

# Converting Colors

XYZ(42.8364, 27.6879, 4.3136)

Have a look what the booklet for  
XYZ(42.8364, 27.6879, 4.3136)  
contains.

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# Color

**XYZ(42.7729, 27.7045,  
4.3214)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F85C1E
RGB	248, 92, 30
RGB Percent	97%, 36%, 12%
CMY	0.0275, 0.6392, 0.8823
CMYK	0.00, 0.63, 0.88, 0.03
HSL	17°, 94%, 55%
HSV	17°, 88%, 97%
XYZ	42.7729, 27.7045, 4.3214
YIQ	131.5760, 112.8780, 13.7900

# Conversions

## Conversions Part 2

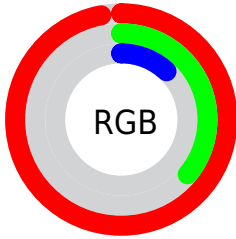
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	248, 117, 30
Decimal	16276510
CIE <sub>Lab</sub>	59.62, 57.21, 62.16
CIE <sub>LCh</sub>	60, 84.478, 47.375
Yxy	27.7045, 0.5718, 0.3704
Android (android.graphics.Color)	4294466590 (0xFFFF85C1E)
YUV	131.5760, -50.0770, 102.1038
Hunter-Lab	52.6351, 52.9433, 31.9768

# Details

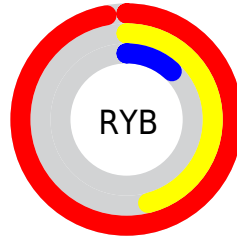
The XYZ color **42.7729, 27.7045, 4.3214** is a dark color, and the websafe version is hex **FF6633**. The color can be described as dark washed red. A complement of this color would be **35.0357, 42.1674, 95.0988**, and the grayscale version is **21.9268, 23.0687, 25.1218**.

A 20% lighter version of the original color is **53.3529, 43.0490, 13.4799**, and **20.0184, 11.0473, 1.0772** is the 20% darker color. If you saturate the color by 10%, you get **41.2061, 24.9007, 2.7839**, and if you desaturate by 10%, it is **44.9456, 31.3295, 7.2679**.

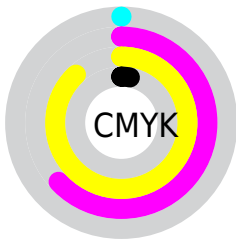
# Distribution



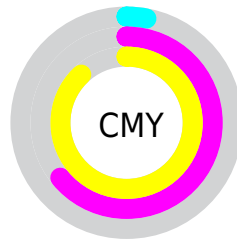
- Red (97%)
- Green (36%)
- Blue (12%)



- Red (97%)
- Yellow (46%)
- Blue (12%)



- Cyan (0%)
- Magenta (63%)
- Yellow (88%)
- Black (3%)




- Cyan (3%)
- Magenta (64%)
- Yellow (88%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.7729, 27.7045, 4.3214 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 42.7729, 27.7045, 4.3214 by changing the saturation by 10% instead.





 42.7729, 27.7045,  
4.3214

 42.7729, 27.7045,  
4.3214


348.6144,  
291.0522, 151.7334


 29.9007, 18.1030,  
1.8033


 78.6259, 56.0123,  
14.7445


 19.9109, 11.0240,  
0.4301


 102.3374, 75.4874,  
23.4865

 12.4382, 6.0830,  
0.0000


 130.3928, 99.0226,  
35.1402

 7.1172, 2.8956,  
0.0000

 163.1573,  
127.0021, 50.1242

 3.5825, 1.0775,  
0.0000

 200.9964,  
159.8105, 68.8570

 1.4687, 0.0000,  
0.0000

 244.2753,

 0.3044, 0.0000,

197.8320, 91.7571

0.0000

293.3595,  
241.4511, 119.2430

0.0000, 0.0000,  
0.0000

42.7729, 27.7045,  
4.3214

42.7729, 27.7045,  
4.3214

41.2061, 24.9007,  
2.7839

44.9456, 31.3295,  
7.2679

40.9353, 24.4047,  
2.5531

47.7987, 35.8383,  
11.9107

51.3935, 41.2904,  
18.4651

55.7829, 47.7386,  
27.1137

61.0148, 55.2311,  
38.0174

67.1327, 63.8130,  
51.3216

74.1773, 73.5266,  
67.1590

82.1865, 84.4120,  
85.6528

91.1959, 96.5071,  
106.9180

# Harmonies

## Analogous

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



51.1036, 27.7045, 15.8246



42.7729, 27.7045, 4.3214



31.0654, 27.7045, 1.5000

# Triad

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



42.7729, 27.7045, 4.3214



10.9802, 27.7045, 19.0791



32.9319, 27.7045, 127.8627

# Complementary

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



42.7729, 27.7045, 4.3214



35.0357, 42.1674, 95.0988

# 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.



22.1061, 27.7045, 131.1859



42.7729, 27.7045, 4.3214



11.2272, 27.7045, 51.2827

# Square

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



42.7729, 27.7045, 4.3214



13.9577, 27.7045, 5.3323



14.7585, 27.7045, 97.1485



44.4527, 27.7045, 89.8444



# Rectangle

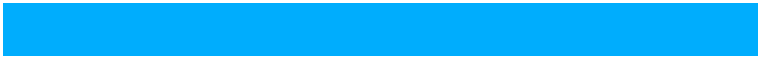
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



42.7729, 27.7045, 4.3214



23.7905, 27.7045, 1.3774



14.7585, 27.7045, 97.1485



29.0489, 27.7045, 133.6861

# Sweetspot

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



42.7735, 27.7061, 4.3218



72.8412, 69.8179, 57.6106



48.0632, 24.4401, 48.7687



15.0700, 14.2197, 11.1775



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.



42.7735, 27.7061, 4.3218



43.5920, 25.9640, 2.7140



59.7777, 61.7145, 9.9899



17.6466, 18.0291, 18.0123



22.2160, 13.3886, 1.4134



2.1436, 1.4121, 0.1596



# Inverse Universe

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



35.0357, 42.1674, 95.0988



34.8737, 40.8674, 100.6579



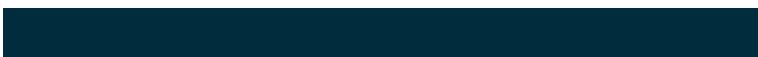
20.1490, 12.3940, 90.1366



17.3242, 18.7252, 22.0865



17.8203, 20.9961, 51.0870



1.7407, 2.1250, 4.7616



# Previews

## White Background



This preview shows how the XYZ color 42.7729, 27.7045, 4.3214 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 42.7729, 27.7045, 4.3214 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 42.7729, 27.7045, 4.3214**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.7729, 27.7045, 4.3214.



This preview shows how white text looks on a background with the XYZ color 42.7729, 27.7045,



# 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

42.7729, 27.7045, 4.3214

### Protanopia

25.1072, 27.6980, 6.3085

### Deuteranopia

28.2371, 27.8364, 3.8847



## Tritanopia

44.6405, 27.7349, 12.8981

# Trichromacy



## Original Color

42.7729, 27.7045, 4.3214

## Protanomaly

29.6758, 26.1446, 5.3161

## Deuteranomaly

32.3514, 26.8207, 3.7884

## Tritanomaly

43.6308, 27.5489, 8.6481

# Monochromacy



## Original Color

42.7729, 27.7045, 4.3214

## Achromatopsia

21.9318, 23.0740, 25.1276

## Achromatomaly

25.8824, 22.5475, 13.8144

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.7729, 27.7045, 4.3214 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(248, 92, 30)` looks like.

```
.text, #text, p{  
    color:rgb(248, 92, 30)  
}
```

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(248, 92, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(248, 92, 30) }
```

## Border

The CSS property to change the border of an element to XYZ 42.7729, 27.7045, 4.3214 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(248, 92, 30) }
```



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

```
.border{ border-color:rgb(248, 92, 30) }
```

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

Here you see how a box with a 4 pixel rgb(248, 92, 30) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(248, 92, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(248, 92, 30);  
box-shadow:4px 4px 4px 4px rgb(248, 92,  
30) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.7729, 27.7045, 4.3214 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(248, 92, 30) }
```

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

```
.background{ background-color: rgb(248, 92,  
30) }
```

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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