

# Converting Colors

XYZ(37.6688, 30.8840, 4.5919)

Have a look what the booklet for  
XYZ(37.6688, 30.8840, 4.5919)  
contains.

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# Color

**XYZ(37.6555, 30.8575,  
4.5875)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DD8013
RGB	221, 128, 19
RGB Percent	87%, 50%, 7%
CMY	0.1333, 0.4980, 0.9255
CMYK	0.00, 0.42, 0.91, 0.13
HSL	32°, 84%, 47%
HSV	32°, 91%, 87%
XYZ	37.6555, 30.8575, 4.5875
YIQ	143.3810, 90.4170, -14.1830

# Conversions

## Conversions Part 2

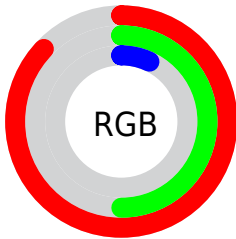
Format	Color
<a href="#">RYB</a>	<a href="#">191, 221, 19</a>
Decimal	<a href="#">14516243</a>
CIELab	<a href="#">62.39, 29.35, 65.56</a>
CIElCh	<a href="#">62, 71.827, 65.882</a>
Yxy	<a href="#">30.8575, 0.5151, 0.4221</a>
Android (android.graphics.Color)	<a href="#">4292706323</a> ( <a href="#">0xFFDD8013</a> )
YUV	<a href="#">143.3810, -61.3198, 68.0719</a>
Hunter-Lab	<a href="#">55.5495, 23.7886, 33.9883</a>

# Details

The XYZ color **37.6555, 30.8575, 4.5875** 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 **19.1137, 16.9468, 70.6697**, and the grayscale version is **26.4744, 27.8531, 30.3321**.

A 20% lighter version of the original color is **59.1752, 54.8723, 14.8697**, and **17.0225, 12.8197, 1.5773** is the 20% darker color. If you saturate the color by 10%, you get **36.4460, 28.6269, 3.6046**, and if you desaturate by 10%, it is **39.3351, 33.7618, 6.5510**.

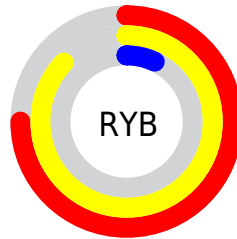
# Distribution



Red (87%)

Green (50%)

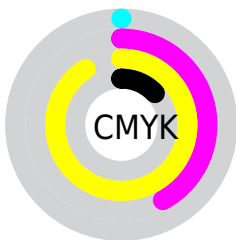
Blue (7%)



Red (75%)

Yellow (87%)

Blue (7%)

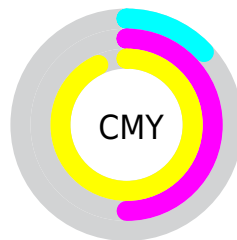


Cyan (0%)

Magenta (42%)

Yellow (91%)

Black (13%)



Cyan (13%)

Magenta (50%)


Yellow (93%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6555, 30.8575, 4.5875 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 37.6555, 30.8575, 4.5875 by changing the saturation by 10% instead.





 37.6555, 30.8575,  
4.5875


 37.6555, 30.8575,  
4.5875

327.4463,  
305.8813, 154.5473


 25.8914, 20.4904,  
1.9529


 70.8871, 61.0156,  
15.3435

 16.8747, 12.7520,  
0.5261


 93.0854, 81.5755,  
24.3020


 10.2399, 7.2580,  
0.0000


 119.4924,  
106.3016, 36.2055

 5.6218, 3.6240,  
0.0000

 150.4735,  
135.5785, 51.4726

 2.6550, 1.4655,  
0.0000

 186.3941,  
169.7905, 70.5217

 0.9740, 0.2643,  
0.0000

 227.6195,

 0.0000, 0.0000,

209.3220, 93.7716

0.0000

274.5151,  
254.5575, 121.6406

37.6555, 30.8575,  
4.5875

37.6555, 30.8575,  
4.5875

36.4460, 28.6269,  
3.6046

39.3351, 33.7618,  
6.5510

41.3672, 37.0246,  
9.6989

43.7877, 40.6675,  
14.1998

46.6266, 44.7079,  
20.1939

49.9103, 49.1617,  
27.8039

■ 53.6625, 54.0437,  
37.1396

■ 57.9053, 59.3675,  
48.3009

■ 62.6590, 65.1463,  
61.3802

■ 67.9427, 71.3924,  
76.4635

# Harmonies

## Analogous

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



47.2445, 30.8575, 10.9658



37.6555, 30.8575, 4.5875



27.4539, 30.8575, 3.5182

# Triad

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



37.6555, 30.8575, 4.5875



14.3801, 30.8575, 39.3923



41.7149, 30.8575, 98.3740

# Complementary

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



37.6555, 30.8575, 4.5875



19.1137, 16.9468, 70.6697

# 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.



31.2879, 30.8575, 120.0207



37.6555, 30.8575, 4.5875



16.6345, 30.8575, 75.7916

# Square

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



37.6555, 30.8575, 4.5875



15.3554, 30.8575, 16.1186



22.3306, 30.8575, 110.0419



49.9276, 30.8575, 60.5860



# Rectangle

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



37.6555, 30.8575, 4.5875



21.8985, 30.8575, 4.7747



22.3306, 30.8575, 110.0419



38.2751, 30.8575, 108.5126

# Sweetspot

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



37.6562, 30.8591, 4.5881



76.5877, 77.7491, 57.5085



33.0473, 17.0363, 17.2489



15.9736, 16.1107, 11.2205



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.



37.6562, 30.8591, 4.5881



50.2719, 39.3237, 4.9406



53.7831, 66.0957, 10.5394



13.6352, 14.2097, 13.7497



21.2869, 16.8593, 2.1322



1.4649, 1.2639, 0.1668



# Inverse Universe

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



19.1137, 16.9468, 70.6697



24.4574, 20.0349, 97.1858



13.7034, 5.9025, 68.8231



12.8302, 13.6001, 16.6010



10.4377, 8.7449, 40.8762



0.7618, 0.7376, 2.6767



# Previews

## White Background



This preview shows how the XYZ color 37.6555, 30.8575, 4.5875 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 37.6555, 30.8575, 4.5875 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 37.6555, 30.8575, 4.5875**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6555, 30.8575, 4.5875.



This preview shows how white text looks on a background with the XYZ color 37.6555, 30.8575,

4.5875.

# 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

37.6555, 30.8575, 4.5875

### Protanopia

27.9923, 31.0771, 5.5004

### Deuteranopia

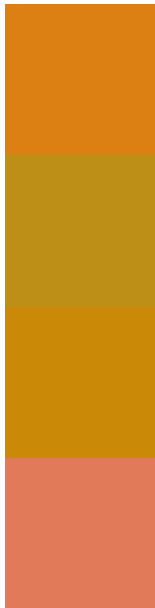
31.3083, 30.7213, 4.2797



## Tritanopia

41.8571, 30.9209, 24.1843

# Trichromacy



## Original Color

37.6555, 30.8575, 4.5875

## Protanomaly

30.9634, 30.5256, 5.0707

## Deuteranomaly

33.4840, 30.7489, 4.3713

## Tritanomaly

39.4615, 30.4709, 13.0342

# Monochromacy



## Original Color

37.6555, 30.8575, 4.5875

## Achromatopsia

26.1081, 27.4677, 29.9124

## Achromatomaly

28.0877, 27.7167, 15.4248

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6555, 30.8575, 4.5875 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(221, 128, 19)` looks like.

```
.text, #text, p{  
    color:rgb(221, 128, 19)  
}
```

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(221, 128, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 128, 19) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6555, 30.8575, 4.5875 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(221, 128, 19) }
```



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

```
.border{ border-color:rgb(221, 128, 19) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 128, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 128, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 128, 19);  
box-shadow:4px 4px 4px 4px rgb(221, 128,  
19) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.6555, 30.8575, 4.5875 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 128, 19) }
```

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

```
.background{ background-color: rgb(221,  
128, 19) }
```

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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