

# Converting Colors

XYZ(42.3971, 28.9977, 3.3626)

Have a look what the booklet for  
XYZ(42.3971, 28.9977, 3.3626)  
contains.

<b>XYZ(42.5064, 29.1130, 3.3790)</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(42.5064, 29.1130,  
3.3790)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	F56700
RGB	245, 103, 0
RGB Percent	96%, 40%, 0%
CMY	0.0392, 0.5960, 1.0000
CMYK	0.00, 0.58, 1.00, 0.04
HSL	25°, 100%, 48%
HSV	25°, 100%, 96%
XYZ	42.5064, 29.1130, 3.3790
YIQ	133.7160, 117.6950, -1.9290

# Conversions

## Conversions Part 2

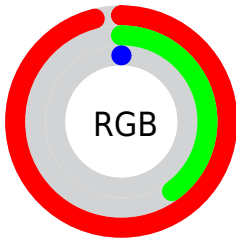
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	245, 178, 0
Decimal	16082688
CIE Lab	60.88, 50.98, 69.70
CIE LCh	61, 86.356, 53.820
Yxy	29.1130, 0.5668, 0.3882
Android (android.graphics.Color)	4294272768 (0xFFFF56700)
YUV	133.7160, -65.9220, 97.5961
Hunter-Lab	53.9565, 46.1968, 34.0565

# Details

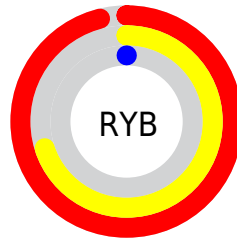
The XYZ color **42.5064, 29.1130, 3.3790** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **26.1536, 25.9370, 90.0132**, and the grayscale version is **22.7611, 23.9465, 26.0777**.

A 20% lighter version of the original color is **54.5102, 46.1311, 11.5000**, and **19.8793, 11.8172, 1.2332** is the 20% darker color. If you saturate the color by 10%, you get **42.5067, 29.1141, 3.3792**, and if you desaturate by 10%, it is **44.2116, 32.2516, 4.7869**.

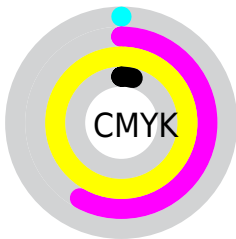
# Distribution



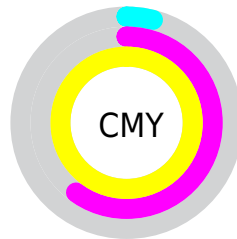
- Red (96%)
- Green (40%)
- Blue (0%)



- Red (96%)
- Yellow (70%)
- Blue (0%)



- Cyan (0%)
- Magenta (58%)
- Yellow (100%)
- Black (4%)




- Cyan (4%)
- Magenta (60%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.5064, 29.1130, 3.3790 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 42.5064, 29.1130, 3.3790 by changing the saturation by 10% instead.





 42.5064, 29.1130,  
3.3790


 42.5064, 29.1130,  
3.3790


347.5339,  
297.7478, 141.0504

 29.6909, 19.1663,  
1.2913


 78.2258, 58.2566,  
12.5501


 19.7510, 11.7905,  
0.0546


 101.8604, 78.2223,  
20.4706

 12.3214, 6.6012,  
0.0000


 129.8321,  
102.2964, 31.1724

 7.0367, 3.2140,  
0.0000

 162.5062,  
130.8634, 45.0741

 3.5316, 1.2444,  
0.0000

 200.2481,  
164.3076, 62.5942


 1.4407, 0.0976,  
0.0000


 243.4231,


 0.2850, 0.0000,


203.0135, 84.1513


0.0000


 292.3966,  
247.3654, 110.1638


 0.0000, 0.0000,  
0.0000

 42.5064, 29.1130,  
3.3790


 42.5064, 29.1130,  
3.3790


 42.5067, 29.1141,  
3.3792

 44.2116, 32.2516,  
4.7869

 46.3815, 35.9765,  
7.4059

 49.0937, 40.3369,  
11.5897

 52.3979, 45.3688,  
17.5518

 56.3372, 51.1043,  
25.4715

60.9497, 57.5731,  
35.5060

66.2702, 64.8028,  
47.7960

72.3309, 72.8195,  
62.4705

79.1617, 81.6478,  
79.6481

# Harmonies

## Analogous

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



52.5535, 29.1130, 12.6840



42.5064, 29.1130, 3.3790



30.0657, 29.1130, 1.3862

# Triad

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



42.5064, 29.1130, 3.3790



11.2550, 29.1130, 25.4865



37.3594, 29.1130, 128.8644

# Complementary

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



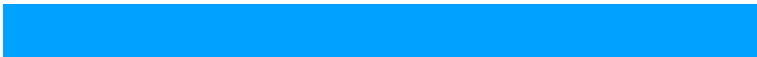
42.5064, 29.1130, 3.3790



26.1536, 25.9370, 90.0132

# 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.



25.4070, 29.1130, 141.7998



42.5064, 29.1130, 3.3790



12.2241, 29.1130, 63.8808

# Square

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



42.5064, 29.1130, 3.3790



13.6252, 29.1130, 7.3885



16.7646, 29.1130, 112.6119



49.0624, 29.1130, 84.1402



# Rectangle

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



42.5064, 29.1130, 3.3790



22.8186, 29.1130, 1.5718



16.7646, 29.1130, 112.6119



33.1668, 29.1130, 137.9435

# Sweetspot

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



42.5070, 29.1147, 3.3795



72.5369, 70.9159, 52.2482



42.6076, 21.3931, 27.8377



14.9786, 14.4412, 9.9010



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.



42.5070, 29.1147, 3.3795



46.5197, 31.8195, 3.6899



64.4684, 73.0374, 10.6999



17.0717, 17.6275, 17.3002



23.0294, 15.9443, 1.8638



2.1233, 1.5999, 0.1969

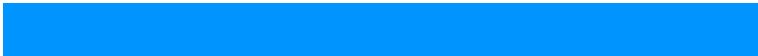


# Inverse Universe

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



26.1536, 25.9370, 90.0132



28.6068, 28.3336, 98.5689



16.7390, 7.1079, 86.8751



16.3789, 17.5222, 21.0614



14.2294, 14.2526, 48.5391



1.3521, 1.4557, 4.3000



# Previews

## White Background



This preview shows how the XYZ color 42.5064, 29.1130, 3.3790 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 42.5064, 29.1130, 3.3790 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 42.5064, 29.1130, 3.3790**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.5064, 29.1130, 3.3790.



This preview shows how white text looks on a background with the XYZ color 42.5064, 29.1130,



# 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

42.5064, 29.1130, 3.3790

### Protanopia

26.4807, 29.3527, 5.1341

### Deuteranopia

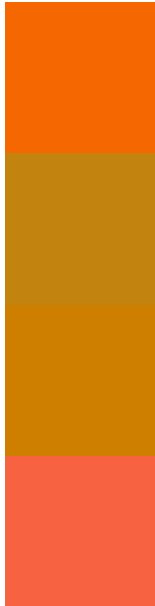
29.6278, 29.1953, 4.0737



## Tritanopia

45.2925, 29.2815, 15.8351

# Trichromacy



## Original Color

42.5064, 29.1130, 3.3790

## Protanomaly

30.8432, 28.1391, 4.2577

## Deuteranomaly

33.3215, 28.4441, 3.7340

## Tritanomaly

43.7737, 29.0795, 8.3068

# Monochromacy



## Original Color

42.5064, 29.1130, 3.3790

## Achromatopsia

22.6597, 23.8398, 25.9615

## Achromatomaly

26.1782, 23.8205, 11.8124

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.5064, 29.1130, 3.3790 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(245, 103, 0)` looks like.

```
.text, #text, p{  
    color:rgb(245, 103, 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(245, 103, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(245, 103, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 42.5064, 29.1130, 3.3790 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(245, 103, 0) }
```



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

```
.border{ border-color:rgb(245, 103, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(245, 103, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(245, 103, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(245, 103, 0);  
box-shadow:4px 4px 4px 4px rgb(245, 103,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.5064, 29.1130, 3.3790 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(245, 103, 0) }
```

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

```
.background{ background-color: rgb(245,  
103, 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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