

# Converting Colors

XYZ(50.0803, 48.3381, 22.4430)

Have a look what the booklet for  
XYZ(50.0803, 48.3381, 22.4430)  
contains.

<b>XYZ(49.9892, 48.1831, 22.2883)</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(49.9892, 48.1831,  
22.2883)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E3AF71
RGB	227, 175, 113
RGB Percent	89%, 69%, 44%
CMY	0.1098, 0.3137, 0.5569
CMYK	0.00, 0.23, 0.50, 0.11
HSL	33°, 67%, 67%
HSV	33°, 50%, 89%
XYZ	49.9892, 48.1831, 22.2883
YIQ	183.4800, 50.8940, -8.2580

# Conversions

## Conversions Part 2

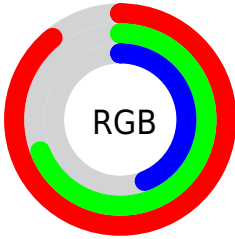
Format	Color
R <sub>Y</sub> B	209, 227, 113
Decimal	14921585
CIE Lab	74.94, 11.61, 38.92
CIE LCh	75, 40.620, 73.386
Yxy	48.1831, 0.4150, 0.4000
Android (android.graphics.Color)	4293111665 (0xFFE3AF71)
YUV	183.4800, -34.7466, 38.1670
Hunter-Lab	69.4140, 7.0739, 29.5523

# Details

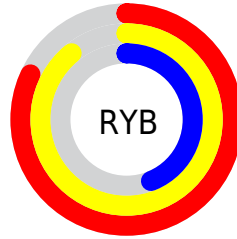
The XYZ color **49.9892, 48.1831, 22.2883** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **34.1297, 35.9656, 77.8162**, and the grayscale version is **45.4400, 47.8064, 52.0612**.

A 20% lighter version of the original color is **76.4197, 80.6068, 47.6073**, and **24.3423, 22.9598, 7.8513** is the 20% darker color. If you saturate the color by 10%, you get **46.9294, 43.8593, 15.7326**, and if you desaturate by 10%, it is **53.5255, 52.9484, 30.5806**.

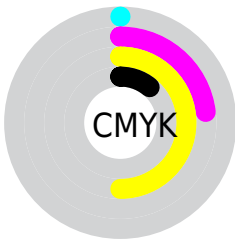
# Distribution



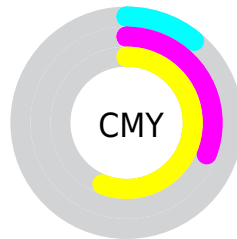
- Red (89%)
- Green (69%)
- Blue (44%)



- Red (82%)
- Yellow (89%)
- Blue (44%)



- Cyan (0%)
- Magenta (23%)
- Yellow (50%)
- Black (11%)




- Cyan (11%)
- Magenta (31%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9892, 48.1831, 22.2883 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 49.9892, 48.1831, 22.2883 by changing the saturation by 10% instead.





 49.9892, 48.1831,  
22.2883

 49.9892, 48.1831,  
22.2883


377.0764,  
379.5174, 277.0506

 35.6226, 33.9719,  
13.8686


 89.3508, 87.4770,  
48.1303


 24.3116, 22.8720,  
7.8916


 115.0765,  
113.3284, 66.3897

 15.6909, 14.4990,  
3.9389


 145.3192,  
143.8288, 88.7660

 9.3952, 8.4686,  
1.5919

 180.4444,  
179.3624, 115.6778

 5.0590, 4.3962,  
0.2850

220.8173,  
220.3136, 147.5436

 2.3170, 1.8976,  
0.0000

266.8034,

 0.8034, 0.5469,

267.0670, 184.7820

0.0000

318.7680,  
320.0068, 227.8115

■ 0.0000, 0.0000,  
0.0000

■ 49.9892, 48.1831,  
22.2883

■ 49.9892, 48.1831,  
22.2883

■ 46.9294, 43.8593,  
15.7326

■ 53.5255, 52.9484,  
30.5806

■ 44.3148, 39.9535,  
10.7815

■ 57.5599, 58.1637,  
40.7223

■ 42.1153, 36.4497,  
7.2885

■ 62.1166, 63.8456,  
52.8204

■ 40.2942, 33.3274,  
5.0784

■ 67.2172, 70.0079,  
66.9723

■ 38.8195, 30.6128,  
3.8629

■ 72.8819, 76.6633,  
83.2692

■ 79.1296, 83.8244,  
101.7967

■ 83.1360, 90.3659,  
107.6684

■ 85.4885, 95.0709,  
108.4525

# Harmonies

## Analogous

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



56.9422, 48.1831, 29.1437



49.9892, 48.1831, 22.2883



42.5791, 48.1831, 21.9540

# Triad

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



49.9892, 48.1831, 22.2883



33.2956, 48.1831, 62.4800



56.2888, 48.1831, 88.0248

# Complementary

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



49.9892, 48.1831, 22.2883



34.1297, 35.9656, 77.8162

# 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.



49.1722, 48.1831, 102.9665



49.9892, 48.1831, 22.2883



36.2095, 48.1831, 85.7509

# Square

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



49.9892, 48.1831, 22.2883



33.4637, 48.1831, 41.6470



41.8452, 48.1831, 102.0372



60.8389, 48.1831, 65.0066



# Rectangle

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



49.9892, 48.1831, 22.2883



38.4005, 48.1831, 25.2510



41.8452, 48.1831, 102.0372



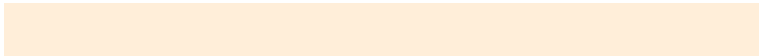
54.0861, 48.1831, 94.4046

# Sweetspot

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



49.9904, 48.1854, 22.2893



84.1768, 87.1467, 77.8597



44.4852, 30.9021, 39.7932



17.7189, 18.2914, 15.8404



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.



49.9904, 48.1854, 22.2893



61.0328, 57.0083, 20.3573



60.9428, 71.8501, 26.2797



15.0233, 15.6605, 15.1354



22.7578, 18.0897, 2.2922



1.7743, 1.5220, 0.2003

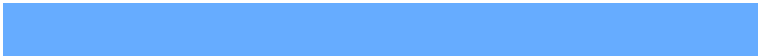


# Inverse Universe

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



34.1297, 35.9656, 77.8162



38.2406, 39.4671, 100.2102



27.0799, 21.1249, 75.3232



14.1216, 14.9647, 18.2885



11.0594, 9.1809, 43.5724



0.9091, 0.8622, 3.2505



# Previews

## White Background



This preview shows how the XYZ color 49.9892, 48.1831, 22.2883 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 49.9892, 48.1831, 22.2883 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

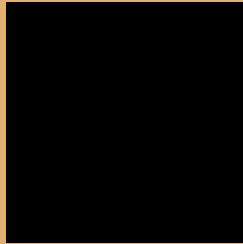
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.9892, 48.1831, 22.2883**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.9892, 48.1831, 22.2883.



This preview shows how white text looks on a background with the XYZ color 49.9892, 48.1831,



# 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

49.9892, 48.1831, 22.2883

### Protanopia

44.6472, 48.3998, 23.8186

### Deuteranopia

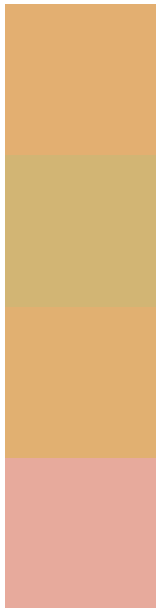
49.2464, 48.0902, 22.3096



## Tritanopia

55.6612, 48.2564, 49.5608

# Trichromacy



## Original Color

49.9892, 48.1831, 22.2883

## Protanomaly

46.2546, 48.0103, 23.3520

## Deuteranomaly

49.5573, 48.2505, 22.3241

## Tritanomaly

53.3305, 48.1387, 37.9334

# Monochromacy



## Original Color

49.9892, 48.1831, 22.2883

## Achromatopsia

45.0092, 47.3531, 51.5676

## Achromatomaly

46.0460, 47.2533, 39.0417

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9892, 48.1831, 22.2883 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(227, 175, 113)` looks like.

```
.text, #text, p{  
    color:rgb(227, 175, 113)  
}
```

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(227, 175, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 175, 113) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9892, 48.1831, 22.2883 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(227, 175, 113) }
```



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

```
.border{ border-color:rgb(227, 175, 113) }
```

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

Here you see how a box with a 4 pixel rgb(227, 175, 113) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 175, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 175, 113);  
box-shadow:4px 4px 4px 4px rgb(227, 175,  
113) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9892, 48.1831, 22.2883 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 175, 113) }
```

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

```
.background{ background-color: rgb(227,  
175, 113) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor