
20.5864

 10.1633, 6.1612,  
0.0000


 119.0974, 99.5240,  
31.3257

 5.5704, 2.9434,  
0.0000

 150.0129,  
127.5940, 45.2700

 2.6238, 1.1022,  
0.0000

 185.8628,  
160.5002, 62.8380


 0.9581, 0.0000,  
0.0000

 227.0125,


 0.0000, 0.0000,


198.6272, 84.4482


0.0000


 273.8273,  
242.3592, 110.5191


 37.4727, 27.9192,  
3.4139


 37.4727, 27.9192,  
3.4139

 37.4729, 27.9200,  
3.4141

 38.9760, 30.6835,  
4.6635

 40.8247, 33.8531,  
6.9065

 43.0820, 37.4635,  
10.4464

 45.7861, 41.5383,  
15.4583

 48.9696, 46.0986,  
22.0896

■ 52.6617, 51.1638,  
30.4695

■ 56.8886, 56.7517,  
40.7140

■ 61.6748, 62.8793,  
52.9291

■ 67.0429, 69.5626,  
67.2127

# Harmonies

## Analogous

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



46.9042, 27.9192, 10.6151



37.4727, 27.9192, 3.4139



26.7014, 27.9192, 1.9370

# Triad

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



37.4727, 27.9192, 3.4139



11.6380, 27.9192, 29.9300



37.1147, 27.9192, 107.3287

# Complementary

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



37.4727, 27.9192, 3.4139



19.9957, 17.8072, 75.0557

# 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.



26.3720, 27.9192, 124.6528



37.4727, 27.9192, 3.4139



13.1290, 27.9192, 66.1442

# Square

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



37.4727, 27.9192, 3.4139



13.2323, 27.9192, 10.2151



17.9663, 27.9192, 106.2386



46.6638, 27.9192, 67.5257



# Rectangle

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



37.4727, 27.9192, 3.4139



20.6487, 27.9192, 2.4827



17.9663, 27.9192, 106.2386



33.4487, 27.9192, 116.7758

# Sweetspot

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



37.4733, 27.9207, 3.4144



73.9451, 73.7323, 52.7176



34.9061, 17.6220, 18.4796



15.3101, 15.1042, 10.0115



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.



37.4733, 27.9207, 3.4144



48.6778, 36.1357, 4.4093



58.1237, 69.2216, 10.2979



14.9613, 15.5365, 15.1148



21.9708, 16.5158, 2.0299



1.7164, 1.4061, 0.1809



# Inverse Universe

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



19.9957, 17.8072, 75.0557



25.9240, 22.9680, 97.6747



13.9062, 5.6283, 73.0259



14.1833, 15.0880, 18.3091



11.7784, 10.6189, 43.8120



0.9633, 0.9706, 3.2685



# Previews

## White Background



This preview shows how the XYZ color 37.4727, 27.9192, 3.4139 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 37.4727, 27.9192, 3.4139 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 37.4727, 27.9192, 3.4139**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.4727, 27.9192, 3.4139.



This preview shows how white text looks on a background with the XYZ color 37.4727, 27.9192,



# 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

37.4727, 27.9192, 3.4139

### Protanopia

25.3559, 28.0878, 4.7469

### Tritanopia

40.4527, 27.8713, 18.2865

# Trichromacy



## Original Color

37.4727, 27.9192, 3.4139

## Protanomaly

28.7099, 27.2432, 4.1261

## Tritanomaly

38.7081, 27.6283, 9.2539

# Monochromacy



## Original Color

37.4727, 27.9192, 3.4139

## Achromatopsia

22.6597, 23.8398, 25.9615

## Achromatomaly

25.2490, 23.9024, 11.8772

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.4727, 27.9192, 3.4139 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(227, 112, 0)` looks like.

```
.text, #text, p{  
    color:rgb(227, 112, 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(227, 112, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 112, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 37.4727, 27.9192, 3.4139 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(227, 112, 0) }
```

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

```
.border{ border-color:rgb(227, 112, 0) }
```

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

Here you see how a box with a 4 pixel rgb(227, 112, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 112, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 112, 0);  
box-shadow:4px 4px 4px 4px rgb(227, 112,  
0) }
```



# Background

The CSS property to change the background color of an element to XYZ 37.4727, 27.9192, 3.4139 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 112, 0) }
```

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

```
.background{ background-color: rgb(227,  
112, 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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