

# Converting Colors

XYZ(42.4148, 29.1046, 8.2696)

Have a look what the booklet for  
XYZ(42.4148, 29.1046, 8.2696)  
contains.

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# Color

**XYZ(42.4937, 29.1480,  
8.2370)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F26840
RGB	242, 104, 64
RGB Percent	95%, 41%, 25%
CMY	0.0510, 0.5921, 0.7490
CMYK	0.00, 0.57, 0.74, 0.05
HSL	13°, 87%, 60%
HSV	13°, 74%, 95%
XYZ	42.4937, 29.1480, 8.2370
YIQ	140.7020, 95.0880, 16.8160

# Conversions

## Conversions Part 2

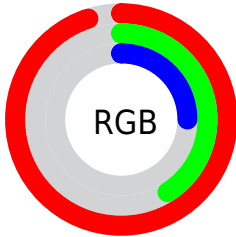
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	242, 116, 64
Decimal	15886400
CIE <sub>Lab</sub>	60.91, 50.81, 48.02
CIE <sub>LCh</sub>	61, 69.910, 43.385
Yxy	29.1480, 0.5320, 0.3649
Android (android.graphics.Color)	4294076480 (0xFFFF26840)
YUV	140.7020, -37.8141, 88.8383
Hunter-Lab	53.9889, 46.0136, 28.7464

# Details

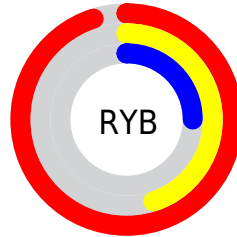
The XYZ color **42.4937, 29.1480, 8.2370** is a dark color, and the websafe version is hex **FF6633**. The color can be described as middle washed orange. A complement of this color would be **39.2602, 49.7385, 91.5352**, and the grayscale version is **25.3190, 26.6376, 29.0083**.

A 20% lighter version of the original color is **56.6754, 47.2712, 22.0567**, and **19.7822, 11.8177, 1.7286** is the 20% darker color. If you saturate the color by 10%, you get **40.2654, 25.5650, 4.8022**, and if you desaturate by 10%, it is **45.4419, 33.6938, 13.3849**.

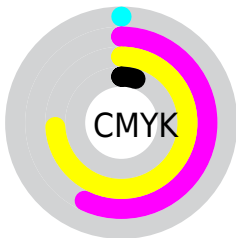
# Distribution



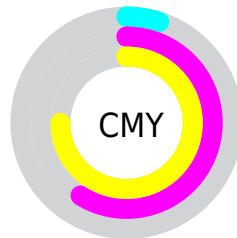
- Red (95%)
- Green (41%)
- Blue (25%)



- Red (95%)
- Yellow (45%)
- Blue (25%)



- Cyan (0%)
- Magenta (57%)
- Yellow (74%)
- Black (5%)



- Cyan (5%)
- Magenta (59%)
- Yellow (75%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.4937, 29.1480, 8.2370 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 42.4937, 29.1480, 8.2370 by changing the saturation by 10% instead.





 42.4937, 29.1480,  
8.2370

 42.4937, 29.1480,  
8.2370


347.4824,  
297.9126, 187.5828

 29.6809, 19.1928,  
4.1570


 78.2068, 58.3121,  
22.9756

 19.7433, 11.8097,  
1.7119


 101.8377, 78.2899,  
34.4712


 12.3158, 6.6142,  
0.3689


 129.8054,  
102.3773, 49.2759

 7.0329, 3.2220,  
0.0000

 162.4752,  
130.9587, 67.8080

 3.5292, 1.2487,  
0.0000

 200.2124,  
164.4185, 90.4863

 1.4394, 0.1010,  
0.0000

 243.3824,

 0.2840, 0.0000,

203.1412, 117.7291

0.0000

292.3506,  
247.5111, 149.9551

■ 0.0000, 0.0000,  
0.0000

■ 42.4937, 29.1480,  
8.2370

■ 42.4937, 29.1480,  
8.2370

■ 40.2654, 25.5650,  
4.8022

■ 45.4419, 33.6938,  
13.3849

■ 38.6851, 22.8669,  
2.8496


■ 49.1680, 39.2624,  
20.4337


■ 37.9552, 21.5521,  
2.1595


■ 53.7258, 45.9144,  
29.5480

■ 59.1637, 53.7042,  
40.8742

■ 65.5260, 62.6824,  
54.5450

 72.8543, 72.8964,  
70.6830

 81.1871, 84.3913,  
89.4018

 90.1396, 97.0408,  
108.5876

 90.4277, 97.6171,  
108.6837

# Harmonies

## Analogous

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



48.4920, 29.1480, 21.4778



42.4937, 29.1480, 8.2370



33.0241, 29.1480, 3.8451

# Triad

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



42.4937, 29.1480, 8.2370



14.0746, 29.1480, 19.4394



31.9629, 29.1480, 109.8947

# Complementary

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



42.4937, 29.1480, 8.2370



39.2602, 49.7385, 91.5352

# 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.



22.9889, 29.1480, 108.2272



42.4937, 29.1480, 8.2370



13.9125, 29.1480, 44.8328

# Square

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



42.4937, 29.1480, 8.2370



17.3250, 29.1480, 7.4495



16.8191, 29.1480, 80.2089



41.5714, 29.1480, 83.9784



# Rectangle

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



42.4937, 29.1480, 8.2370



26.6823, 29.1480, 3.3740



16.8191, 29.1480, 80.2089



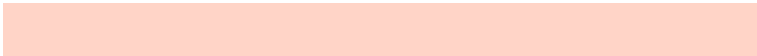
28.7521, 29.1480, 112.8409

# Sweetspot

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



42.4944, 29.1496, 8.2375



74.9581, 72.2207, 63.9612



49.2824, 26.8766, 59.3612



15.5950, 14.8286, 12.7125



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.



42.4944, 29.1496, 8.2375



44.4272, 27.2470, 4.1865



56.2978, 56.7566, 12.8386



16.0609, 16.3350, 16.4562



20.4736, 11.7453, 1.1880



1.7755, 1.1216, 0.1229

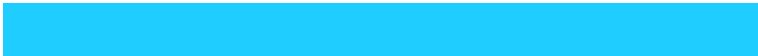


# Inverse Universe

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



39.2602, 49.7385, 91.5352



40.3303, 50.9595, 102.3183



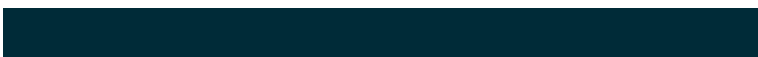
24.2078, 19.6337, 86.5177



15.9285, 17.2911, 20.2196



18.3326, 22.8895, 48.5798



1.5981, 2.0502, 4.0657



# Previews

## White Background



This preview shows how the XYZ color 42.4937, 29.1480, 8.2370 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



## 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 42.4937, 29.1480, 8.2370**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.4937, 29.1480, 8.2370.



This preview shows how white text looks on a background with the XYZ color 42.4937, 29.1480,



# 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

42.4937, 29.1480, 8.2370

### Protanopia

26.8653, 29.4112, 11.4687

### Deuteranopia

29.8348, 29.2223, 7.6824



## Tritanopia

44.3199, 29.1767, 16.6604

# Trichromacy



**Original Color**

42.4937, 29.1480, 8.2370

**Protanomaly**

30.9397, 28.0599, 10.0887

**Deuteranomaly**

33.5299, 28.4634, 7.7297

**Tritanomaly**

43.4613, 29.1002, 12.9991

# Monochromacy



**Original Color**

42.4937, 29.1480, 8.2370

**Achromatopsia**

25.3171, 26.6356, 29.0061

**Achromatomaly**

29.0599, 26.0956, 19.1281

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.4937, 29.1480, 8.2370 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(242, 104, 64)` looks like.

```
.text, #text, p{  
    color:rgb(242, 104, 64)  
}
```

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(242, 104, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 104, 64) }
```

## Border

The CSS property to change the border of an element to XYZ 42.4937, 29.1480, 8.2370 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(242, 104, 64) }
```



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

```
.border{ border-color:rgb(242, 104, 64) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 104, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 104, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 104, 64);  
box-shadow:4px 4px 4px 4px rgb(242, 104,  
64) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.4937, 29.1480, 8.2370 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 104, 64) }
```

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

```
.background{ background-color: rgb(242,  
104, 64) }
```

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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