

# Converting Colors

XYZ(42.6670, 31.4343, 3.9576)

Have a look what the booklet for  
XYZ(42.6670, 31.4343, 3.9576)  
contains.

<b>XYZ(42.6643, 31.4343, 3.9624)</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(42.6643, 31.4343,  
3.9624)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F17505
RGB	241, 117, 5
RGB Percent	95%, 46%, 2%
CMY	0.0549, 0.5411, 0.9804
CMYK	0.00, 0.51, 0.98, 0.05
HSL	28°, 96%, 48%
HSV	28°, 98%, 95%
XYZ	42.6643, 31.4343, 3.9624
YIQ	141.3080, 109.8560, -8.5440

# Conversions

## Conversions Part 2

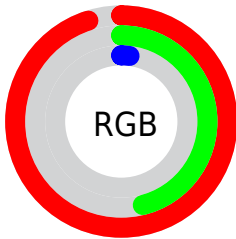
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	241, 218, 5
Decimal	15824133
CIE <sub>Lab</sub>	62.87, 42.87, 69.71
CIE <sub>LCh</sub>	63, 81.836, 58.411
Y <sub>xy</sub>	31.4343, 0.5466, 0.4027
Android (android.graphics.Color)	4294014213 (0xFFFF17505)
YUV	141.3080, -67.1998, 87.4299
Hunter-Lab	56.0663, 37.7156, 35.0562

# Details

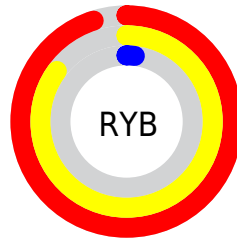
The XYZ color **42.6643, 31.4343, 3.9624** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **23.7901, 22.0839, 86.2271**, and the grayscale version is **25.6656, 27.0022, 29.4054**.

A 20% lighter version of the original color is **56.9726, 50.8537, 12.9439**, and **20.0218, 13.1277, 1.4786** is the 20% darker color. If you saturate the color by 10%, you get **42.3351, 30.8202, 3.7176**, and if you desaturate by 10%, it is **44.4373, 34.6676, 5.5189**.

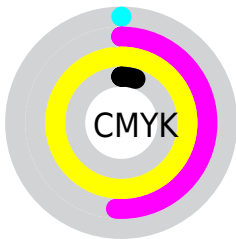
# Distribution



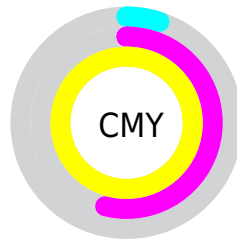
- Red (95%)
- Green (46%)
- Blue (2%)



- Red (95%)
- Yellow (85%)
- Blue (2%)



- Cyan (0%)
- Magenta (51%)
- Yellow (98%)
- Black (5%)




- Cyan (5%)
- Magenta (54%)
- Yellow (98%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.6643, 31.4343, 3.9624 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 42.6643, 31.4343, 3.9624 by changing the saturation by 10% instead.





 42.6643, 31.4343,  
3.9624


 42.6643, 31.4343,  
3.9624

348.1743,  
308.5342, 147.8065


 29.8152, 20.9298,  
1.6047


 78.4629, 61.9232,  
13.9229

 19.8457, 13.0727,  
0.2942


 102.1431, 82.6764,  
22.3629


 12.3906, 7.4786,  
0.0000

 130.1644,  
107.6145, 33.6674

 7.0843, 3.7632,  
0.0000

 162.8921,  
137.1221, 48.2550

 3.5617, 1.5420,  
0.0000

 200.6916,  
171.5834, 66.5441


 1.4573, 0.3180,  
0.0000

 243.9282,


 0.2965, 0.0000,


211.3830, 88.9534


0.0000


 292.9674,  
256.9051, 115.9013


 0.0000, 0.0000,  
0.0000


 42.6643, 31.4343,  
3.9624


 42.6643, 31.4343,  
3.9624


 42.3351, 30.8202,  
3.7176

 44.4373, 34.6676,  
5.5189

 46.6453, 38.4047,  
8.3479

 49.3463, 42.6818,  
12.7162

 52.5838, 47.5271,  
18.8195

 56.3955, 52.9661,  
26.8242

60.8149, 59.0220,  
36.8766

65.8727, 65.7168,  
49.1086

71.5973, 73.0710,  
63.6412

78.0151, 81.1041,  
80.5861

# Harmonies

## Analogous

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



53.1561, 31.4343, 12.4411



42.6643, 31.4343, 3.9624



30.4796, 31.4343, 2.1650

# Triad

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



42.6643, 31.4343, 3.9624



13.0832, 31.4343, 32.5416



41.3637, 31.4343, 122.4195

# Complementary

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



42.6643, 31.4343, 3.9624



23.7901, 22.0839, 86.2271

# 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.



29.2831, 31.4343, 140.6028



42.6643, 31.4343, 3.9624



14.6345, 31.4343, 72.8484

# Square

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



42.6643, 31.4343, 3.9624



15.0094, 31.4343, 10.9899



19.9406, 31.4343, 118.4558



52.2825, 31.4343, 77.8701



# Rectangle

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



42.6643, 31.4343, 3.9624



23.5679, 31.4343, 2.7025



19.9406, 31.4343, 118.4558



37.2229, 31.4343, 132.7039

# Sweetspot

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



42.6650, 31.4360, 3.9629



74.1789, 73.7848, 54.0752



40.4177, 20.4446, 23.2428



15.3393, 15.0845, 10.2615



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.



42.6650, 31.4360, 3.9629



48.0799, 34.9397, 4.2100



65.4793, 77.0646, 11.5677



16.3915, 16.9962, 16.5664



23.0906, 16.9793, 2.0603



2.0199, 1.6104, 0.2044



# Inverse Universe

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



23.7901, 22.0839, 86.2271



26.5723, 24.2645, 97.8908



16.0821, 6.6678, 83.6578



15.5846, 16.6033, 20.1050



12.8353, 11.8948, 46.7473



1.1674, 1.1887, 3.9221



# Previews

## White Background



This preview shows how the XYZ color 42.6643, 31.4343, 3.9624 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 42.6643, 31.4343, 3.9624 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 42.6643, 31.4343, 3.9624**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.6643, 31.4343, 3.9624.



This preview shows how white text looks on a background with the XYZ color 42.6643, 31.4343,



# 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

42.6643, 31.4343, 3.9624

### Protanopia

28.5493, 31.6110, 5.3559

### Deuteranopia

32.1177, 31.5883, 4.4044



## Tritanopia

45.9293, 31.4313, 20.1691

# Trichromacy



## Original Color

42.6643, 31.4343, 3.9624

## Protanomaly

32.4976, 30.6639, 4.6961

## Deuteranomaly

35.2533, 31.0340, 4.1895

## Tritanomaly

44.0608, 31.1648, 10.5306

# Monochromacy



## Original Color

42.6643, 31.4343, 3.9624

## Achromatopsia

25.3171, 26.6356, 29.0061

## Achromatomaly

28.3145, 26.6223, 13.7715

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.6643, 31.4343, 3.9624 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, 117, 5)` looks like.

```
.text, #text, p{  
    color:rgb(241, 117, 5)  
}
```

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, 117, 5) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(241, 117, 5) }
```

## Border

The CSS property to change the border of an element to XYZ 42.6643, 31.4343, 3.9624 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, 117, 5) }
```



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

```
.border{ border-color:rgb(241, 117, 5) }
```

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

Here you see how a box with a 4 pixel rgb(241, 117, 5) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(241, 117, 5); -webkit-box-  
shadow:4px 4px 4px 4px rgb(241, 117, 5);  
box-shadow:4px 4px 4px 4px rgb(241, 117,  
5) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.6643, 31.4343, 3.9624 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(241, 117, 5) }
```

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

```
.background{ background-color: rgb(241,  
117, 5) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor