

# Converting Colors

XYZ(48.1625, 44.8883, 28.3560)

Have a look what the booklet for  
XYZ(48.1625, 44.8883, 28.3560)  
contains.

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# Color

**XYZ(48.1766, 44.8605,  
28.3101)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DEA785
RGB	222, 167, 133
RGB Percent	87%, 65%, 52%
CMY	0.1294, 0.3451, 0.4784
CMYK	0.00, 0.25, 0.40, 0.13
HSL	23°, 57%, 70%
HSV	23°, 40%, 87%
XYZ	48.1766, 44.8605, 28.3101
YIQ	179.5690, 43.6940, 1.0860

# Conversions

## Conversions Part 2

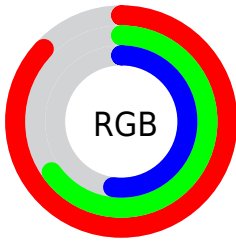
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	222, 188, 133
Decimal	14591877
CIE Lab	72.80, 15.90, 25.45
CIE LCh	73, 30.011, 58.005
Yxy	44.8605, 0.3970, 0.3697
Android (android.graphics.Color)	4292781957 (0xFFDEA785)
YUV	179.5690, -22.9585, 37.2120
Hunter-Lab	66.9780, 11.1818, 21.8240

# Details

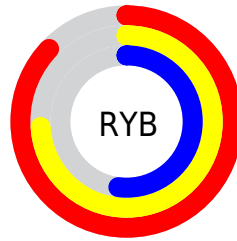
The XYZ color **48.1766, 44.8605, 28.3101** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **40.8403, 46.2253, 75.8771**, and the grayscale version is **43.2551, 45.5077, 49.5579**.

A 20% lighter version of the original color is **76.2242, 77.0477, 57.3086**, and **23.2091, 20.8853, 10.9916** is the 20% darker color. If you saturate the color by 10%, you get **44.4209, 39.5497, 20.2743**, and if you desaturate by 10%, it is **52.5253, 50.8384, 38.1436**.

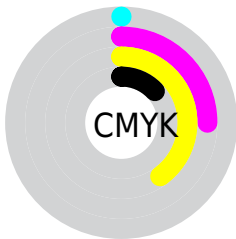
# Distribution



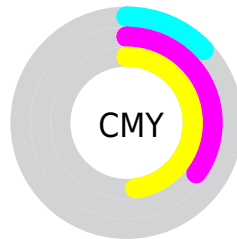
- Red (87%)
- Green (65%)
- Blue (52%)



- Red (87%)
- Yellow (74%)
- Blue (52%)



- Cyan (0%)
- Magenta (25%)
- Yellow (40%)
- Black (13%)




- Cyan (13%)
- Magenta (35%)
- Yellow (48%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.1766, 44.8605, 28.3101 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 48.1766, 44.8605, 28.3101 by changing the saturation by 10% instead.





 48.1766, 44.8605,  
28.3101


 48.1766, 44.8605,  
28.3101


370.0627,  
366.2083, 307.9042


 34.1786, 31.3476,  
18.3185


 86.6754, 82.5110,  
58.0082

 23.1944, 20.8637,  
11.0071


 111.9069,  
107.4174, 78.5518

 14.8586, 13.0244,  
5.9574


 141.6136,  
136.8904, 103.4497

 8.8059, 7.4453,  
2.7508

176.1609,  
171.3144, 133.1206

 4.6709, 3.7421,  
0.9688

215.9140,  
211.0738, 167.9829

 2.0882, 1.5304,  
0.0000

261.2385,

 0.6828, 0.3100,

256.5530, 208.4553

0.0000

312.4996,  
308.1363, 254.9562

0.0000, 0.0000,  
0.0000

48.1766, 44.8605,  
28.3101

48.1766, 44.8605,  
28.3101

44.4209, 39.5497,  
20.2743

52.5253, 50.8384,  
38.1436

41.2261, 34.8749,  
13.9224

57.4903, 57.5004,  
49.8738

38.5614, 30.8116,  
9.1314

63.0978, 64.8707,  
63.5955

36.3916, 27.3309,  
5.7601

69.3712, 72.9704,  
79.3964

34.6758, 24.4010,  
3.6414

76.3327, 81.8195,  
97.3588

■ 33.3586, 21.9984,  
2.4879

■ 82.1468, 90.6948,  
107.7840

■ 83.9342, 94.2696,  
108.3798

# Harmonies

## Analogous

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



52.1210, 44.8605, 36.5615



48.1766, 44.8605, 28.3101



42.9887, 44.8605, 25.3952

# Triad

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



48.1766, 44.8605, 28.3101



33.3799, 44.8605, 47.8522



47.5234, 44.8605, 78.8487

# Complementary

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



48.1766, 44.8605, 28.3101



40.8403, 46.2253, 75.8771

# 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.



42.2903, 44.8605, 83.5432



48.1766, 44.8605, 28.3101



34.3822, 44.8605, 63.6122

# Square

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



48.1766, 44.8605, 28.3101



34.6856, 44.8605, 35.1520



37.5421, 44.8605, 77.4805



51.7228, 44.8605, 65.7004



# Rectangle

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



48.1766, 44.8605, 28.3101



39.6130, 44.8605, 26.3040



37.5421, 44.8605, 77.4805



45.8144, 44.8605, 81.5721

# Sweetspot

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



48.1777, 44.8626, 28.3110



84.7707, 86.7072, 83.0740



47.7372, 35.9952, 52.7851



17.9222, 18.2681, 17.2336



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.



48.1777, 44.8626, 28.3110



61.6396, 55.3296, 29.4766



57.4376, 63.3823, 31.3976



14.1344, 14.5547, 14.3712



19.9138, 13.2655, 1.5109



1.4649, 1.0888, 0.1329

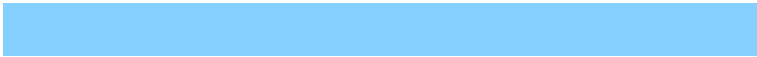


# Inverse Universe

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



40.8403, 46.2253, 75.8771



50.2728, 57.4000, 103.0374



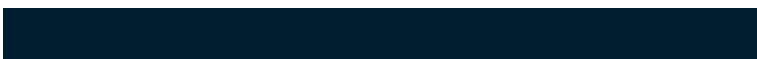
32.9632, 30.4711, 73.2514



13.6538, 14.6467, 17.4951



13.2707, 14.0110, 43.0533



1.0056, 1.1426, 3.0128



# Previews

## White Background



This preview shows how the XYZ color 48.1766, 44.8605, 28.3101 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

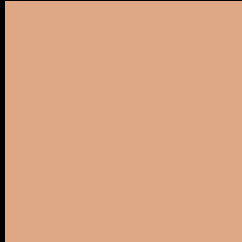
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.1766, 44.8605, 28.3101 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

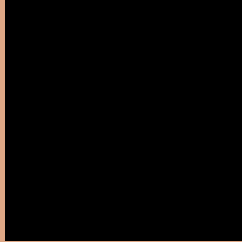
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.1766, 44.8605, 28.3101**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.1766, 44.8605, 28.3101.



This preview shows how white text looks on a background with the XYZ color 48.1766, 44.8605,



# 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

48.1766, 44.8605, 28.3101

### Protanopia

42.1934, 45.1515, 30.5360

### Deuteranopia

45.7814, 45.0199, 28.1066



## Tritanopia

51.7489, 44.7145, 45.9477

# Trichromacy



## Original Color

48.1766, 44.8605, 28.3101

## Protanomaly

44.1310, 44.9941, 29.6513

## Deuteranomaly

46.5639, 44.8625, 28.0349

## Tritanomaly

50.4065, 44.7051, 38.7731

# Monochromacy



## Original Color

48.1766, 44.8605, 28.3101

## Achromatopsia

43.3819, 45.6411, 49.7032

## Achromatomaly

44.4465, 44.9064, 40.9755

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.1766, 44.8605, 28.3101 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(222, 167, 133)` looks like.

```
.text, #text, p{  
    color:rgb(222, 167, 133)  
}
```

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(222, 167, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 167, 133) }
```

## Border

The CSS property to change the border of an element to XYZ 48.1766, 44.8605, 28.3101 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(222, 167, 133) }
```



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

```
.border{ border-color:rgb(222, 167, 133) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 167, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 167, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 167, 133);  
box-shadow:4px 4px 4px 4px rgb(222, 167,  
133) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.1766, 44.8605, 28.3101 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 167, 133) }
```

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

```
.background{ background-color: rgb(222,  
167, 133) }
```

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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