

# Converting Colors

XYZ(49.2616, 42.6194, 12.2504)

Have a look what the booklet for  
XYZ(49.2616, 42.6194, 12.2504)  
contains.

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# Color

**XYZ(49.2670, 42.6515,  
12.2925)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F19B4B
RGB	241, 155, 75
RGB Percent	95%, 61%, 29%
CMY	0.0549, 0.3921, 0.7059
CMYK	0.00, 0.36, 0.69, 0.05
HSL	29°, 86%, 62%
HSV	29°, 69%, 95%
XYZ	49.2670, 42.6515, 12.2925
YIQ	171.5940, 76.9360, -6.6480

# Conversions

## Conversions Part 2

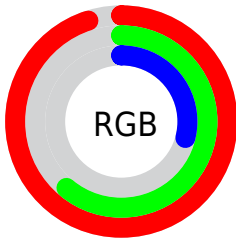
Format	Color
<b>R<sub>YB</sub></b>	241, 229, 75
Decimal	15833931
CIE <sub>Lab</sub>	71.32, 25.28, 53.89
CIE <sub>LCh</sub>	71, 59.519, 64.871
Yxy	42.6515, 0.4728, 0.4093
Android (android.graphics.Color)	4294024011 (0xFFFF19B4B)
YUV	171.5940, -47.6208, 60.8691
Hunter-Lab	65.3081, 20.3673, 34.5559

# Details

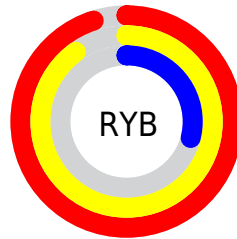
The XYZ color **49.2670, 42.6515, 12.2925** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **31.5229, 33.3347, 87.9914**, and the grayscale version is **39.2143, 41.2565, 44.9283**.

A 20% lighter version of the original color is **68.1174, 68.8855, 29.7847**, and **23.8175, 19.4617, 3.2602** is the 20% darker color. If you saturate the color by 10%, you get **46.6217, 38.4406, 8.0832**, and if you desaturate by 10%, it is **52.4414, 47.4214, 18.2193**.

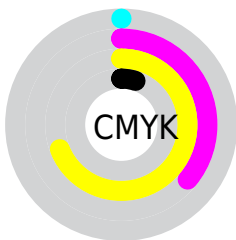
# Distribution



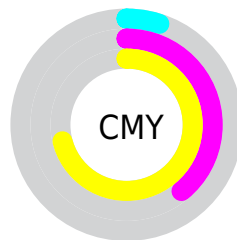
- Red (95%)
- Green (61%)
- Blue (29%)



- Red (95%)
- Yellow (90%)
- Blue (29%)



- Cyan (0%)
- Magenta (36%)
- Yellow (69%)
- Black (5%)



- Cyan (5%)
- Magenta (39%)
- Yellow (71%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.2670, 42.6515, 12.2925 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 49.2670, 42.6515, 12.2925 by changing the saturation by 10% instead.



49.2670, 42.6515,  
12.2925

49.2670, 42.6515,  
12.2925

374.2920,  
357.1766, 217.3784

35.0467, 29.6118,  
6.8183

88.2862, 79.1847,  
30.6991

23.8656, 19.5441,  
3.2720

113.8159,  
103.4470, 44.4684

15.3581, 12.0641,  
1.2351

143.8461,  
132.2188, 61.8400

9.1591, 6.7873,  
0.0077

178.7421,  
165.8848, 83.2321

4.9030, 3.3295,  
0.0000

218.8694,  
204.8291, 109.0635

2.2246, 1.3061,  
0.0000

264.5932,

0.7557, 0.1459,

249.4363, 139.7527

0.0000

316.2790,  
300.0906, 175.7181

■ 0.0000, 0.0000,  
0.0000

■ 49.2670, 42.6515,  
12.2925

■ 49.2670, 42.6515,  
12.2925

■ 46.6217, 38.4406,  
8.0832

■ 52.4414, 47.4214,  
18.2193

■ 44.4586, 34.7542,  
5.3900

■ 56.1797, 52.7687,  
26.0297


■ 42.7161, 31.5584,  
3.9176


■ 60.5166, 58.7187,  
35.8725


■ 42.5385, 31.2268,  
3.7853


■ 65.4828, 65.2928,  
47.8808

■ 71.1065, 72.5113,  
62.1762

 77.4141, 80.3931,  
78.8713

 84.4304, 88.9565,  
98.0711

 90.0484, 97.3666,  
108.6553

 90.0854, 97.4407,  
108.6677

# Harmonies

## Analogous

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



58.4539, 42.6515, 21.5309



49.2670, 42.6515, 12.2925



38.9278, 42.6515, 10.3390

# Triad

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



49.2670, 42.6515, 12.2925



24.2369, 42.6515, 51.2758



52.5588, 42.6515, 107.8734

# Complementary

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



49.2670, 42.6515, 12.2925



31.5229, 33.3347, 87.9914

# 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.



42.1940, 42.6515, 125.7794



49.2670, 42.6515, 12.2925



26.7185, 42.6515, 85.5855

# Square

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



49.2670, 42.6515, 12.2925



25.5008, 42.6515, 26.7570



32.9079, 42.6515, 116.2859



60.5631, 42.6515, 73.9775



# Rectangle

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



49.2670, 42.6515, 12.2925



32.9763, 42.6515, 12.2493



32.9079, 42.6515, 116.2859



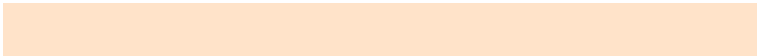
49.1775, 42.6515, 116.4796

# Sweetspot

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



49.2680, 42.6537, 12.2933



79.3757, 80.5783, 66.9059



45.4505, 26.3967, 37.6013



16.6042, 16.7543, 13.3348



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.



49.2680, 42.6537, 12.2933



51.8626, 41.7973, 7.6535



67.3875, 78.8926, 18.3331



16.4015, 17.0161, 16.5697



23.2014, 17.2010, 2.0973



2.0293, 1.6293, 0.2075



# Inverse Universe

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



31.5229, 33.3347, 87.9914



30.4510, 30.5211, 98.8940



21.6869, 13.6628, 84.7128



15.5746, 16.5834, 20.1016



12.7121, 11.6484, 46.7062



1.1571, 1.1683, 3.9187



# Previews

## White Background



This preview shows how the XYZ color 49.2670, 42.6515, 12.2925 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 49.2670, 42.6515, 12.2925 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

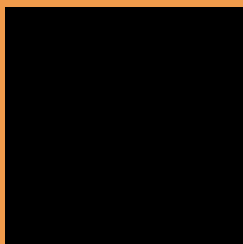
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.2670, 42.6515, 12.2925**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.2670, 42.6515, 12.2925.



This preview shows how white text looks on a background with the XYZ color 49.2670, 42.6515,



# 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

49.2670, 42.6515, 12.2925

### Protanopia

39.0633, 42.7234, 13.9722

### Deuteranopia

43.7194, 42.6457, 12.0581



## Tritanopia

54.3707, 42.5849, 37.2523

# Trichromacy



## Original Color

49.2670, 42.6515, 12.2925

## Protanomaly

42.2779, 42.4187, 13.3565

## Deuteranomaly

45.4870, 42.4905, 12.1074

## Tritanomaly

51.8864, 42.2603, 25.5010

# Monochromacy



## Original Color

49.2670, 42.6515, 12.2925

## Achromatopsia

39.2122, 41.2543, 44.9259

## Achromatomaly

41.1775, 40.9489, 29.4005

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.2670, 42.6515, 12.2925 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(241, 155, 75)` looks like.

```
.text, #text, p{  
    color:rgb(241, 155, 75)  
}
```

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(241, 155, 75) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(241, 155, 75) }
```

## Border

The CSS property to change the border of an element to XYZ 49.2670, 42.6515, 12.2925 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(241, 155, 75) }
```



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

```
.border{ border-color:rgb(241, 155, 75) }
```

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

Here you see how a box with a 4 pixel rgb(241, 155, 75) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(241, 155, 75); -webkit-box-  
shadow:4px 4px 4px 4px rgb(241, 155, 75);  
box-shadow:4px 4px 4px 4px rgb(241, 155,  
75) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.2670, 42.6515, 12.2925 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(241, 155, 75) }
```

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

```
.background{ background-color: rgb(241,  
155, 75) }
```

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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