

# Converting Colors

XYZ(42.6786, 34.6313, 5.5975)

Have a look what the booklet for  
XYZ(42.6786, 34.6313, 5.5975)  
contains.

<b>XYZ(42.6786, 34.6313, 5.5975)</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(42.6786, 34.6313,  
5.5975)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EA861D
RGB	234, 134, 29
RGB Percent	92%, 53%, 11%
CMY	0.0824, 0.4745, 0.8863
CMYK	0.00, 0.43, 0.88, 0.08
HSL	31°, 83%, 52%
HSV	31°, 88%, 92%
XYZ	42.6786, 34.6313, 5.5975
YIQ	151.9300, 93.3050, -11.4550

# Conversions

## Conversions Part 2

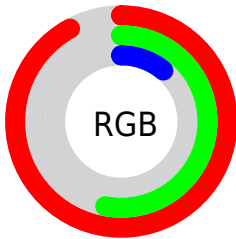
Format	Color
R <sub>Y</sub> B	224, 234, 29
Decimal	15369757
CIE Lab	65.46, 31.75, 66.08
CIE LCh	65, 73.317, 64.334
Yxy	34.6313, 0.5148, 0.4177
Android (android.graphics.Color)	4293559837 (0xFFEA861D)
YUV	151.9300, -60.6045, 71.9754
Hunter-Lab	58.8484, 26.4689, 35.5543

# Details

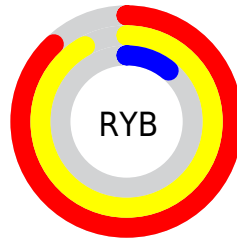
The XYZ color **42.6786, 34.6313, 5.5975** is a dark color, and the websafe version is hex **FF9933**. The color can be described as dark washed orange. A complement of this color would be **23.2079, 21.9016, 80.8457**, and the grayscale version is **30.0410, 31.6055, 34.4184**.

A 20% lighter version of the original color is **60.9029, 57.8983, 16.7697**, and **20.1065, 14.9572, 1.8273** is the 20% darker color. If you saturate the color by 10%, you get **40.9947, 31.5697, 4.0938**, and if you desaturate by 10%, it is **44.7503, 38.1236, 8.2968**.

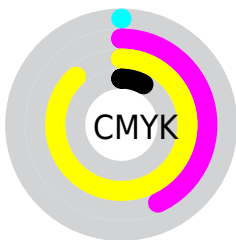
# Distribution



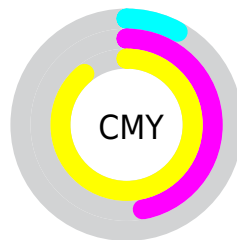
- Red (92%)
- Green (53%)
- Blue (11%)



- Red (88%)
- Yellow (92%)
- Blue (11%)



- Cyan (0%)
- Magenta (43%)
- Yellow (88%)
- Black (8%)




- Cyan (8%)
- Magenta (47%)
- Yellow (89%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.6786, 34.6313, 5.5975 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 42.6786, 34.6313, 5.5975 by changing the saturation by 10% instead.





 42.6786, 34.6313,  
5.5975


 42.6786, 34.6313,  
5.5975


348.2323,  
322.9379, 164.6025


 29.8264, 23.3790,  
2.5371


 78.4844, 66.9142,  
17.5526


 19.8543, 14.8736,  
0.8597


 102.1687, 88.7136,  
27.2844


 12.3968, 8.7307,  
0.0000

 130.1945,  
114.7975, 40.0770

 7.0887, 4.5660,  
0.0000

 162.9270,  
145.5502, 56.3491

 3.5644, 1.9949,  
0.0000

 200.7317,  
181.3562, 76.5192

 1.4588, 0.6045,  
0.0000

 243.9739,

 0.2975, 0.0000,

222.5999, 101.0057

0.0000

293.0190,  
269.6657, 130.2273

■ 0.0000, 0.0000,  
0.0000

■ 42.6786, 34.6313,  
5.5975

■ 42.6786, 34.6313,  
5.5975

■ 40.9947, 31.5697,  
4.0938

■ 44.7503, 38.1236,  
8.2968

■ 40.6310, 30.8913,  
3.8211

■ 47.2583, 42.0695,  
12.4314

■ 50.2421, 46.4944,  
18.1820

■ 53.7352, 51.4191,  
25.7021

■ 57.7678, 56.8630,  
35.1269

■ 62.3669, 62.8440,  
46.5785

■ 67.5579, 69.3790,  
60.1685

■ 73.3642, 76.4840,  
76.0004

■ 79.8080, 84.1742,  
94.1710

# Harmonies

## Analogous

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



53.0471, 34.6313, 13.2450



42.6786, 34.6313, 5.5975



31.3821, 34.6313, 4.1565

# Triad

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



42.6786, 34.6313, 5.5975



16.3395, 34.6313, 42.3490



45.9691, 34.6313, 110.5104

# Complementary

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



42.6786, 34.6313, 5.5975



23.2079, 21.9016, 80.8457

# 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.



34.4991, 34.6313, 132.5588



42.6786, 34.6313, 5.5975



18.6565, 34.6313, 81.7831

# Square

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



42.6786, 34.6313, 5.5975



17.6095, 34.6313, 17.4780



24.7688, 34.6313, 119.9046



55.2181, 34.6313, 69.5026



# Rectangle

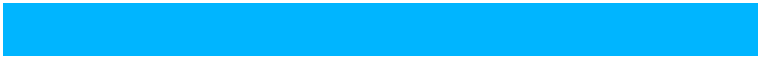
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



42.6786, 34.6313, 5.5975



25.1297, 34.6313, 5.4365



24.7688, 34.6313, 119.9046



42.1644, 34.6313, 121.1628

# Sweetspot

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



42.6794, 34.6331, 5.5981



76.6897, 77.5150, 58.8935



38.5018, 20.0236, 23.4872



15.9733, 16.0264, 11.4786



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.



42.6794, 34.6331, 5.5981



49.3048, 37.3896, 4.6183



63.5760, 76.4264, 12.5637



15.7035, 16.3299, 15.8430



22.9591, 17.6124, 2.1895



1.8991, 1.5756, 0.2040



# Inverse Universe

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



23.2079, 21.9016, 80.8457



25.3059, 21.7318, 97.4686



15.7975, 7.0807, 78.3756



14.8378, 15.7620, 19.1826



11.8611, 10.3692, 45.1193



1.0274, 1.0063, 3.5750



# Previews

## White Background



This preview shows how the XYZ color 42.6786, 34.6313, 5.5975 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 42.6786, 34.6313, 5.5975 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 42.6786, 34.6313, 5.5975**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.6786, 34.6313, 5.5975.



This preview shows how white text looks on a background with the XYZ color 42.6786, 34.6313,



# 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

42.6786, 34.6313, 5.5975

### Protanopia

31.4796, 34.8527, 6.7372

### Deuteranopia

35.5100, 34.7243, 5.2828



## Tritanopia

47.2333, 34.7392, 26.7701

# Trichromacy



## Original Color

42.6786, 34.6313, 5.5975

## Protanomaly

34.8943, 34.3851, 6.2367

## Deuteranomaly

37.9832, 34.5974, 5.3379

## Tritanomaly

44.7555, 34.2874, 15.3256

# Monochromacy



## Original Color

42.6786, 34.6313, 5.5975

## Achromatopsia

29.8446, 31.3989, 34.1934

## Achromatomaly

32.0706, 31.2574, 18.2529

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.6786, 34.6313, 5.5975 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(234, 134, 29)` looks like.

```
.text, #text, p{  
    color:rgb(234, 134, 29)  
}
```

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(234, 134, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 134, 29) }
```

## Border

The CSS property to change the border of an element to XYZ 42.6786, 34.6313, 5.5975 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(234, 134, 29) }
```



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

```
.border{ border-color:rgb(234, 134, 29) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 134, 29)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 134, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 134, 29);  
box-shadow:4px 4px 4px 4px rgb(234, 134,  
29) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.6786, 34.6313, 5.5975 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 134, 29) }
```

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

```
.background{ background-color: rgb(234,  
134, 29) }
```

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