

# Converting Colors

XYZ(47.9580, 34.4797, 4.8363)

Have a look what the booklet for  
XYZ(47.9580, 34.4797, 4.8363)  
contains.

<b>XYZ(47.9722, 34.5078, 4.8417)</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(47.9722, 34.5078,  
4.8417)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7715
RGB	255, 119, 21
RGB Percent	100%, 47%, 8%
CMY	0.0000, 0.5333, 0.9176
CMYK	0.00, 0.53, 0.92, 0.00
HSL	25°, 100%, 54%
HSV	25°, 92%, 100%
XYZ	47.9722, 34.5078, 4.8417
YIQ	148.4920, 112.5140, -1.6460

# Conversions

## Conversions Part 2

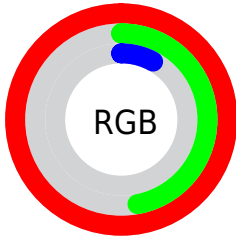
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 190, 21
Decimal	16742165
CIE Lab	65.36, 47.39, 69.43
CIE LCh	65, 84.058, 55.683
Yxy	34.5078, 0.5494, 0.3952
Android (android.graphics.Color)	4294932245 (0xFFFF7715)
YUV	148.4920, -62.8536, 93.4075
Hunter-Lab	58.7433, 42.9695, 36.2336

# Details

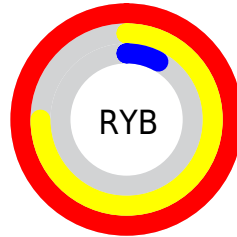
The XYZ color **47.9722, 34.5078, 4.8417** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark washed orange. A complement of this color would be **30.4153, 31.4917, 99.0825**, and the grayscale version is **28.5774, 30.0656, 32.7415**.

A 20% lighter version of the original color is **57.8240, 52.1113, 14.6002**, and **23.1834, 14.8436, 1.6432** is the 20% darker color. If you saturate the color by 10%, you get **46.4767, 31.7339, 3.6757**, and if you desaturate by 10%, it is **50.2442, 38.4639, 7.4133**.

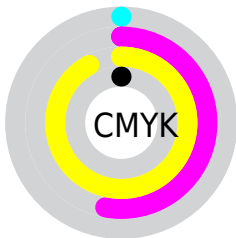
# Distribution



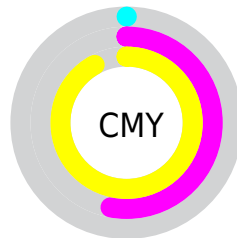
- Red (100%)
- Green (47%)
- Blue (8%)



- Red (100%)
- Yellow (75%)
- Blue (8%)



- Cyan (0%)
- Magenta (53%)
- Yellow (92%)
- Black (0%)




- Cyan (0%)
- Magenta (53%)
- Yellow (92%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.9722, 34.5078, 4.8417 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 47.9722, 34.5078, 4.8417 by changing the saturation by 10% instead.





 47.9722, 34.5078,  
4.8417


 47.9722, 34.5078,  
4.8417


369.2663,  
322.3904, 157.1660


 34.0160, 23.2840,  
2.0976


 86.3730, 66.7226,  
15.9086


 23.0689, 14.8033,  
0.6143


 111.5483, 88.4823,  
25.0685


 14.7653, 8.6815,  
0.0000


 141.1940,  
114.5228, 37.2041

 8.7401, 4.5340,  
0.0000

 175.6755,  
145.2284, 52.7339

 4.6278, 1.9765,  
0.0000

 215.3581,  
180.9836, 72.0764

 2.0631, 0.5938,  
0.0000

 260.6072,

 0.6690, 0.0000,

222.1728, 95.6503

0.0000

311.7882,  
269.1802, 123.8739

0.0000, 0.0000,  
0.0000

47.9722, 34.5078,  
4.8417

47.9722, 34.5078,  
4.8417

46.4767, 31.7339,  
3.6757

50.2442, 38.4639,  
7.4133

53.1014, 43.1115,  
11.6542

56.6014, 48.4932,  
17.8099

60.7928, 54.6454,  
26.0838

65.7187, 61.6015,  
36.6532

71.4182, 69.3923,  
49.6764

77.9273, 78.0471,  
65.2975

85.2794, 87.5934,  
83.6495

93.5061, 98.0575,  
104.8559

# Harmonies

## Analogous

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



58.9741, 34.5078, 15.2446



47.9722, 34.5078, 4.8417



34.6062, 34.5078, 2.4499

# Triad

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



47.9722, 34.5078, 4.8417



14.4545, 34.5078, 32.7145



44.1181, 34.5078, 137.2302

# Complementary

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



47.9722, 34.5078, 4.8417



30.4153, 31.4917, 99.0825

# 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.



31.0551, 34.5078, 153.1819



47.9722, 34.5078, 4.8417



15.8051, 34.5078, 75.1050

# Square

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



47.9722, 34.5078, 4.8417



16.9216, 34.5078, 10.9096



21.2184, 34.5078, 125.5214



56.3877, 34.5078, 89.9641



# Rectangle

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



47.9722, 34.5078, 4.8417



26.8277, 34.5078, 2.8458



21.2184, 34.5078, 125.5214



39.5956, 34.5078, 147.3303

# Sweetspot

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



47.9730, 34.5097, 4.8423



73.7712, 72.5466, 55.2426



47.6367, 24.2478, 34.2928



15.2147, 14.7560, 10.4646



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.



47.9730, 34.5097, 4.8423



46.4771, 31.7341, 3.6757



71.2267, 81.0172, 12.5935



18.6345, 19.2372, 18.8753



24.4249, 16.8610, 1.9672

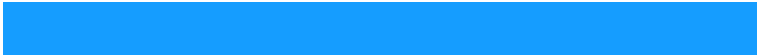


2.4832, 1.8518, 0.2266

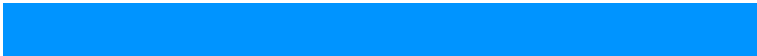


# Inverse Universe

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



30.4153, 31.4917, 99.0825



28.6710, 28.4620, 98.5903



19.1351, 8.9312, 95.3224



17.8800, 19.1317, 23.0004



15.1322, 15.1739, 51.5659



1.5814, 1.6935, 5.0568



# Previews

## White Background



This preview shows how the XYZ color 47.9722, 34.5078, 4.8417 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 47.9722, 34.5078, 4.8417 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 47.9722, 34.5078, 4.8417**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.9722, 34.5078, 4.8417.



This preview shows how white text looks on a background with the XYZ color 47.9722, 34.5078,



# 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

47.9722, 34.5078, 4.8417

### Protanopia

31.4219, 34.8296, 6.4332

### Deuteranopia

35.1540, 34.5507, 4.8161



## Tritanopia

50.5353, 34.4263, 21.7507

# Trichromacy



## Original Color

47.9722, 34.5078, 4.8417

## Protanomaly

36.0671, 33.6000, 5.6831

## Deuteranomaly

39.0952, 33.8549, 4.7038

## Tritanomaly

48.9710, 34.1616, 12.4003

# Monochromacy



## Original Color

47.9722, 34.5078, 4.8417

## Achromatopsia

28.1479, 29.6138, 32.2495

## Achromatomaly

31.8375, 29.4154, 16.5701

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.9722, 34.5078, 4.8417 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(255, 119, 21)` looks like.

```
.text, #text, p{  
    color:rgb(255, 119, 21)  
}
```

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(255, 119, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 119, 21) }
```

## Border

The CSS property to change the border of an element to XYZ 47.9722, 34.5078, 4.8417 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(255, 119, 21) }
```



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

```
.border{ border-color:rgb(255, 119, 21) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 119, 21)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 119, 21); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 119, 21);  
box-shadow:4px 4px 4px 4px rgb(255, 119,  
21) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.9722, 34.5078, 4.8417 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 119, 21) }
```

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

```
.background{ background-color: rgb(255,  
119, 21) }
```

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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