

# Converting Colors

XYZ(40.7388, 34.6547, 4.7247)

Have a look what the booklet for  
XYZ(40.7388, 34.6547, 4.7247)  
contains.

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# Color

**XYZ(40.6295, 34.6471,  
4.7185)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E28B06
RGB	226, 139, 6
RGB Percent	89%, 55%, 2%
CMY	0.1137, 0.4549, 0.9764
CMYK	0.00, 0.38, 0.97, 0.11
HSL	36°, 95%, 45%
HSV	36°, 97%, 89%
XYZ	40.6295, 34.6471, 4.7185
YIQ	149.8510, 94.5450, -22.9190

# Conversions

## Conversions Part 2

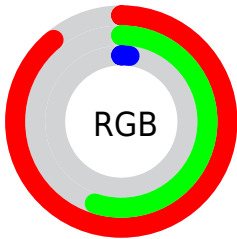
Format	Color
<a href="#">RYB</a>	<a href="#">150, 226, 6</a>
Decimal	<a href="#">14846726</a>
CIELab	<a href="#">65.47, 25.47, 70.22</a>
CIELCh	<a href="#">65, 74.698, 70.061</a>
Yxy	<a href="#">34.6471, 0.5079, 0.4331</a>
Android (android.graphics.Color)	<a href="#">4293036806</a> ( <a href="#">0xFFE28B06</a> )
YUV	<a href="#">149.8510, -70.9185, 66.7827</a>
Hunter-Lab	<a href="#">58.8618, 20.2020, 36.4504</a>

# Details

The XYZ color **40.6295, 34.6471, 4.7185** 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 **17.7175, 13.3594, 73.5957**, and the grayscale version is **29.1909, 30.7111, 33.4444**.

A 20% lighter version of the original color is **61.5800, 59.9079, 14.9744**, and **18.8822, 15.0373, 1.9073** is the 20% darker color. If you saturate the color by 10%, you get **40.2567, 33.9546, 4.4321**, and if you desaturate by 10%, it is **42.1618, 37.4175, 6.1376**.

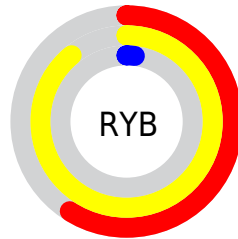
# Distribution



Red (89%)

Green (55%)

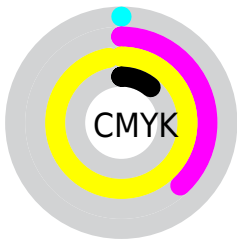
Blue (2%)



Red (59%)

Yellow (89%)

Blue (2%)

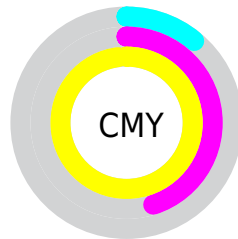


Cyan (0%)

Magenta (38%)

Yellow (97%)

Black (11%)



Cyan (11%)

Magenta (45%)


Yellow (98%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.6295, 34.6471, 4.7185 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 40.6295, 34.6471, 4.7185 by changing the saturation by 10% instead.





 40.6295, 34.6471,  
4.7185


 40.6295, 34.6471,  
4.7185


339.8588,  
323.0079, 155.9049


 28.2161, 23.3912,  
2.0272

 75.3994, 66.9387,  
15.6356


 18.6299, 14.8826,  
0.5719


 98.4866, 88.7432,  
24.6985


 11.5056, 8.7370,  
0.0000


 125.8625,  
114.8326, 36.7223

 6.4778, 4.5701,  
0.0000

 157.8923,  
145.5914, 52.1257

 3.1811, 1.9973,  
0.0000

 194.9415,  
181.4039, 71.3271


 1.2502, 0.6059,  
0.0000

 237.3754,


 0.1455, 0.0000,


222.6545, 94.7451


0.0000


 285.5594,  
269.7278, 122.7982


 0.0000, 0.0000,  
0.0000


 40.6295, 34.6471,  
4.7185


 40.6295, 34.6471,  
4.7185


 40.2567, 33.9546,  
4.4321

 42.1618, 37.4175,  
6.1376

 44.0028, 40.4831,  
8.6514

 46.1966, 43.8667,  
12.4778

 48.7764, 47.5853,  
17.7803

 51.7708, 51.6539,  
24.6983

■ 55.2052, 56.0860,  
33.3549

■ 59.1026, 60.8942,  
43.8613

■ 63.4842, 66.0903,  
56.3191

■ 68.3699, 71.6854,  
70.8227

# Harmonies

## Analogous

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



51.7748, 34.6471, 10.7350



40.6295, 34.6471, 4.7185



29.3945, 34.6471, 4.0790

# Triad

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



40.6295, 34.6471, 4.7185



16.2710, 34.6471, 49.2461



48.3920, 34.6471, 105.0762

# Complementary

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



40.6295, 34.6471, 4.7185



17.7175, 13.3594, 73.5957

# 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.



36.7404, 34.6471, 133.4244



40.6295, 34.6471, 4.7185



19.3240, 34.6471, 91.2285

# Square

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



40.6295, 34.6471, 4.7185



16.8633, 34.6471, 20.6984



26.2722, 34.6471, 127.2951



56.8990, 34.6471, 62.1946



# Rectangle

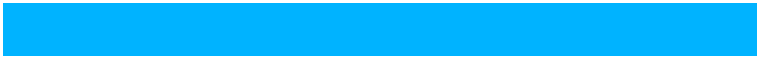
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



40.6295, 34.6471, 4.7185



23.4862, 34.6471, 5.9323



26.2722, 34.6471, 127.2951



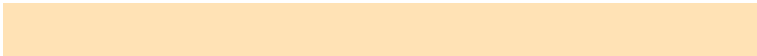
44.6191, 34.6471, 117.4634

# Sweetspot

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



40.6303, 34.6489, 4.7191



76.7159, 78.8588, 54.9209



33.4497, 17.1074, 12.1305



15.9437, 16.2933, 10.4629



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.



40.6303, 34.6489, 4.7191



52.8222, 44.4245, 5.7907



52.1310, 67.2429, 10.4042



14.3932, 15.0723, 14.4574



23.0856, 19.6090, 2.5682



1.6868, 1.5324, 0.2069



# Inverse Universe

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



17.7175, 13.3594, 73.5957



22.6880, 16.4961, 96.5960



14.2718, 5.8685, 72.3314



13.3945, 14.1281, 17.4087



9.9954, 7.4604, 41.9615



0.7784, 0.6883, 2.9371



# Previews

## White Background



This preview shows how the XYZ color 40.6295, 34.6471, 4.7185 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 40.6295, 34.6471, 4.7185 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 40.6295, 34.6471, 4.7185**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.6295, 34.6471, 4.7185.



This preview shows how white text looks on a background with the XYZ color 40.6295, 34.6471,



# 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

40.6295, 34.6471, 4.7185

### Protanopia

31.5024, 34.8886, 5.6461

### Deuteranopia

35.4237, 34.6898, 4.8288



## Tritanopia

45.4655, 34.5535, 28.6993

# Trichromacy



## Original Color

40.6295, 34.6471, 4.7185

## Protanomaly

34.3335, 34.3585, 5.2377

## Deuteranomaly

37.3086, 34.7207, 4.7928

## Tritanomaly

42.5890, 34.1884, 14.2519

# Monochromacy



## Original Color

40.6295, 34.6471, 4.7185

## Achromatopsia

28.9890, 30.4987, 33.2131

## Achromatomaly

30.8436, 30.9046, 15.8948

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.6295, 34.6471, 4.7185 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(226, 139, 6)` looks like.

```
.text, #text, p{  
    color:rgb(226, 139, 6)  
}
```

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(226, 139, 6) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 139, 6) }
```

## Border

The CSS property to change the border of an element to XYZ 40.6295, 34.6471, 4.7185 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(226, 139, 6) }
```



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

```
.border{ border-color:rgb(226, 139, 6) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 139, 6)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 139, 6); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 139, 6);  
box-shadow:4px 4px 4px 4px rgb(226, 139,  
6) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.6295, 34.6471, 4.7185 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 139, 6) }
```

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

```
.background{ background-color: rgb(226,  
139, 6) }
```

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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