

# Converting Colors

XYZ(38.1620, 31.1372, 4.0361)

Have a look what the booklet for  
XYZ(38.1620, 31.1372, 4.0361)  
contains.

<b>XYZ(38.1561, 31.1285, 4.0261)</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(38.1561, 31.1285,  
4.0261)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DF8001
RGB	223, 128, 1
RGB Percent	87%, 50%, 0%
CMY	0.1255, 0.4980, 0.9960
CMYK	0.00, 0.43, 1.00, 0.13
HSL	34°, 99%, 44%
HSV	34°, 100%, 87%
XYZ	38.1561, 31.1285, 4.0261
YIQ	141.9270, 97.3870, -19.3570

# Conversions

## Conversions Part 2

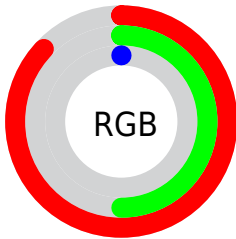
Format	Color
<a href="#">RYB</a>	<a href="#">167, 223, 1</a>
Decimal	<a href="#">14647297</a>
CIELab	<a href="#">62.62, 29.98, 68.91</a>
CIELCh	<a href="#">63, 75.155, 66.486</a>
Yxy	<a href="#">31.1285, 0.5205, 0.4246</a>
Android (android.graphics.Color)	<a href="#">4292837377</a> (0xFFDF8001)
YUV	<a href="#">141.9270, -69.4770, 71.1010</a>
Hunter-Lab	<a href="#">55.7929, 24.4364, 34.7766</a>

# Details

The XYZ color **38.1561, 31.1285, 4.0261** 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 **17.5150, 13.7005, 71.5329**, and the grayscale version is **25.9229, 27.2729, 29.7001**.

A 20% lighter version of the original color is **58.9012, 54.7627, 13.4271**, and **17.4223, 13.0258, 1.5960** is the 20% darker color. If you saturate the color by 10%, you get **38.0950, 31.0154, 3.9787**, and if you desaturate by 10%, it is **39.6129, 33.7988, 5.2630**.

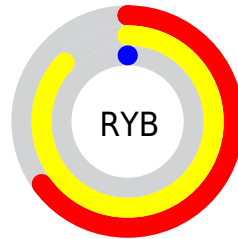
# Distribution



Red (87%)

Green (50%)

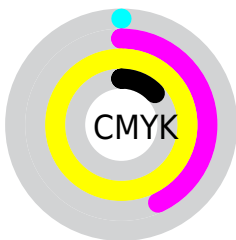
Blue (0%)



Red (65%)

Yellow (87%)

Blue (0%)

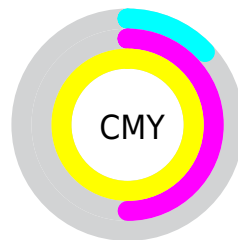


Cyan (0%)

Magenta (43%)

Yellow (100%)

Black (13%)



Cyan (13%)

Magenta (50%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.1561, 31.1285, 4.0261 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 38.1561, 31.1285, 4.0261 by changing the saturation by 10% instead.




 38.1561, 31.1285,  
4.0261


 38.1561, 31.1285,  
4.0261


329.5584,  
307.1299, 148.5150


 26.2816, 20.6967,  
1.6397


 71.6497, 61.4423,  
14.0699


 17.1682, 12.9025,  
0.3189


 93.9995, 82.0932,  
22.5644

 10.4506, 7.3614,  
0.0000


 120.5719,  
106.9191, 33.9319

 5.7632, 3.6892,  
0.0000

 151.7320,  
136.3046, 48.5911

 2.7409, 1.5012,  
0.0000

 187.8454,  
170.6341, 66.9605


 1.0183, 0.2896,  
0.0000


 229.2774,


 0.0000, 0.0000,


210.2918, 89.4586


0.0000


 276.3933,  
255.6623, 116.5039


 38.1561, 31.1285,  
4.0261


 38.1561, 31.1285,  
4.0261


 38.0950, 31.0154,  
3.9787

 39.6129, 33.7988,  
5.2630

 41.3647, 36.7780,  
7.4634

 43.4670, 40.0945,  
10.9025

 45.9540, 43.7663,  
15.7455

 48.8546, 47.8098,  
22.1318

■ 52.1948, 52.2393,  
30.1838

■ 55.9977, 57.0684,  
40.0114

■ 60.2848, 62.3099,  
51.7151

■ 65.0761, 67.9754,  
65.3878

# Harmonies

## Analogous

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



48.4040, 31.1285, 10.2075



38.1561, 31.1285, 4.0261



27.4181, 31.1285, 3.0697

# Triad

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



38.1561, 31.1285, 4.0261



14.0206, 31.1285, 40.6699



42.9042, 31.1285, 102.4313

# Complementary

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



38.1561, 31.1285, 4.0261



17.5150, 13.7005, 71.5329

# 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.



31.8668, 31.1285, 126.4397



38.1561, 31.1285, 4.0261



16.4139, 31.1285, 79.6862

# Square

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



38.1561, 31.1285, 4.0261



14.9577, 31.1285, 16.0094



22.4072, 31.1285, 116.3297



51.5578, 31.1285, 61.7294



# Rectangle

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



38.1561, 31.1285, 4.0261



21.6469, 31.1285, 4.3323



22.4072, 31.1285, 116.3297



39.2634, 31.1285, 113.5395

# Sweetspot

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



38.1568, 31.1302, 4.0267



75.5178, 76.8776, 53.2418



32.6094, 16.5767, 12.8405



15.6825, 15.8490, 10.1357



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.



38.1568, 31.1302, 4.0267



51.5006, 41.7812, 5.3502



52.4617, 66.2161, 10.0450



14.3549, 14.9958, 14.4447



22.5137, 18.4654, 2.3776



1.6488, 1.4565, 0.1942



# Inverse Universe

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



17.5150, 13.7005, 71.5329



23.5313, 18.1826, 96.8771



13.5406, 5.4581, 70.1514



13.4319, 14.2029, 17.4212



10.3674, 8.2044, 42.0856



0.8061, 0.7437, 2.9463



# Previews

## White Background



This preview shows how the XYZ color 38.1561, 31.1285, 4.0261 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 38.1561, 31.1285, 4.0261 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 38.1561, 31.1285, 4.0261**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.1561, 31.1285, 4.0261.



This preview shows how white text looks on a background with the XYZ color 38.1561, 31.1285,



# 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

38.1561, 31.1285, 4.0261

### Protanopia

28.1320, 31.1581, 5.1037

### Deuteranopia

31.7115, 31.1530, 4.3418



## Tritanopia

42.4880, 31.2461, 24.2138

# Trichromacy



## Original Color

38.1561, 31.1285, 4.0261

## Protanomaly

31.1240, 30.6186, 4.6174

## Deuteranomaly

33.7171, 30.8735, 4.1821

## Tritanomaly

39.8466, 30.6970, 11.8076

# Monochromacy



## Original Color

38.1561, 31.1285, 4.0261

## Achromatopsia

25.7108, 27.0498, 29.4572

## Achromatomaly

27.6286, 27.3046, 13.7117

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.1561, 31.1285, 4.0261 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(223, 128, 1)` looks like.

```
.text, #text, p{  
    color:rgb(223, 128, 1)  
}
```

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(223, 128, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 128, 1) }
```

## Border

The CSS property to change the border of an element to XYZ 38.1561, 31.1285, 4.0261 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(223, 128, 1) }
```



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

```
.border{ border-color:rgb(223, 128, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 128, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 128, 1); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 128, 1);  
box-shadow:4px 4px 4px 4px rgb(223, 128,  
1) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.1561, 31.1285, 4.0261 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 128, 1) }
```

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

```
.background{ background-color: rgb(223,  
128, 1) }
```

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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