

# Converting Colors

XYZ(44.8298, 48.2399, 45.6130)

Have a look what the booklet for  
XYZ(44.8298, 48.2399, 45.6130)  
contains.

<b>XYZ(44.9172, 48.3724, 45.4975)</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(44.9172, 48.3724,  
45.4975)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B9BAAB
RGB	185, 186, 171
RGB Percent	73%, 73%, 67%
CMY	0.2745, 0.2706, 0.3294
CMYK	0.01, 0.00, 0.08, 0.27
HSL	64°, 10%, 70%
HSV	64°, 8%, 73%
XYZ	44.9172, 48.3724, 45.4975
YIQ	183.9910, 4.2190, -4.8770

# Conversions

## Conversions Part 2

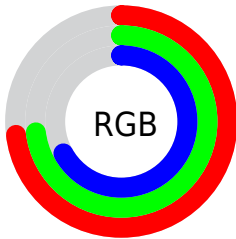
<b>Format</b>	<b>Color</b>
<b>RYB</b>	171, 186, 172
Decimal	12171947
CIELab	75.06, -3.04, 7.48
CIELCh	75, 8.070, 112.113
Yxy	48.3724, 0.3236, 0.3485
Android (android.graphics.Color)	4290362027 (0xFFB9BAAB)
YUV	183.9910, -6.4046, 0.8849
Hunter-Lab	69.5503, -6.4335, 9.8996

# Details

The XYZ color **44.9172, 48.3724, 45.4975** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **40.4410, 41.4430, 52.3248**, and the grayscale version is **45.5888, 47.9629, 52.2316**.

A 20% lighter version of the original color is **81.7552, 87.6960, 84.5696**, and **21.2330, 23.0125, 20.7755** is the 20% darker color. If you saturate the color by 10%, you get **42.9692, 47.5603, 36.7936**, and if you desaturate by 10%, it is **47.1200, 49.2899, 55.5178**.

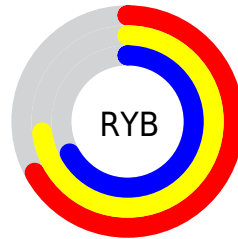
# Distribution



Red (73%)

Green (73%)

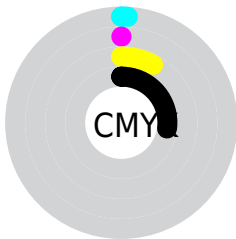
Blue (67%)



Red (67%)

Yellow (73%)

Blue (67%)

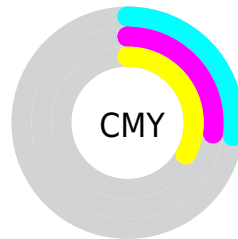


Cyan (1%)

Magenta (0%)

Yellow (8%)

Black (27%)



Cyan (27%)

Magenta (27%)

Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 44.9172, 48.3724, 45.4975 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 44.9172, 48.3724, 45.4975 by changing the saturation by 10% instead.



■ 44.9172, 48.3724,  
45.4975

■ 44.9172, 48.3724,  
45.4975

357.2275,  
380.2663, 385.0035

■ 31.5932, 34.1219,  
31.5037

■ 81.8340, 87.7586,  
84.7928

■ 21.2050, 22.9873,  
20.7210

106.1575,  
113.6631, 110.9314

■ 13.3873, 14.5841,  
12.7310

134.8782,  
144.2210, 141.9552

■ 7.7746, 8.5280,  
7.1150

168.3615,  
179.8168, 178.2830

■ 4.0016, 4.4346,  
3.4546

206.9727,  
220.8349, 220.3332

■ 1.7031, 1.9195,  
1.3312

251.0772,

■ 0.4582, 0.5601,

267.6595, 268.5243

0.0871

301.0403,  
320.6752, 323.2748

■ 0.0000, 0.0000,  
0.0000

■ 44.9172, 48.3724,  
45.4975

■ 44.9172, 48.3724,  
45.4975

■ 42.9692, 47.5603,  
36.7936

■ 47.1200, 49.2899,  
55.5178

■ 41.2617, 46.8430,  
29.3483

■ 49.5835, 50.3105,  
66.9027

■ 39.7849, 46.2184,  
23.1042

■ 52.3181, 51.4397,  
79.7018

■ 38.5269, 45.6815,  
17.9985

■ 55.3327, 52.6813,  
93.9615

■ 37.4745, 45.2273,  
13.9622

■ 57.1517, 53.4450,  
101.9114

■ 36.6133, 44.8498,  
10.9192

■ 57.4665, 53.6073,  
101.9262

■ 35.9270, 44.5425,  
8.7834

■ 57.7839, 53.7709,  
101.9410

■ 35.3963, 44.2978,  
7.4538

■ 58.1040, 53.9359,  
101.9560

■ 34.9911, 44.1036,  
6.7719

■ 58.4268, 54.1023,  
101.9711

# Harmonies

## Analogous

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



46.3667, 48.3724, 45.0269



44.9172, 48.3724, 45.4975



43.7744, 48.3724, 47.8374

# Triad

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



44.9172, 48.3724, 45.4975



44.2569, 48.3724, 59.3429



48.8432, 48.3724, 53.7916

# Complementary

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



44.9172, 48.3724, 45.4975



40.4410, 41.4430, 52.3248

# 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.



48.2512, 48.3724, 57.8161



44.9172, 48.3724, 45.4975



45.5885, 48.3724, 61.1310

# Square

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



44.9172, 48.3724, 45.4975



43.3989, 48.3724, 55.7863



47.0524, 48.3724, 60.5578



48.6542, 48.3724, 49.6707



# Rectangle

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



44.9172, 48.3724, 45.4975



43.3301, 48.3724, 50.2140



47.0524, 48.3724, 60.5578



48.7285, 48.3724, 55.2034

# Sweetspot

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



44.9185, 48.3745, 45.4985



83.7644, 88.6554, 93.1287



42.3545, 42.8857, 44.5742



18.4555, 19.5272, 20.5505



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



44.9185, 48.3745, 45.4985



80.6340, 87.3521, 78.9576



43.1569, 47.4664, 45.4161



9.6893, 10.4720, 9.6175



23.5156, 29.6590, 4.4854



0.8469, 1.0548, 0.1590



# Inverse Universe

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



40.4410, 41.4430, 52.3248



70.5505, 71.7420, 94.3306



42.1335, 42.3155, 52.4040



8.5753, 8.7474, 11.3159



6.0930, 2.4522, 31.4053

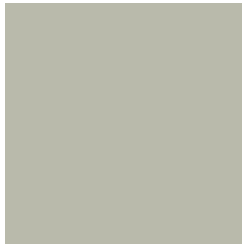


0.2337, 0.0962, 1.1080



# Previews

## White Background



This preview shows how the XYZ color 44.9172, 48.3724, 45.4975 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

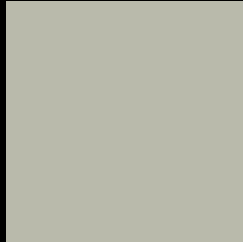
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 44.9172, 48.3724, 45.4975 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

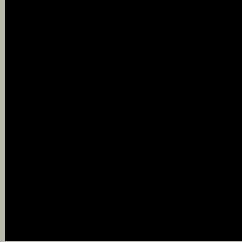
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

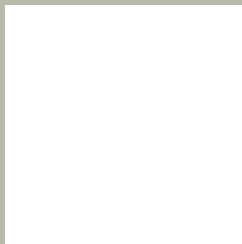
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 44.9172, 48.3724, 45.4975**

## **Background**



This preview shows how black text looks on a background with the XYZ color 44.9172, 48.3724, 45.4975.



This preview shows how white text looks on a background with the XYZ color 44.9172, 48.3724,

45.4975.

# 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

44.9172, 48.3724, 45.4975

### Protanopia

45.8820, 48.2596, 44.9270

### Deuteranopia

49.1953, 48.1233, 46.2310



## Tritanopia

47.7923, 48.3059, 59.6284

# Trichromacy



## Original Color

44.9172, 48.3724, 45.4975

## Protanomaly

45.5909, 48.4190, 44.9731

## Deuteranomaly

47.5235, 48.1684, 45.8224

## Tritanomaly

46.7496, 48.1892, 54.4144

# Monochromacy



## Original Color

44.9172, 48.3724, 45.4975

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

45.2528, 48.1429, 49.5553

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 44.9172, 48.3724, 45.4975 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(185, 186, 171)` looks like.

```
.text, #text, p{  
    color:rgb(185, 186, 171)  
}
```

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(185, 186, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(185, 186, 171) }
```

## Border

The CSS property to change the border of an element to XYZ 44.9172, 48.3724, 45.4975 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(185, 186, 171) }
```



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

```
.border{ border-color:rgb(185, 186, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(185, 186, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(185, 186, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(185, 186, 171);  
box-shadow:4px 4px 4px 4px rgb(185, 186,  
171) }
```

# Background

The CSS property to change the background color of an element to XYZ 44.9172, 48.3724, 45.4975 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(185, 186, 171) }
```

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

```
.background{ background-color: rgb(185,  
186, 171) }
```

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