

# Converting Colors

XYZ(37.5477, 26.1553, 3.1298)

Have a look what the booklet for  
XYZ(37.5477, 26.1553, 3.1298)  
contains.

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# Color

**XYZ(37.5231, 26.1077,  
3.1190)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E76402
RGB	231, 100, 2
RGB Percent	91%, 39%, 1%
CMY	0.0941, 0.6078, 0.9921
CMYK	0.00, 0.57, 0.99, 0.09
HSL	26°, 98%, 46%
HSV	26°, 99%, 91%
XYZ	37.5231, 26.1077, 3.1190
YIQ	127.9970, 109.5340, -2.7060

# Conversions

## Conversions Part 2

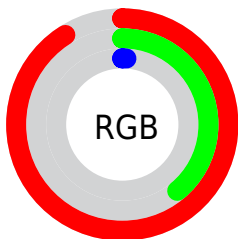
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	231, 173, 2
Decimal	15164418
CIE Lab	58.14, 47.23, 66.63
CIE LCh	58, 81.672, 54.670
Yxy	26.1077, 0.5621, 0.3911
Android (android.graphics.Color)	4293354498 (0xFFE76402)
YUV	127.9970, -62.1165, 90.3336
Hunter-Lab	51.0957, 41.6674, 32.1478

# Details

The XYZ color **37.5231, 26.1077, 3.1190** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed orange. A complement of this color would be **22.8356, 22.5561, 78.7507**, and the grayscale version is **20.7002, 21.7782, 23.7165**.

A 20% lighter version of the original color is **53.8087, 44.7765, 11.1169**, and **16.9529, 10.2485, 1.0846** is the 20% darker color. If you saturate the color by 10%, you get **37.4034, 25.8863, 3.0252**, and if you desaturate by 10%, it is **39.0612, 28.9194, 4.4489**.

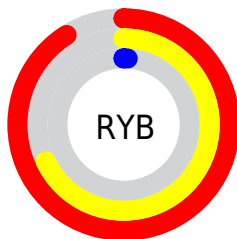
# Distribution



Red (91%)

Green (39%)

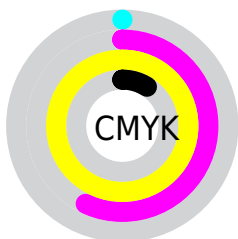
Blue (1%)



Red (91%)

Yellow (68%)

Blue (1%)

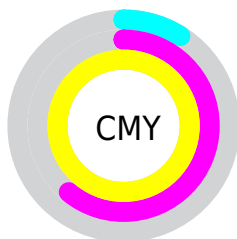


Cyan (0%)

Magenta (57%)

Yellow (99%)

Black (9%)



Cyan (9%)

Magenta (61%)


Yellow (99%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.5231, 26.1077, 3.1190 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 37.5231, 26.1077, 3.1190 by changing the saturation by 10% instead.





 37.5231, 26.1077,  
3.1190


 37.5231, 26.1077,  
3.1190

326.8861,  
283.3104, 137.8621


 25.7883, 16.9042,  
1.1557


 70.6852, 53.4486,  
11.9207


 16.7972, 10.1662,  
0.0000


 92.8432, 72.3549,  
19.5962

 10.1844, 5.5093,  
0.0000


 119.2063, 95.2642,  
30.0128

 5.5846, 2.5491,  
0.0000

 150.1399,  
122.5610, 43.5891

 2.6324, 0.9011,  
0.0000

 186.0093,  
154.6296, 60.7437


 0.9625, 0.0000,  
0.0000


 227.1799,


 0.0000, 0.0000,


191.8544, 81.8950


0.0000


 274.0171,  
234.6199, 107.4616


 37.5231, 26.1077,  
3.1190


 37.5231, 26.1077,  
3.1190


 37.4034, 25.8863,  
3.0252

 39.0612, 28.9194,  
4.4489

 41.0092, 32.2374,  
6.8795

 43.4288, 36.1016,  
10.6919

 46.3622, 40.5420,  
16.0669

 49.8456, 45.5855,  
23.1572

■ 53.9114, 51.2570,  
32.0973

■ 58.5894, 57.5797,  
43.0080

■ 63.9069, 64.5753,  
55.9997

■ 69.8893, 72.2647,  
71.1749

# Harmonies

## Analogous

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



46.4301, 26.1077, 11.2098



37.5231, 26.1077, 3.1190



26.6242, 26.1077, 1.3691

# Triad

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



37.5231, 26.1077, 3.1190



10.2827, 26.1077, 23.6598



33.6331, 26.1077, 112.2554

# Complementary

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



37.5231, 26.1077, 3.1190



22.8356, 22.5561, 78.7507

# 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.



23.0889, 26.1077, 124.5129



37.5231, 26.1077, 3.1190



11.2298, 26.1077, 57.7744

# Square

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



37.5231, 26.1077, 3.1190



12.3041, 26.1077, 7.1255



15.3582, 26.1077, 100.0790



43.7979, 26.1077, 73.0130



# Rectangle

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



37.5231, 26.1077, 3.1190



20.3014, 26.1077, 1.5833



15.3582, 26.1077, 100.0790



29.9515, 26.1077, 120.4337

# Sweetspot

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



37.5237, 26.1092, 3.1194



72.6802, 71.2024, 52.2960



37.3909, 18.7981, 24.7958



15.0123, 14.5085, 9.9123



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.



37.5237, 26.1092, 3.1194



46.7229, 32.2259, 3.7576



56.4882, 64.0382, 9.4409



14.8816, 15.3771, 15.0882



21.0867, 14.7475, 1.7352



1.6489, 1.2710, 0.1584

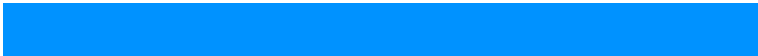


# Inverse Universe

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



22.8356, 22.5561, 78.7507



28.3083, 27.7365, 98.4694



14.7185, 6.3220, 76.0450



14.2638, 15.2491, 18.3359



12.8480, 12.7581, 44.1686



1.0412, 1.1263, 3.2945



# Previews

## White Background



This preview shows how the XYZ color 37.5231, 26.1077, 3.1190 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 37.5231, 26.1077, 3.1190 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 × Fail

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

**XYZ 37.5231, 26.1077, 3.1190**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.5231, 26.1077, 3.1190.



This preview shows how white text looks on a background with the XYZ color 37.5231, 26.1077,



# 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

37.5231, 26.1077, 3.1190

### Protanopia

23.7702, 26.3768, 4.5975

### Tritanopia

40.0982, 26.2220, 14.7523

# Trichromacy



## Original Color

37.5231, 26.1077, 3.1190

## Protanomaly

27.5547, 25.2705, 3.8773

## Tritanomaly

38.7126, 26.0595, 7.8401

# Monochromacy



## Original Color

37.5231, 26.1077, 3.1190

## Achromatopsia

20.5175, 21.5861, 23.5072

## Achromatomaly

23.5185, 21.5654, 10.9056

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.5231, 26.1077, 3.1190 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(231, 100, 2)` looks like.

```
.text, #text, p{  
    color:rgb(231, 100, 2)  
}
```

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(231, 100, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 100, 2) }
```

## Border

The CSS property to change the border of an element to XYZ 37.5231, 26.1077, 3.1190 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(231, 100, 2) }
```

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

```
.border{ border-color:rgb(231, 100, 2) }
```

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

Here you see how a box with a 4 pixel rgb(231, 100, 2) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 100, 2); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 100, 2);  
box-shadow:4px 4px 4px 4px rgb(231, 100,  
2) }
```



# Background

The CSS property to change the background color of an element to XYZ 37.5231, 26.1077, 3.1190 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 100, 2) }
```

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

```
.background{ background-color: rgb(231,  
100, 2) }
```

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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