

# Converting Colors

XYZ(45.1198, 43.6590, 21.3419)

Have a look what the booklet for  
XYZ(45.1198, 43.6590, 21.3419)  
contains.

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# **Color**

**XYZ(45.2462, 43.7740,  
21.3937)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D8A870
RGB	216, 168, 112
RGB Percent	85%, 66%, 44%
CMY	0.1529, 0.3412, 0.5608
CMYK	0.00, 0.22, 0.48, 0.15
HSL	32°, 57%, 64%
HSV	32°, 48%, 85%
XYZ	45.2462, 43.7740, 21.3937
YIQ	175.9680, 46.5840, -7.2400

# Conversions

## Conversions Part 2

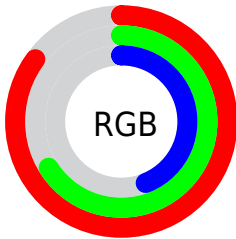
Format	Color
R <sub>Y</sub> B	201, 216, 112
Decimal	14198896
CIE Lab	72.08, 10.76, 35.59
CIE LCh	72, 37.178, 73.170
Yxy	43.7740, 0.4098, 0.3965
Android (android.graphics.Color)	4292388976 (0xFFD8A870)
YUV	175.9680, -31.5362, 35.1081
Hunter-Lab	66.1619, 6.2876, 27.1417

# Details

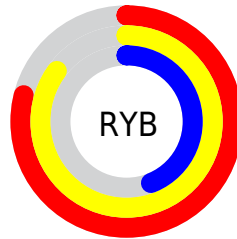
The XYZ color **45.2462, 43.7740, 21.3937** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **31.6471, 33.5430, 69.7722**, and the grayscale version is **41.3933, 43.5490, 47.4248**.

A 20% lighter version of the original color is **74.4192, 76.7520, 46.4896**, and **21.4407, 20.2206, 7.4755** is the 20% darker color. If you saturate the color by 10%, you get **42.4147, 39.8104, 15.2114**, and if you desaturate by 10%, it is **48.5094, 48.1394, 29.1440**.

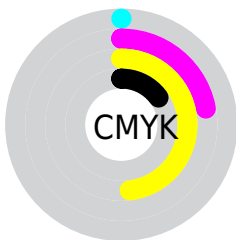
# Distribution



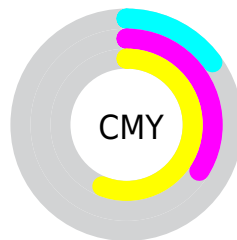
- Red (85%)
- Green (66%)
- Blue (44%)



- Red (79%)
- Yellow (85%)
- Blue (44%)



- Cyan (0%)
- Magenta (22%)
- Yellow (48%)
- Black (15%)




- Cyan (15%)
- Magenta (34%)
- Yellow (56%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.2462, 43.7740, 21.3937 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 45.2462, 43.7740, 21.3937 by changing the saturation by 10% instead.





 45.2462, 43.7740,  
21.3937

 45.2462, 43.7740,  
21.3937


358.5367,  
361.7852, 272.2129

 31.8535, 30.4929,  
13.2180


 82.3245, 80.8776,  
46.6311


 21.4046, 20.2130,  
7.4464


 106.7409,  
105.4688, 64.5299

 13.5342, 12.5500,  
3.6601


 135.5625,  
134.5988, 86.5069

 7.8770, 7.1194,  
1.4408

 169.1547,  
168.6521, 112.9806

 4.0675, 3.5369,  
0.1732

207.8828,  
208.0130, 144.3695

 1.7404, 1.4180,  
0.0000

252.1123,

 0.4813, 0.2300,

253.0659, 181.0921

0.0000

302.2085,  
304.1952, 223.5671

■ 0.0000, 0.0000,  
0.0000

■ 45.2462, 43.7740,  
21.3937

■ 45.2462, 43.7740,  
21.3937

■ 42.4147, 39.8104,  
15.2114

■ 48.5094, 48.1394,  
29.1440

■ 39.9877, 36.2276,  
10.4830

■ 52.2231, 52.9139,  
38.5602

■ 37.9390, 33.0117,  
7.0830


■ 56.4085, 58.1125,  
49.7352

■ 36.2374, 30.1447,  
4.8627


■ 61.0846, 63.7472,  
62.7543


■ 34.8386, 27.6033,  
3.6067


■ 66.2691, 69.8297,  
77.6970

 34.6009, 27.1630,  
3.4193

 71.9787, 76.3709,  
94.6385

 76.8804, 82.8419,  
106.5458

 79.8600, 88.8011,  
107.5390

 82.1289, 93.3389,  
108.2953

# Harmonies

## Analogous

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



51.1726, 43.7740, 27.4996



45.2462, 43.7740, 21.3937



38.8825, 43.7740, 21.0563

# Triad

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



45.2462, 43.7740, 21.3937



30.8028, 43.7740, 56.0918



50.5416, 43.7740, 78.0240

# Complementary

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



45.2462, 43.7740, 21.3937



31.6471, 33.5430, 69.7722

# 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.



44.4535, 43.7740, 90.5199



45.2462, 43.7740, 21.3937



33.3126, 43.7740, 75.8488

# Square

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



45.2462, 43.7740, 21.3937



30.9684, 43.7740, 38.2284



38.1662, 43.7740, 89.6354



54.4367, 43.7740, 58.5334



# Rectangle

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



45.2462, 43.7740, 21.3937



35.2700, 43.7740, 23.9547



38.1662, 43.7740, 89.6354



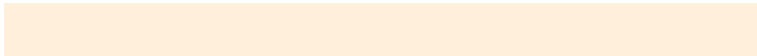
48.6584, 43.7740, 83.3801

# Sweetspot

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



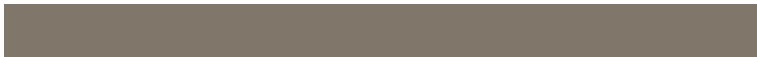
45.2473, 43.7761, 21.3946



84.7932, 87.8453, 79.7119



40.5053, 28.7445, 36.9166



17.8389, 18.4262, 16.2044



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.



45.2473, 43.7761, 21.3946



61.6154, 57.7562, 21.8381



54.7860, 64.3581, 24.8645



12.9716, 13.5174, 13.0862



20.5894, 16.2960, 2.0603



1.3243, 1.1477, 0.1517

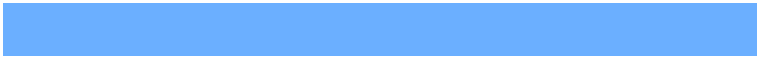


# Inverse Universe

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



31.6471, 33.5430, 69.7722



39.5246, 41.1503, 100.4674



25.3210, 20.2233, 67.5347



12.2102, 12.9437, 15.7924



10.1213, 8.5044, 39.5612



0.6928, 0.6775, 2.4136



# Previews

## White Background



This preview shows how the XYZ color 45.2462, 43.7740, 21.3937 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

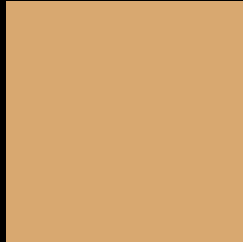
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.2462, 43.7740, 21.3937 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

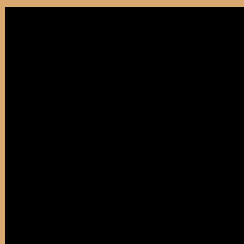
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 45.2462, 43.7740, 21.3937**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.2462, 43.7740, 21.3937.



This preview shows how white text looks on a background with the XYZ color 45.2462, 43.7740,



# 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

45.2462, 43.7740, 21.3937

### Protanopia

40.6128, 43.9117, 22.8583

### Deuteranopia

44.8442, 43.8419, 21.4280



## Tritanopia

49.9324, 43.5309, 45.3057

# Trichromacy



## Original Color

45.2462, 43.7740, 21.3937

## Protanomaly

42.3180, 43.9274, 22.4681

## Deuteranomaly

45.1369, 43.9929, 21.4417

## Tritanomaly

47.8965, 43.4888, 35.1479

# Monochromacy



## Original Color

45.2462, 43.7740, 21.3937

## Achromatopsia

41.2663, 43.4154, 47.2793

## Achromatomaly

42.1792, 43.2634, 36.2646

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.2462, 43.7740, 21.3937 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(216, 168, 112)` looks like.

```
.text, #text, p{  
    color:rgb(216, 168, 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(216, 168, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 168, 112) }
```

## Border

The CSS property to change the border of an element to XYZ 45.2462, 43.7740, 21.3937 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(216, 168, 112) }
```



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

```
.border{ border-color:rgb(216, 168, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(216, 168, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(216, 168, 112); -webkit-box-shadow:4px 4px 4px 4px rgb(216, 168, 112); box-shadow:4px 4px 4px 4px rgb(216, 168, 112) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.2462, 43.7740, 21.3937 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(216, 168, 112) }
```

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

```
.background{ background-color: rgb(216,  
168, 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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