

# Converting Colors

XYZ(48.7478, 56.6813, 49.8168)

Have a look what the booklet for  
XYZ(48.7478, 56.6813, 49.8168)  
contains.

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# Color

**XYZ(48.8232, 56.6607,  
49.9583)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B5CDB1
RGB	181, 205, 177
RGB Percent	71%, 80%, 69%
CMY	0.2902, 0.1961, 0.3059
CMYK	0.12, 0.00, 0.14, 0.20
HSL	111°, 22%, 75%
HSV	111°, 14%, 80%
XYZ	48.8232, 56.6607, 49.9583
YIQ	194.6320, -5.3160, -13.7960

# Conversions

## Conversions Part 2

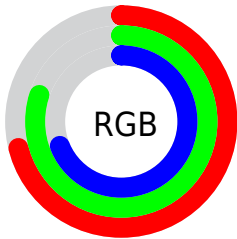
<b>Format</b>	<b>Color</b>
<b>RYB</b>	177, 205, 201
Decimal	11914673
CIELab	79.99, -13.31, 11.24
CIELCh	80, 17.419, 139.815
Yxy	56.6607, 0.3141, 0.3645
Android (android.graphics.Color)	4290104753 (0xFFB5CDB1)
YUV	194.6320, -8.6926, -11.9553
Hunter-Lab	75.2733, -15.9510, 13.3410

# Details

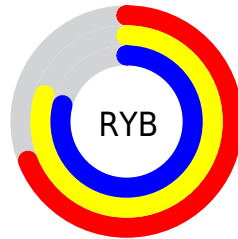
The XYZ color **48.8232, 56.6607, 49.9583** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **50.8312, 48.2711, 64.3987**, and the grayscale version is **51.7064, 54.3992, 59.2407**.

A 20% lighter version of the original color is **85.3930, 95.4077, 91.0056**, and **23.6068, 28.1776, 23.2634** is the 20% darker color. If you saturate the color by 10%, you get **43.0679, 53.9140, 39.8120**, and if you desaturate by 10%, it is **55.4083, 59.8030, 61.7482**.

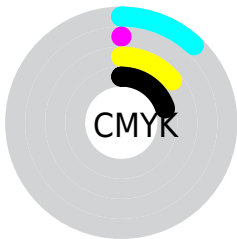
# Distribution



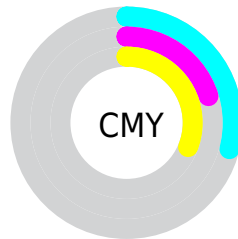
- Red (71%)
- Green (80%)
- Blue (69%)



- Red (69%)
- Yellow (80%)
- Blue (79%)



- Cyan (12%)
- Magenta (0%)
- Yellow (14%)
- Black (20%)



- Cyan (29%)
- Magenta (20%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8232, 56.6607, 49.9583 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 48.8232, 56.6607, 49.9583 by changing the saturation by 10% instead.



■ 48.8232, 56.6607,  
49.9583

■ 48.8232, 56.6607,  
49.9583

372.5744,  
412.1767, 403.2332

■ 34.6932, 40.7329,  
35.0093

■ 87.6311, 99.9699,  
91.5088

■ 23.5921, 28.1104,  
23.3864

113.0397,  
128.1202, 118.9473

■ 15.1544, 18.4089,  
14.6711

142.9386,  
161.1133, 151.3861

■ 9.0148, 11.2440,  
8.4449

177.6931,  
199.3338, 189.2438

■ 4.8080, 6.2312,  
4.2891

217.6686,  
243.1659, 232.9388

■ 2.1687, 2.9862,  
1.7852

263.2304,

■ 0.7261, 1.1245,

292.9942, 282.8896

0.4182

314.7439,  
349.2030, 339.5150

■ 0.0000, 0.0000,  
0.0000

■ 48.8232, 56.6607,  
49.9583

■ 48.8232, 56.6607,  
49.9583

■ 43.0679, 53.9140,  
39.8120

■ 55.4083, 59.8030,  
61.7482

■ 38.1050, 51.5403,  
31.2327

■ 62.8497, 63.3481,  
75.2463

■ 33.9007, 49.5254,  
24.1436

■ 71.1783, 67.3123,  
90.5179

■ 30.4173, 47.8519,  
18.4596

■ 79.7709, 71.4481,  
104.1942

■ 27.6137, 46.5004,  
14.0872

■ 81.1224, 72.1448,  
104.2575

■ 25.4445, 45.4500,  
10.9216

■ 23.8586, 44.6768,  
8.8417

■ 22.7966, 44.1535,  
7.7017

■ 22.3471, 43.9302,  
7.3016

# Harmonies

## Analogous

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



51.5813, 56.6607, 45.1217



48.8232, 56.6607, 49.9583



47.4331, 56.6607, 58.3128

# Triad

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



48.8232, 56.6607, 49.9583



52.6604, 56.6607, 82.9220



60.5104, 56.6607, 55.3233

# Complementary

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



48.8232, 56.6607, 49.9583



50.8312, 48.2711, 64.3987

# 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.



60.8303, 56.6607, 65.2032



48.8232, 56.6607, 49.9583



56.1931, 56.6607, 81.8955

# Square

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



48.8232, 56.6607, 49.9583



49.5834, 56.6607, 77.8048



59.2197, 56.6607, 75.1368



58.3637, 56.6607, 47.9762



# Rectangle

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



48.8232, 56.6607, 49.9583



47.4261, 56.6607, 65.0744



59.2197, 56.6607, 75.1368



60.8386, 56.6607, 58.4325

# Sweetspot

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



48.8247, 56.6631, 49.9595



90.3071, 97.7397, 100.3322



53.9551, 57.8362, 49.9156



19.1440, 20.8319, 21.1413



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

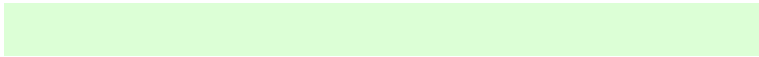


# Same Dimension

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



48.8247, 56.6631, 49.9595



77.4467, 91.6052, 77.3520



48.9128, 56.5915, 55.2483



11.2147, 12.6125, 11.9228



13.9598, 27.3719, 4.5475



0.7695, 1.4375, 0.2369



# Inverse Universe

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



50.8312, 48.2711, 64.3987



81.2757, 75.5859, 104.9136



50.7739, 48.3740, 58.4115



11.5239, 11.3194, 14.1479



18.0284, 8.5015, 36.6470



0.9743, 0.4614, 1.8926



# Previews

## White Background



This preview shows how the XYZ color 48.8232, 56.6607, 49.9583 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

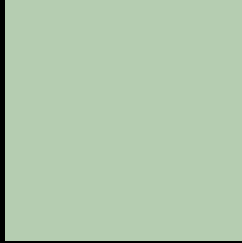
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.8232, 56.6607, 49.9583 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

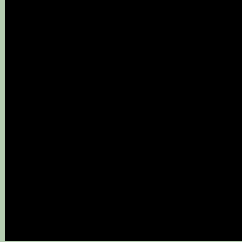
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.8232, 56.6607, 49.9583**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.8232, 56.6607, 49.9583.



This preview shows how white text looks on a background with the XYZ color 48.8232, 56.6607,



# 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

48.8232, 56.6607, 49.9583

### Protanopia

53.2412, 56.2150, 47.5796

### Deuteranopia

57.6095, 56.4042, 51.0308



## Tritanopia

53.4135, 56.7796, 72.4344

# Trichromacy



## Original Color

48.8232, 56.6607, 49.9583

## Protanomaly

51.5830, 56.3703, 48.2062

## Deuteranomaly

53.8890, 56.1444, 50.6445

## Tritanomaly

51.6707, 56.7724, 63.4932

# Monochromacy



## Original Color

48.8232, 56.6607, 49.9583

## Achromatopsia

51.8711, 54.5724, 59.4294

## Achromatomaly

50.7357, 55.4248, 55.6010

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8232, 56.6607, 49.9583 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(181, 205, 177)` looks like.

```
.text, #text, p{  
    color:rgb(181, 205, 177)  
}
```

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(181, 205, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(181, 205, 177) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8232, 56.6607, 49.9583 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(181, 205, 177) }
```



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

```
.border{ border-color:rgb(181, 205, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(181, 205, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(181, 205, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(181, 205, 177);  
box-shadow:4px 4px 4px 4px rgb(181, 205,  
177) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8232, 56.6607, 49.9583 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(181, 205, 177) }
```

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

```
.background{ background-color: rgb(181,  
205, 177) }
```

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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