

Converting Colors

XYZ(46.6621, 37.3948, 9.5980)

Have a look what the booklet for
XYZ(46.6621, 37.3948, 9.5980)
contains.

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Color

**XYZ(46.6318, 37.4244,
9.6163)**

Conversions

Conversions Part 1

Format	Color
Hex	F28A40
RGB	242, 138, 64
RGB Percent	95%, 54%, 25%
CMY	0.0510, 0.4588, 0.7490
CMYK	0.00, 0.43, 0.74, 0.05
HSL	25°, 87%, 60%
HSV	25°, 74%, 95%
XYZ	46.6318, 37.4244, 9.6163
YIQ	160.6600, 85.7380, -0.9660

Conversions

Conversions Part 2

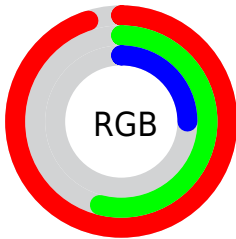
Format	Color
R _Y B	242, 191, 64
Decimal	15895104
CIE Lab	67.59, 34.03, 55.06
CIE LCh	68, 64.730, 58.281
Yxy	37.4244, 0.4978, 0.3995
Android (android.graphics.Color)	4294085184 (0xFFFF28A40)
YUV	160.6600, -47.6534, 71.3352
Hunter-Lab	61.1755, 29.0068, 33.5029

Details

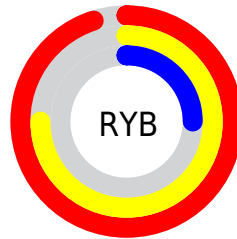
The XYZ color **46.6318, 37.4244, 9.6163** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **32.1428, 35.5036, 89.1625**, and the grayscale version is **33.9057, 35.6715, 38.8462**.

A 20% lighter version of the original color is **63.1841, 60.1971, 24.5087**, and **22.2689, 16.5350, 2.2189** is the 20% darker color. If you saturate the color by 10%, you get **44.1885, 33.4115, 6.1099**, and if you desaturate by 10%, it is **49.6394, 42.0889, 14.7841**.

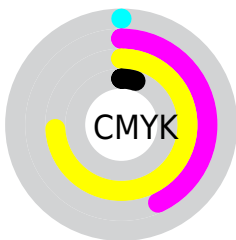
Distribution



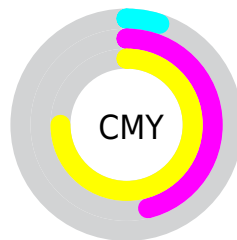
- Red (95%)
- Green (54%)
- Blue (25%)



- Red (95%)
- Yellow (75%)
- Blue (25%)



- Cyan (0%)
- Magenta (43%)
- Yellow (74%)
- Black (5%)





- Cyan (5%)
- Magenta (46%)
- Yellow (75%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 46.6318, 37.4244, 9.6163 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 46.6318, 37.4244, 9.6163 by changing the saturation by 10% instead.


 46.6318, 37.4244,
9.6163


 46.6318, 37.4244,
9.6163


364.0164,
335.1443, 198.2955


 32.9514, 25.5363,
5.0430


 84.3858, 71.2250,
25.6677

 22.2483, 16.4770,
2.2134


 109.1902, 93.9063,
37.9829


 14.1571, 9.8623,
0.6821


 138.4333,
120.9541, 53.7158

 8.3124, 5.3078,
0.0000

 172.4804,
152.7528, 73.2851

 4.3490, 2.4290,
0.0000

 211.6969,
189.6867, 97.1091

 1.9014, 0.8407,
0.0000

256.4481,

 0.5777, 0.0000,

232.1404, 125.6065

0.0000

307.0995,
280.4981, 159.1957

■ 0.0000, 0.0000,
0.0000

■ 46.6318, 37.4244,
9.6163

■ 46.6318, 37.4244,
9.6163

■ 44.1885, 33.4115,
6.1099

■ 49.6394, 42.0889,
14.7841

■ 42.2551, 30.0072,
4.0396


■ 53.2526, 47.4318,
21.7953


■ 41.2341, 28.1100,
3.2525


■ 57.5111, 53.4852,
30.8099


■ 62.4500, 60.2770,
41.9697

■ 68.1015, 67.8334,
55.4035

 74.4955, 76.1791,
71.2301

 81.6602, 85.3377,
89.5595

 89.2005, 95.1629,
108.2746

 90.4276, 97.6171,
108.6837

Harmonies

Analogous

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



55.2647, 37.4244, 19.8788



46.6318, 37.4244, 9.6163



36.1491, 37.4244, 6.8198

Triad

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



46.6318, 37.4244, 9.6163



19.6437, 37.4244, 39.1236



45.4486, 37.4244, 110.7422

Complementary

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



46.6318, 37.4244, 9.6163



32.1428, 35.5036, 89.1625

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.



34.9987, 37.4244, 123.9492



46.6318, 37.4244, 9.6163



21.2185, 37.4244, 72.6891

Square

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



46.6318, 37.4244, 9.6163



21.6287, 37.4244, 18.1626



26.4137, 37.4244, 107.5651



54.4968, 37.4244, 76.9670

Rectangle

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



46.6318, 37.4244, 9.6163



29.8900, 37.4244, 7.6882



26.4137, 37.4244, 107.5651



41.9292, 37.4244, 118.2730

Sweetspot

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



46.6327, 37.4264, 9.6170



77.7182, 77.7408, 64.8813



45.7828, 25.4767, 40.9328



16.2398, 16.1181, 12.9274



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.



46.6327, 37.4264, 9.6170



48.6770, 35.7467, 5.6031



64.2524, 72.6658, 15.4902



16.3127, 16.8386, 16.5401



22.2791, 15.3562, 1.7898



1.9494, 1.4694, 0.1809

Inverse Universe

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



32.1428, 35.5036, 89.1625



31.4709, 33.2408, 99.3652



21.1437, 13.5055, 85.4961



15.6646, 16.7633, 20.1316



13.8952, 14.0147, 47.1006



1.2539, 1.3618, 3.9510

Previews

White Background



This preview shows how the XYZ color 46.6318, 37.4244, 9.6163 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 46.6318, 37.4244, 9.6163 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 46.6318, 37.4244, 9.6163

Background



This preview shows how black text looks on a background with the XYZ color 46.6318, 37.4244, 9.6163.



This preview shows how white text looks on a background with the XYZ color 46.6318, 37.4244,

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

46.6318, 37.4244, 9.6163

Protanopia

34.1533, 37.4454, 11.5585

Deuteranopia

38.3000, 37.5515, 9.3672



Tritanopia

50.6489, 37.4222, 28.9798

Trichromacy



Original Color

46.6318, 37.4244, 9.6163

Protanomaly

37.6974, 36.7097, 10.7290

Deuteranomaly

40.9621, 37.2097, 9.4381

Tritanomaly

48.9683, 37.3574, 19.9590

Monochromacy



Original Color

46.6318, 37.4244, 9.6163

Achromatopsia

33.8758, 35.6400, 38.8120

Achromatomaly

36.3923, 35.2360, 24.6218

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.6318, 37.4244, 9.6163 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(242, 138, 64)` looks like.

```
.text, #text, p{  
    color:rgb(242, 138, 64)  
}
```

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(242, 138, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(242, 138, 64) }
```

Border

The CSS property to change the border of an element to XYZ 46.6318, 37.4244, 9.6163 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(242, 138, 64) }
```


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

```
.border{ border-color:rgb(242, 138, 64) }
```

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

Here you see how a box with a 4 pixel `rgb(242, 138, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(242, 138, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(242, 138, 64);  
box-shadow:4px 4px 4px 4px rgb(242, 138,  
64) }
```

Background

The CSS property to change the background color of an element to XYZ 46.6318, 37.4244, 9.6163 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(242, 138, 64) }
```

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

```
.background{ background-color: rgb(242,  
138, 64) }
```

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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