

# Converting Colors

XYZ(36.6480, 30.9586, 12.0414)

Have a look what the booklet for  
XYZ(36.6480, 30.9586, 12.0414)  
contains.

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# Color

**XYZ(36.6382, 30.9606,  
12.0276)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D38452
RGB	211, 132, 82
RGB Percent	83%, 52%, 32%
CMY	0.1726, 0.4823, 0.6784
CMYK	0.00, 0.37, 0.61, 0.17
HSL	23°, 59%, 57%
HSV	23°, 61%, 83%
XYZ	36.6382, 30.9606, 12.0276
YIQ	149.9210, 63.1340, 1.1980

# Conversions

## Conversions Part 2

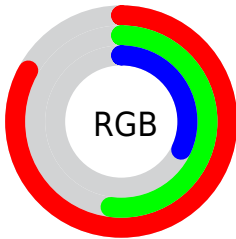
Format	Color
R <sub>Y</sub> B	211, 164, 82
Decimal	13861970
CIE Lab	62.47, 25.64, 39.34
CIE LCh	62, 46.955, 56.907
Yxy	30.9606, 0.4601, 0.3888
Android (android.graphics.Color)	4292052050 (0xFFD38452)
YUV	149.9210, -33.4851, 53.5663
Hunter-Lab	55.6423, 20.1612, 26.1335

# Details

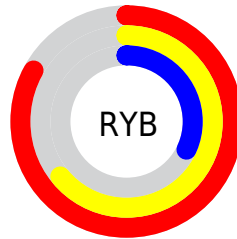
The XYZ color **36.6382, 30.9606, 12.0276** is a dark color, and the websafe version is hex **FF9966**. The color can be described as middle muted orange. A complement of this color would be **27.9816, 31.9850, 66.3266**, and the grayscale version is **29.0755, 30.5896, 33.3121**.

A 20% lighter version of the original color is **63.0325, 58.0713, 30.0770**, and **16.2549, 12.8255, 3.1322** is the 20% darker color. If you saturate the color by 10%, you get **34.3104, 27.3986, 7.8811**, and if you desaturate by 10%, it is **39.4313, 35.0586, 17.5474**.

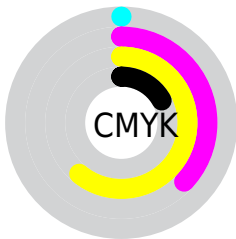
# Distribution



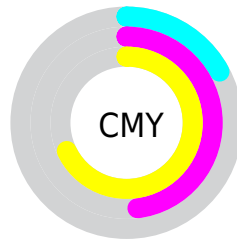
- Red (83%)
- Green (52%)
- Blue (32%)



- Red (83%)
- Yellow (64%)
- Blue (32%)



- Cyan (0%)
- Magenta (37%)
- Yellow (61%)
- Black (17%)




- Cyan (17%)
- Magenta (48%)
- Yellow (68%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.6382, 30.9606, 12.0276 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 36.6382, 30.9606, 12.0276 by changing the saturation by 10% instead.





 36.6382, 30.9606,  
12.0276

 36.6382, 30.9606,  
12.0276


323.1243,  
306.3568, 215.5723


 25.0999, 20.5688,  
6.6397


 69.3334, 61.1780,  
30.2105

 16.2806, 12.8092,  
3.1628


 91.2211, 81.7725,  
43.8426


 9.8150, 7.2973,  
1.1784


 117.2892,  
106.5367, 61.0599

 5.3378, 3.6487,  
0.0000

 147.9031,  
135.8549, 82.2808

 2.4836, 1.4791,  
0.0000

 183.4282,  
170.1117, 107.9240

 0.8870, 0.2739,  
0.0000

224.2299,

 0.0000, 0.0000,

209.6913, 138.4079

0.0000

270.6734,  
254.9782, 174.1512

■ 36.6382, 30.9606,  
12.0276

■ 36.6382, 30.9606,  
12.0276

■ 34.3104, 27.3986,  
7.8811

■ 39.4313, 35.0586,  
17.5474

■ 32.4144, 24.3426,  
4.9800

■ 42.7155, 39.7109,  
24.5493

■ 30.9146, 21.7663,  
3.1748

■ 46.5171, 44.9409,  
33.1328

■ 29.8654, 19.8520,  
2.2577

■ 50.8596, 50.7687,  
43.3885

■ 55.7650, 57.2138,  
55.3998

■ 61.2540, 64.2944,  
69.2447

■ 67.3462, 72.0280,  
84.9964

■ 74.0601, 80.4315,  
102.7240

■ 78.5714, 88.3841,  
107.5264

# Harmonies

## Analogous

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



41.7638, 30.9606, 20.1918



36.6382, 30.9606, 12.0276



30.0933, 30.9606, 9.4068

# Triad

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



36.6382, 30.9606, 12.0276



18.8080, 30.9606, 31.8523



35.3286, 30.9606, 75.6929

# Complementary

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



36.6382, 30.9606, 12.0276



27.9816, 31.9850, 66.3266

# 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.



28.7708, 30.9606, 82.3039



36.6382, 30.9606, 12.0276



19.7959, 30.9606, 52.2187

# Square

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



36.6382, 30.9606, 12.0276



20.3079, 30.9606, 17.9496



23.2303, 30.9606, 72.4919



40.9343, 30.9606, 56.7341



# Rectangle

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



36.6382, 30.9606, 12.0276



26.0051, 30.9606, 10.0467



23.2303, 30.9606, 72.4919



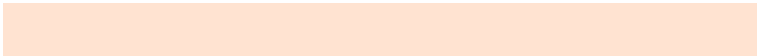
33.1369, 30.9606, 79.6746

# Sweetspot

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



36.6389, 30.9622, 12.0282



80.2007, 80.7478, 71.7454



36.3629, 22.4763, 36.3950



16.7116, 16.6817, 14.2566



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.



36.6389, 30.9622, 12.0282



51.8357, 40.7401, 10.7374



48.1154, 53.9152, 15.8537



12.1791, 12.5490, 12.3923



18.1165, 12.1659, 1.3934



1.0891, 0.8325, 0.1033



# Inverse Universe

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



27.9816, 31.9850, 66.3266



37.3944, 42.2812, 100.7979



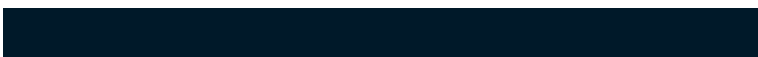
19.5171, 15.0559, 63.5051



11.7576, 12.6054, 15.0571



11.9521, 12.5509, 38.9851



0.7441, 0.8533, 2.2051



# Previews

## White Background



This preview shows how the XYZ color 36.6382, 30.9606, 12.0276 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

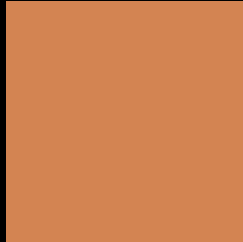
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.6382, 30.9606, 12.0276 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

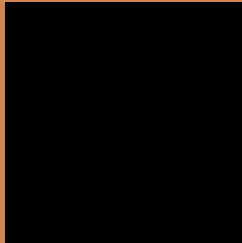
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 36.6382, 30.9606, 12.0276**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.6382, 30.9606, 12.0276.



This preview shows how white text looks on a background with the XYZ color 36.6382, 30.9606,



# 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

36.6382, 30.9606, 12.0276

### Protanopia

28.7573, 31.2847, 13.9741

### Deuteranopia

31.6342, 30.9501, 11.7038



## Tritanopia

39.8584, 31.1181, 26.8273

# Trichromacy



## Original Color

36.6382, 30.9606, 12.0276

## Protanomaly

31.0965, 30.8678, 13.1232

## Deuteranomaly

33.3317, 30.9375, 11.8042

## Tritanomaly

38.6031, 30.9954, 20.4711

# Monochromacy



## Original Color

36.6382, 30.9606, 12.0276

## Achromatopsia

28.9890, 30.4987, 33.2131

## Achromatomaly

30.5374, 29.8962, 23.5631

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.6382, 30.9606, 12.0276 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(211, 132, 82)` looks like.

```
.text, #text, p{  
    color:rgb(211, 132, 82)  
}
```

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(211, 132, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(211, 132, 82) }
```

## Border

The CSS property to change the border of an element to XYZ 36.6382, 30.9606, 12.0276 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(211, 132, 82) }
```



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

```
.border{ border-color:rgb(211, 132, 82) }
```

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

Here you see how a box with a 4 pixel `rgb(211, 132, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(211, 132, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(211, 132, 82);  
box-shadow:4px 4px 4px 4px rgb(211, 132,  
82) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.6382, 30.9606, 12.0276 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(211, 132, 82) }
```

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

```
.background{ background-color: rgb(211,  
132, 82) }
```

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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