

# Converting Colors

XYZ(45.4780, 59.3884, 49.4987)

Have a look what the booklet for  
XYZ(45.4780, 59.3884, 49.4987)  
contains.

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# Color

**XYZ(45.4996, 59.3963,  
49.6240)**

# Conversions

## Conversions Part 1

Format	Color
Hex	98D9AF
RGB	152, 217, 175
RGB Percent	60%, 85%, 69%
CMY	0.4039, 0.1490, 0.3137
CMYK	0.30, 0.00, 0.19, 0.15
HSL	141°, 46%, 72%
HSV	141°, 30%, 85%
XYZ	45.4996, 59.3963, 49.6240
YIQ	192.7770, -25.2580, -26.8420

# Conversions

## Conversions Part 2

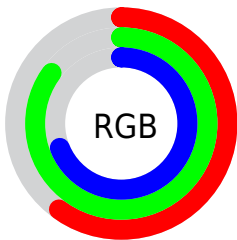
Format	Color
<a href="#">RYB</a>	<a href="#">152, 200, 217</a>
Decimal	<a href="#">10017199</a>
CIELab	<a href="#">81.51, -29.16, 14.21</a>
CIELCh	<a href="#">82, 32.439, 154.027</a>
Yxy	<a href="#">59.3963, 0.2945, 0.3844</a>
Android (android.graphics.Color)	<a href="#">4288207279</a> ( <a href="#">0xFF98D9AF</a> )
YUV	<a href="#">192.7770, -8.7641, -35.7614</a>
Hunter-Lab	<a href="#">77.0690, -29.4888, 15.7720</a>

# Details

The XYZ color **45.4996, 59.3963, 49.6240** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **49.5831, 41.1045, 56.3619**, and the grayscale version is **50.6193, 53.2555, 57.9952**.

A 20% lighter version of the original color is **76.1962, 90.6994, 89.0921**, and **21.5788, 29.8985, 23.0460** is the 20% darker color. If you saturate the color by 10%, you get **40.4974, 56.9702, 42.5708**, and if you desaturate by 10%, it is **51.3911, 62.2676, 57.4680**.

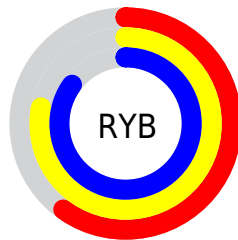
# Distribution



Red (60%)

Green (85%)

Blue (69%)



Red (60%)

Yellow (78%)

Blue (85%)

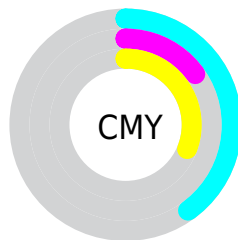


Cyan (30%)

Magenta (0%)

Yellow (19%)

Black (15%)



Cyan (40%)

Magenta (15%)


Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.4996, 59.3963, 49.6240 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 45.4996, 59.3963, 49.6240 by changing the saturation by 10% instead.





 45.4996, 59.3963,  
49.6240


 45.4996, 59.3963,  
49.6240


359.5430,  
422.3690, 401.8866

 32.0541, 42.9322,  
34.7456


 82.7021, 103.9534,  
91.0081

 21.5586, 29.8319,  
23.1850


 107.1897,  
132.8153, 118.3509

 13.6477, 19.7111,  
14.5236


136.0888,  
166.5785, 150.6856

 7.9561, 12.1852,  
8.3428

169.7647,  
205.6275, 188.4308

 4.1184, 6.8699,  
4.2242

208.5826,  
250.3466, 232.0049

 1.7694, 3.3809,  
1.7491

252.9081,

 0.4991, 1.3337,

301.1203, 281.8266

0.3941

303.1064,  
358.3330, 338.3143

■ 0.0000, 0.1670,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 45.4996, 59.3963,  
49.6240

■ 45.4996, 59.3963,  
49.6240

■ 40.4974, 56.9702,  
42.5708

■ 51.3911, 62.2676,  
57.4680

■ 36.3348, 54.9592,  
36.2795


■ 58.2087, 65.5978,  
66.1223


■ 32.9644, 53.3411,  
30.7255


■ 65.9930, 69.4088,  
75.6110


■ 30.3318, 52.0885,  
25.8810


■ 74.7807, 73.7191,  
85.9558


 28.3756, 51.1702,  
21.7167

 82.5526, 77.4874,  
97.0815

 27.0232, 50.5494,  
18.2008

 84.1040, 78.1080,  
105.2513

 26.1494, 50.1623,  
15.2971

 26.1460, 50.1608,  
15.2853

# Harmonies

## Analogous

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



49.4511, 59.3963, 38.3436



45.4996, 59.3963, 49.6240



44.3933, 59.3963, 67.3373

# Triad

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



45.4996, 59.3963, 49.6240



57.3774, 59.3963, 109.6647



67.9954, 59.3963, 45.9044

# Complementary

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



45.4996, 59.3963, 49.6240



49.5831, 41.1045, 56.3619

# 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.



70.5233, 59.3963, 62.0789



45.4996, 59.3963, 49.6240



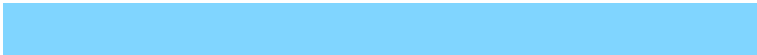
64.0895, 59.3963, 100.9241

# Square

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



45.4996, 59.3963, 49.6240



50.9211, 59.3963, 104.5028



69.0399, 59.3963, 82.4917



62.3747, 59.3963, 36.5179



# Rectangle

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



45.4996, 59.3963, 49.6240



45.3373, 59.3963, 81.1441



69.0399, 59.3963, 82.4917



69.2547, 59.3963, 50.5959

# Sweetspot

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



45.5012, 59.3988, 49.6253



84.8085, 94.9856, 96.4351



52.7948, 63.3980, 39.1608



17.8215, 20.1690, 20.2299



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

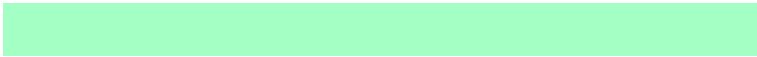


# Same Dimension

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



45.5012, 59.3988, 49.6253



60.8329, 83.2987, 64.9071



49.0567, 60.8210, 68.3485



13.0759, 14.6820, 14.8625



15.8723, 30.3815, 9.4929



1.0684, 1.9843, 0.8264



# Inverse Universe

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



49.5831, 41.1045, 56.3619



67.6271, 52.8272, 76.1040



46.3446, 39.8091, 39.3082



13.4086, 13.1925, 15.4128



20.2493, 10.1008, 16.2247

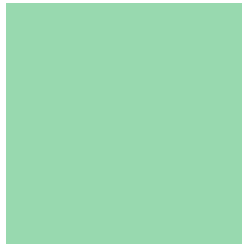


1.3522, 0.6705, 1.2637



# Previews

## White Background



This preview shows how the XYZ color 45.4996, 59.3963, 49.6240 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

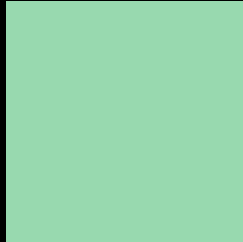
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.4996, 59.3963, 49.6240 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

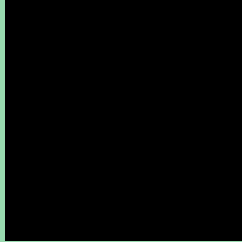
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

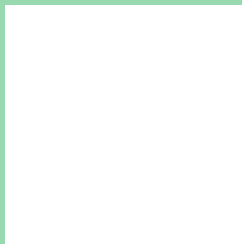
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 45.4996, 59.3963, 49.6240

## Background



This preview shows how black text looks on a background with the XYZ color 45.4996, 59.3963, 49.6240.



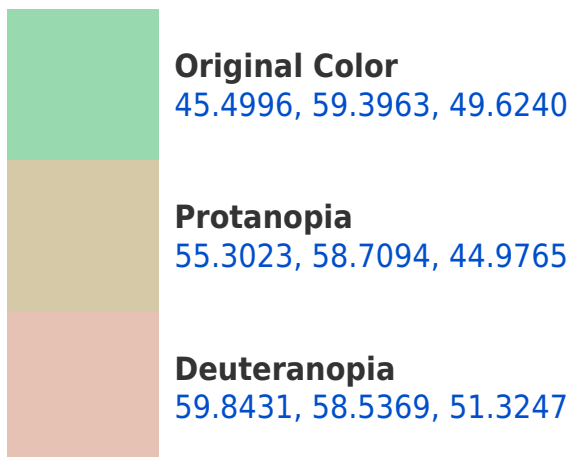
This preview shows how white text looks on a background with the XYZ color 45.4996, 59.3963,



# 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





## Tritanopia

51.8120, 59.3206, 81.3923

# Trichromacy



## Original Color

45.4996, 59.3963, 49.6240

## Protanomaly

51.0544, 58.6043, 46.6511

## Deuteranomaly

53.2438, 57.8729, 50.4838

## Tritanomaly

49.2800, 59.4117, 68.5448

# Monochromacy



## Original Color

45.4996, 59.3963, 49.6240

## Achromatopsia

50.6879, 53.3276, 58.0738

## Achromatomaly

48.3436, 55.2512, 54.5709

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.4996, 59.3963, 49.6240 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(152, 217, 175)` looks like.

```
.text, #text, p{  
    color:rgb(152, 217, 175)  
}
```

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(152, 217, 175) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(152, 217, 175) }
```

## Border

The CSS property to change the border of an element to XYZ 45.4996, 59.3963, 49.6240 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(152, 217, 175) }
```



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

```
.border{ border-color:rgb(152, 217, 175) }
```

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

Here you see how a box with a 4 pixel rgb(152, 217, 175) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(152, 217, 175); -webkit-box-  
shadow:4px 4px 4px 4px rgb(152, 217, 175);  
box-shadow:4px 4px 4px 4px rgb(152, 217,  
175) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.4996, 59.3963, 49.6240 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(152, 217, 175) }
```

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

```
.background{ background-color: rgb(152,  
217, 175) }
```

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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