

# Converting Colors

XYZ(48.8334, 41.2455, 20.6184)

Have a look what the booklet for  
XYZ(48.8334, 41.2455, 20.6184)  
contains.

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# Color

**XYZ(48.9163, 41.3076,  
20.7242)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	ED9770
RGB	237, 151, 112
RGB Percent	93%, 59%, 44%
CMY	0.0706, 0.4078, 0.5608
CMYK	0.00, 0.36, 0.53, 0.07
HSL	19°, 78%, 68%
HSV	19°, 53%, 93%
XYZ	48.9163, 41.3076, 20.7242
YIQ	172.2680, 63.7750, 6.1030

# Conversions

## Conversions Part 2

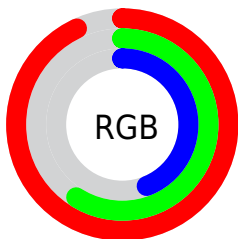
Format	Color
RYB	237, 169, 112
Decimal	15570800
CIELab	70.39, 28.32, 33.90
CIElCh	70, 44.173, 50.133
Yxy	41.3076, 0.4409, 0.3723
Android (android.graphics.Color)	4293760880 (0xFFED9770)
YUV	172.2680, -29.7121, 56.7700
Hunter-Lab	64.2710, 23.3811, 25.8716

# Details

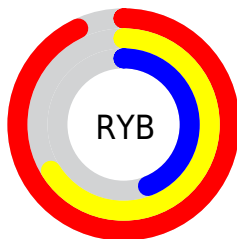
The XYZ color **48.9163, 41.3076, 20.7242** is a light color, and the websafe version is hex **FF9966**. A complement of this color would be **42.1611, 49.9449, 87.5387**, and the grayscale version is **39.4727, 41.5283, 45.2243**.

A 20% lighter version of the original color is **70.0121, 68.0829, 44.5732**, and **23.7191, 18.7475, 7.0711** is the 20% darker color. If you saturate the color by 10%, you get **45.3214, 35.9590, 13.8502**, and if you desaturate by 10%, it is **53.2234, 47.5251, 29.5495**.

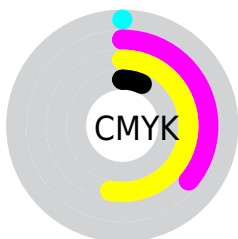
# Distribution



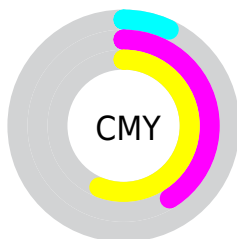
- Red (93%)
- Green (59%)
- Blue (44%)



- Red (93%)
- Yellow (66%)
- Blue (44%)



- Cyan (0%)
- Magenta (36%)
- Yellow (53%)
- Black (7%)



- Cyan (7%)
- Magenta (41%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9163, 41.3076, 20.7242 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 48.9163, 41.3076, 20.7242 by changing the saturation by 10% instead.



48.9163, 41.3076,  
20.7242

48.9163, 41.3076,  
20.7242

372.9351,  
351.6046, 268.5419

34.7673, 28.5595,  
12.7333

87.7686, 77.1506,  
45.5029

23.6494, 18.7479,  
7.1166

113.2027,  
101.0143, 63.1277

15.1971, 11.4882,  
3.4556

143.1291,  
129.3521, 84.8010

9.0450, 6.3962,  
1.3317

177.9134,  
162.5482, 110.9411

4.8279, 3.0875,  
0.0876

217.9207,  
200.9871, 141.9668

2.1804, 1.1776,  
0.0000

263.5166,

0.7324, 0.0433,

245.0532, 178.2964

0.0000

315.0663,  
295.1309, 220.3486

■ 0.0000, 0.0000,  
0.0000

■ 48.9163, 41.3076,  
20.7242

■ 48.9163, 41.3076,  
20.7242

■ 45.3214, 35.9590,  
13.8502

■ 53.2234, 47.5251,  
29.5495

■ 42.3929, 31.4322,  
8.7734

■ 58.2786, 54.6431,  
40.4593

■ 40.0840, 27.6849,  
5.3199

■ 64.1185, 62.6991,  
53.5778

■ 38.3386, 24.6674,  
3.2792

■ 70.7766, 71.7266,  
69.0185

■ 37.3707, 22.8960,  
2.4497

■ 78.2841, 81.7573,  
86.8872

■ 86.6708, 92.8216,  
107.2833

■ 88.7349, 96.7445,  
108.6045

# Harmonies

## Analogous

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



53.8955, 41.3076, 32.5617



48.9163, 41.3076, 20.7242



41.7050, 41.3076, 15.9501

# Triad

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



48.9163, 41.3076, 20.7242



27.0421, 41.3076, 38.4624



44.2699, 41.3076, 93.9797

# Complementary

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



48.9163, 41.3076, 20.7242



42.1611, 49.9449, 87.5387

# 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.



36.9157, 41.3076, 97.0413



48.9163, 41.3076, 20.7242



27.5499, 41.3076, 60.2041

# Square

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



48.9163, 41.3076, 20.7242



29.4842, 41.3076, 23.8938



30.9691, 41.3076, 83.2119



50.9919, 41.3076, 75.8124



# Rectangle

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



48.9163, 41.3076, 20.7242



36.8544, 41.3076, 15.9663



30.9691, 41.3076, 83.2119



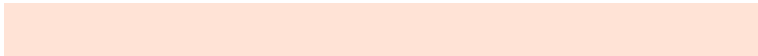
41.7715, 41.3076, 96.9874

# Sweetspot

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



48.9173, 41.3097, 20.7250



80.8535, 81.0260, 75.1305



51.0862, 33.7399, 58.1577



16.9554, 16.8681, 15.2667



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.



48.9173, 41.3097, 20.7250



53.3223, 42.1667, 16.0008



61.3931, 66.2613, 24.8836



15.4489, 15.8209, 15.7582



20.5061, 12.7065, 1.3718



1.6933, 1.1638, 0.1354



# Inverse Universe

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



42.1611, 49.9449, 87.5387



44.5023, 53.2186, 102.5344



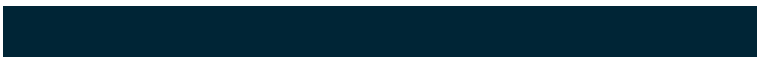
30.9141, 27.4509, 83.7897



15.0982, 16.2828, 19.2694



15.6229, 17.8928, 46.3732



1.3119, 1.5753, 3.6698



# Previews

## White Background



This preview shows how the XYZ color 48.9163, 41.3076, 20.7242 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

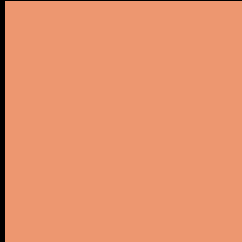
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.9163, 41.3076, 20.7242 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

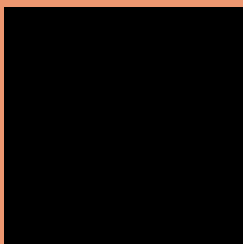
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.9163, 41.3076, 20.7242**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.9163, 41.3076, 20.7242.



This preview shows how white text looks on a background with the XYZ color 48.9163, 41.3076,

20.7242.

# 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

48.9163, 41.3076, 20.7242

### Protanopia

38.4534, 41.3246, 24.0389

### Deuteranopia

42.2279, 41.4243, 20.2380



## Tritanopia

52.0613, 41.1764, 36.6564

# Trichromacy



## Original Color

48.9163, 41.3076, 20.7242

## Protanomaly

41.7223, 40.8381, 22.8231

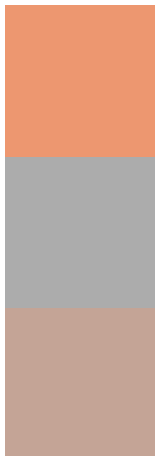
## Deuteranomaly

44.5987, 41.3275, 20.3782

## Tritanomaly

50.7639, 41.1116, 30.0707

# Monochromacy



## Original Color

48.9163, 41.3076, 20.7242

## Achromatopsia

39.2122, 41.2543, 44.9259

## Achromatomaly

41.5454, 40.4887, 34.4796

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.9163, 41.3076, 20.7242 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(237, 151, 112)` looks like.

```
.text, #text, p{  
    color:rgb(237, 151, 112)  
}
```

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(237, 151, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 151, 112) }
```

## Border

The CSS property to change the border of an element to XYZ 48.9163, 41.3076, 20.7242 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(237, 151, 112) }
```



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

```
.border{ border-color:rgb(237, 151, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(237, 151, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 151, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 151, 112);  
box-shadow:4px 4px 4px 4px rgb(237, 151,  
112) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.9163, 41.3076, 20.7242 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 151, 112) }
```

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

```
.background{ background-color: rgb(237,  
151, 112) }
```

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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