

# Converting Colors

XYZ(42.9050, 24.5899, 2.4850)

Have a look what the booklet for  
XYZ(42.9050, 24.5899, 2.4850)  
contains.

<b>XYZ(42.9087, 24.5975, 2.4862)</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(42.9087, 24.5975,  
2.4862)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF3D00
RGB	255, 61, 0
RGB Percent	100%, 24%, 0%
CMY	0.0000, 0.7607, 1.0000
CMYK	0.00, 0.76, 1.00, 0.00
HSL	14°, 100%, 50%
HSV	14°, 100%, 100%
XYZ	42.9087, 24.5975, 2.4862
YIQ	112.0520, 135.2050, 22.1570

# Conversions

## Conversions Part 2

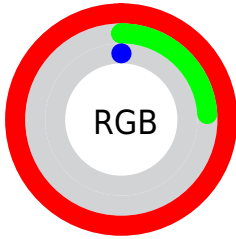
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 80, 0
Decimal	16727296
CIE <sub>Lab</sub>	56.68, 70.28, 68.57
CIE <sub>LCh</sub>	57, 98.194, 44.294
Yxy	24.5975, 0.6130, 0.3514
Android (android.graphics.Color)	4294917376 (0xFFFF3D00)
YUV	112.0520, -55.2416, 125.3654
Hunter-Lab	49.5959, 67.6395, 31.7449

# Details

The XYZ color **42.9087, 24.5975, 2.4862** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **37.3381, 45.7964, 101.4785**, and the grayscale version is **15.5478, 16.3575, 17.8133**.

A 20% lighter version of the original color is **49.2202, 35.7848, 9.0156**, and **20.7390, 10.6914, 0.9706** is the 20% darker color. If you saturate the color by 10%, you get **42.9092, 24.5989, 2.4865**, and if you desaturate by 10%, it is **44.3196, 27.1304, 3.8491**.

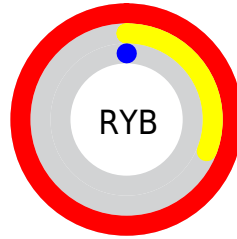
# Distribution



Red (100%)

Green (24%)

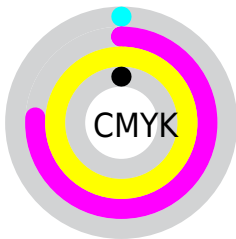
Blue (0%)



Red (100%)

Yellow (31%)

Blue (0%)

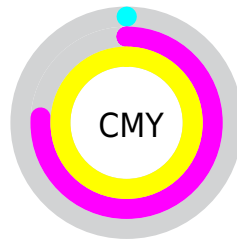


Cyan (0%)

Magenta (76%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (76%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.9087, 24.5975, 2.4862 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 42.9087, 24.5975, 2.4862 by changing the saturation by 10% instead.





 42.9087, 24.5975,  
2.4862


 42.9087, 24.5975,  
2.4862

349.1640,  
275.8275, 129.5206


 30.0077, 15.7774,  
0.8328


 78.8296, 51.0035,  
10.3319


 19.9925, 9.3668,  
0.0000


 102.5803, 69.3582,  
17.3671


 12.4978, 4.9812,  
0.0000


 130.6782, 91.6599,  
27.0354

 7.1583, 2.2362,  
0.0000

 163.4887,  
118.2931, 39.7552

 3.6085, 0.7396,  
0.0000

 201.3772,  
149.6420, 55.9450

 1.4831, 0.0000,  
0.0000

 244.7090,


 0.3143, 0.0000,


186.0911, 76.0235


0.0000


 293.8495,  
228.0248, 100.4092


 0.0000, 0.0000,  
0.0000


 42.9087, 24.5975,  
2.4862


 42.9087, 24.5975,  
2.4862


 42.9092, 24.5989,  
2.4865

 44.3196, 27.1304,  
3.8491

 46.3764, 30.5773,  
6.5898

 49.1836, 35.0326,  
11.0988

 52.8141, 40.5715,  
17.6181

 57.3313, 47.2617,  
26.3509

62.7920, 55.1648,  
37.4756

69.2478, 64.3382,  
51.1522

76.7467, 74.8353,  
67.5267

85.3333, 86.7066,  
86.7340

# Harmonies

## Analogous

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



51.8080, 24.5975, 14.0515



42.9087, 24.5975, 2.4862



29.8496, 24.5975, 0.2236

# Triad

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



42.9087, 24.5975, 2.4862



7.9596, 24.5975, 13.0986



29.2376, 24.5975, 145.8471

# Complementary

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



42.9087, 24.5975, 2.4862



37.3381, 45.7964, 101.4785

# 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.



17.9187, 24.5975, 144.6070



42.9087, 24.5975, 2.4862



7.8914, 24.5975, 45.5279

# Square

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



42.9087, 24.5975, 2.4862



11.1423, 24.5975, 2.2679



10.9101, 24.5975, 99.1974



42.3367, 24.5975, 101.8483



# Rectangle

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



42.9087, 24.5975, 2.4862



21.7716, 24.5975, 0.0000



10.9101, 24.5975, 99.1974



25.0640, 24.5975, 151.4020

# Sweetspot

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



42.9092, 24.5990, 2.4866



69.2481, 64.3383, 51.1519



51.1465, 25.2226, 54.0991



14.2127, 12.9093, 9.6457



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.



42.9092, 24.5990, 2.4866



42.9096, 24.5991, 2.4865



59.0098, 56.8003, 7.8534



18.3622, 18.6926, 18.7846



22.5165, 13.0442, 1.3310

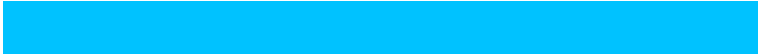


2.2726, 1.4305, 0.1563



# Inverse Universe

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



37.3381, 45.7964, 101.4785



37.3383, 45.7967, 101.4794



20.1170, 11.3543, 95.7381



18.1649, 19.7014, 23.0953



19.6317, 24.1730, 53.0657



1.9957, 2.5220, 5.1949



# Previews

## White Background



This preview shows how the XYZ color 42.9087, 24.5975, 2.4862 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

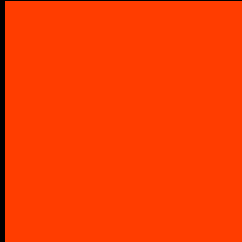
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.9087, 24.5975, 2.4862 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 42.9087, 24.5975, 2.4862**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.9087, 24.5975, 2.4862.



This preview shows how white text looks on a background with the XYZ color 42.9087, 24.5975,



# 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

42.9087, 24.5975, 2.4862

### Protanopia

22.3169, 24.7574, 4.8307

### Deuteranopia

24.9959, 24.7359, 3.4571



## Tritanopia

43.5425, 24.6019, 6.5914

# Trichromacy



## Original Color

42.9087, 24.5975, 2.4862

## Protanomaly

26.8214, 21.9314, 3.4356

## Deuteranomaly

29.4087, 22.6597, 2.8238

## Tritanomaly

43.1538, 24.5279, 4.2936

# Monochromacy



## Original Color

42.9087, 24.5975, 2.4862

## Achromatopsia

15.4009, 16.2029, 17.6450

## Achromatomaly

20.3615, 16.1761, 8.0104

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.9087, 24.5975, 2.4862 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(255, 61, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 61, 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(255, 61, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 61, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 42.9087, 24.5975, 2.4862 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(255, 61, 0) }
```



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

```
.border{ border-color:rgb(255, 61, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 61, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 61, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 61, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 61, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 42.9087, 24.5975, 2.4862 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 61, 0) }
```

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

```
.background{ background-color: rgb(255, 61,  
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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