

# Converting Colors

XYZ(42.5064, 25.5344, 3.3250)

Have a look what the booklet for  
XYZ(42.5064, 25.5344, 3.3250)  
contains.

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# Color

**XYZ(42.3500, 25.4538,  
3.2971)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FB4A13
RGB	251, 74, 19
RGB Percent	98%, 29%, 7%
CMY	0.0157, 0.7098, 0.9255
CMYK	0.00, 0.71, 0.92, 0.02
HSL	14°, 97%, 53%
HSV	14°, 92%, 98%
XYZ	42.3500, 25.4538, 3.2971
YIQ	120.6530, 123.1470, 20.4190

# Conversions

## Conversions Part 2

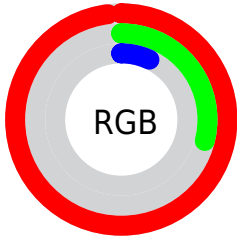
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	251, 91, 19
Decimal	16468499
CIE <sub>Lab</sub>	57.51, 65.02, 64.41
CIE <sub>LCh</sub>	58, 91.522, 44.731
Yxy	25.4538, 0.5956, 0.3580
Android (android.graphics.Color)	4294658579 (0xFFFB4A13)
YUV	120.6530, -50.1149, 114.3143
Hunter-Lab	50.4518, 61.5451, 31.4415

# Details

The XYZ color **42.3500, 25.4538, 3.2971** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark washed red. A complement of this color would be **37.4187, 46.5787, 98.2845**, and the grayscale version is **18.1923, 19.1397, 20.8431**.

A 20% lighter version of the original color is **50.6939, 38.2436, 11.0132**, and **20.0076, 10.3143, 0.9363** is the 20% darker color. If you saturate the color by 10%, you get **41.3739, 23.6902, 2.3920**, and if you desaturate by 10%, it is **44.1684, 28.5487, 5.5755**.

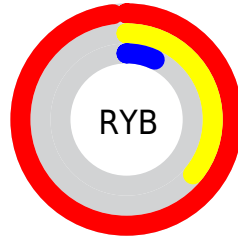
# Distribution



Red (98%)

Green (29%)

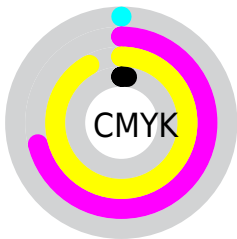
Blue (7%)



Red (98%)

Yellow (36%)

Blue (7%)

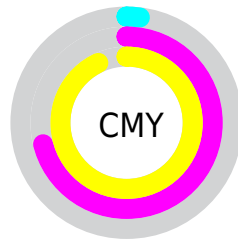


Cyan (0%)

Magenta (71%)

Yellow (92%)

Black (2%)



Cyan (2%)

Magenta (71%)


Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.3500, 25.4538, 3.2971 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 42.3500, 25.4538, 3.2971 by changing the saturation by 10% instead.




 42.3500, 25.4538,  
3.2971


 42.3500, 25.4538,  
3.2971


346.8988,  
280.0904, 140.0591

 29.5678, 16.4155,  
1.2483


 77.9909, 52.3925,  
12.3532


 19.6572, 9.8186,  
0.0188


 101.5803, 71.0616,  
20.1974

 12.2529, 5.2789,  
0.0000


 129.5027, 93.7098,  
30.8106

 6.9896, 2.4118,  
0.0000

 162.1236,  
120.7214, 44.6113

 3.5019, 0.8319,  
0.0000

 199.8083,  
152.4809, 62.0179


 1.4244, 0.0000,  
0.0000


 242.9222,


 0.2735, 0.0000,


189.3727, 83.4491


0.0000


 291.8305,  
231.7810, 109.3233


 0.0000, 0.0000,  
0.0000


 42.3500, 25.4538,  
3.2971

 42.3500, 25.4538,  
3.2971


 41.3739, 23.6902,  
2.3920

 44.1684, 28.5487,  
5.5755

 46.6922, 32.5980,  
9.4944

 49.9953, 37.6785,  
15.2987

 54.1407, 43.8573,  
23.1916

 59.1846, 51.1956,  
33.3498

65.1782, 59.7497,  
45.9310

72.1684, 69.5725,  
61.0787

80.1992, 80.7133,  
78.9253

89.3116, 93.2191,  
99.5939

# Harmonies

## Analogous

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



50.6572, 25.4538, 15.0799



42.3500, 25.4538, 3.2971



30.1440, 25.4538, 0.7601

# Triad

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



42.3500, 25.4538, 3.2971



9.0816, 25.4538, 14.7206



29.9248, 25.4538, 135.7624

# Complementary

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



42.3500, 25.4538, 3.2971



37.4187, 46.5787, 98.2845

# 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.



19.0819, 25.4538, 135.3428



42.3500, 25.4538, 3.2971



9.0552, 25.4538, 45.9561

# Square

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



42.3500, 25.4538, 3.2971



12.2355, 25.4538, 3.2018



12.1475, 25.4538, 95.0762



42.1485, 25.4538, 95.9842



# Rectangle

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



42.3500, 25.4538, 3.2971



22.5048, 25.4538, 0.5561



12.1475, 25.4538, 95.0762



25.9637, 25.4538, 140.9287

# Sweetspot

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



42.3505, 25.4553, 3.2975



70.6271, 66.2584, 54.1946



50.0791, 25.0000, 54.9293



14.4741, 13.2749, 10.2178



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.



42.3505, 25.4553, 3.2975



42.8803, 24.5405, 2.4768



58.1273, 57.0088, 8.5564



17.5787, 17.8932, 17.9896



21.8405, 12.6377, 1.2882



2.1008, 1.3265, 0.1453



# Inverse Universe

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



37.4187, 46.5787, 98.2845



37.4613, 46.0426, 101.5204



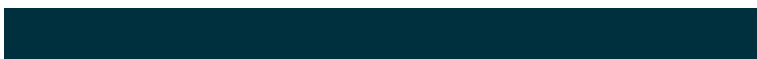
20.6138, 12.9688, 92.6829



17.3966, 18.8700, 22.1107



19.1195, 23.5945, 51.5200



1.8518, 2.3473, 4.7987



# Previews

## White Background



This preview shows how the XYZ color 42.3500, 25.4538, 3.2971 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 42.3500, 25.4538, 3.2971 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 42.3500, 25.4538, 3.2971**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.3500, 25.4538, 3.2971.



This preview shows how white text looks on a background with the XYZ color 42.3500, 25.4538,



# 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

42.3500, 25.4538, 3.2971

### Protanopia

23.2614, 25.6605, 5.3960

### Deuteranopia

25.7955, 25.3466, 3.5328



## Tritanopia

43.4427, 25.4196, 8.7477

# Trichromacy



## Original Color

42.3500, 25.4538, 3.2971

## Protanomaly

27.8509, 23.4316, 4.2831

## Deuteranomaly

30.2429, 23.8637, 3.2132

## Tritanomaly

43.0407, 25.4590, 6.0137

# Monochromacy



## Original Color

42.3500, 25.4538, 3.2971

## Achromatopsia

18.1737, 19.1202, 20.8219

## Achromatomaly

22.6990, 18.8656, 10.8326

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.3500, 25.4538, 3.2971 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(251, 74, 19)` looks like.

```
.text, #text, p{  
    color:rgb(251, 74, 19)  
}
```

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(251, 74, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(251, 74, 19) }
```

## Border

The CSS property to change the border of an element to XYZ 42.3500, 25.4538, 3.2971 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(251, 74, 19) }
```



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

```
.border{ border-color:rgb(251, 74, 19) }
```

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

Here you see how a box with a 4 pixel `rgb(251, 74, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(251, 74, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(251, 74, 19);  
box-shadow:4px 4px 4px 4px rgb(251, 74,  
19) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.3500, 25.4538, 3.2971 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(251, 74, 19) }
```

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

```
.background{ background-color: rgb(251, 74,  
19) }
```

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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