

# Converting Colors

XYZ(49.8143, 61.6371, 44.7403)

Have a look what the booklet for  
XYZ(49.8143, 61.6371, 44.7403)  
contains.

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# Color

**XYZ(49.9645, 61.8073,  
44.8939)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B2D9A5
RGB	178, 217, 165
RGB Percent	70%, 85%, 65%
CMY	0.3020, 0.1490, 0.3529
CMYK	0.18, 0.00, 0.24, 0.15
HSL	105°, 41%, 75%
HSV	105°, 24%, 85%
XYZ	49.9645, 61.8073, 44.8939
YIQ	199.4110, -6.5520, -24.4400

# Conversions

## Conversions Part 2

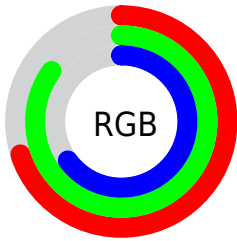
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">165, 217, 204</a>
Decimal	<a href="#">11721125</a>
CIELab	<a href="#">82.81, -22.38, 21.51</a>
CIElCh	<a href="#">83, 31.036, 136.138</a>
Yxy	<a href="#">61.8073, 0.3189, 0.3945</a>
Android (android.graphics.Color)	<a href="#">4289911205 (0xFFB2D9A5)</a>
YUV	<a href="#">199.4110, -16.9646, -18.7774</a>
Hunter-Lab	<a href="#">78.6176, -24.1373, 21.1753</a>

# Details

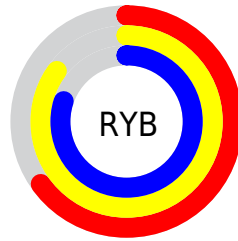
The XYZ color **49.9645, 61.8073, 44.8939** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **50.8839, 44.7591, 71.6064**, and the grayscale version is **54.6429, 57.4885, 62.6050**.

A 20% lighter version of the original color is **82.6100, 94.1797, 81.5346**, and **24.3584, 31.3929, 20.3984** is the 20% darker color. If you saturate the color by 10%, you get **44.6394, 59.2731, 35.1946**, and if you desaturate by 10%, it is **56.0712, 64.7093, 56.3817**.

# Distribution



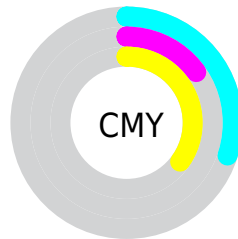
- Red (70%)
- Green (85%)
- Blue (65%)



- Red (65%)
- Yellow (85%)
- Blue (80%)



- Cyan (18%)
- Magenta (0%)
- Yellow (24%)
- Black (15%)



- Cyan (30%)
- Magenta (15%)
- Yellow (35%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9645, 61.8073, 44.8939 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 49.9645, 61.8073, 44.8939 by changing the saturation by 10% instead.





 49.9645, 61.8073,  
44.8939


 49.9645, 61.8073,  
44.8939


376.9814,  
431.2278, 382.4913

 35.6029, 44.8770,  
31.0315


 89.3144, 107.4470,  
83.8779

 24.2963, 31.3606,  
20.3642


 115.0334,  
136.9252, 109.8367

 15.6795, 20.8736,  
12.4734


145.2689,  
171.3548, 140.6646

 9.3871, 13.0316,  
6.9405

180.3863,  
211.1202, 176.7803

 5.0536, 7.4503,  
3.3470

220.7508,  
256.6058, 218.6023

 2.3138, 3.7453,  
1.2744

266.7280,

 0.8017, 1.5321,

308.1960, 266.5491

0.0407

318.6830,  
366.2752, 321.0392

■ 0.0000, 0.3112,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 49.9645, 61.8073,  
44.8939

■ 49.9645, 61.8073,  
44.8939

■ 44.6394, 59.2731,  
35.1946

■ 56.0712, 64.7093,  
56.3817

■ 40.0586, 57.0841,  
27.1900

■ 62.9850, 67.9851,  
69.7375

■ 36.1891, 55.2270,  
20.7839

■ 70.7362, 71.6503,  
85.0407

■ 32.9932, 53.6850,  
15.8687

■ 79.3522, 75.7174,  
102.3652

■ 30.4296, 52.4392,  
12.3237

■ 84.1041, 78.1082,  
105.2514

■ 28.4519, 51.4689,  
10.0094

■ 27.0062, 50.7498,  
8.7564

■ 26.3486, 50.4192,  
8.3432

# Harmonies

## Analogous

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



55.2483, 61.8073, 37.7894



49.9645, 61.8073, 44.8939



47.1390, 61.8073, 58.8648

# Triad

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



49.9645, 61.8073, 44.8939



55.7225, 61.8073, 109.6940



71.9660, 61.8073, 57.5837

# Complementary

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



49.9645, 61.8073, 44.8939



50.8839, 44.7591, 71.6064

# 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.



72.1172, 61.8073, 76.4997



49.9645, 61.8073, 44.8939



62.3883, 61.8073, 109.1712

# Square

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



49.9645, 61.8073, 44.8939



50.2890, 61.8073, 97.4517



68.5004, 61.8073, 96.1356



68.1017, 61.8073, 44.1099



# Rectangle

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



49.9645, 61.8073, 44.8939



46.8800, 61.8073, 71.3072



68.5004, 61.8073, 96.1356



72.4622, 61.8073, 63.4412

# Sweetspot

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



49.9661, 61.8100, 44.8953



87.5529, 96.4518, 94.2383



57.0022, 60.6568, 44.3018



18.6076, 20.5820, 19.9142



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

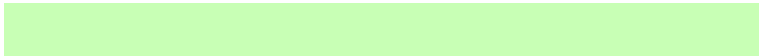


# Same Dimension

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



49.9661, 61.8100, 44.8953



67.8011, 87.0737, 56.9764



48.3677, 60.8422, 51.3153



13.1900, 14.7627, 13.8799



16.0312, 30.5619, 5.0541



1.1175, 2.0206, 0.3311



# Inverse Universe

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



50.8839, 44.7591, 71.6064



69.3473, 58.2092, 102.1882



52.9717, 46.0232, 63.2208



13.2800, 13.1025, 16.4812



16.7960, 7.7829, 40.3554



1.1650, 0.5438, 2.6180



# Previews

## White Background



This preview shows how the XYZ color 49.9645, 61.8073, 44.8939 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 49.9645, 61.8073, 44.8939 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

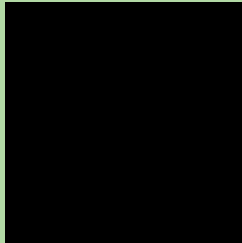
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.9645, 61.8073, 44.8939**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.9645, 61.8073, 44.8939.



This preview shows how white text looks on a background with the XYZ color 49.9645, 61.8073,



# 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

49.9645, 61.8073, 44.8939

### Protanopia

57.3899, 61.2608, 42.0574

### Deuteranopia

62.6154, 61.4299, 46.0931



## Tritanopia

57.2670, 61.7833, 80.8586

# Trichromacy



## Original Color

49.9645, 61.8073, 44.8939

## Protanomaly

54.2239, 61.0469, 43.1078

## Deuteranomaly

57.2181, 61.0887, 45.8214

## Tritanomaly

54.2097, 61.6369, 66.1667

# Monochromacy



## Original Color

49.9645, 61.8073, 44.8939

## Achromatopsia

54.2854, 57.1125, 62.1955

## Achromatomaly

52.5268, 58.8068, 55.5961

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9645, 61.8073, 44.8939 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(178, 217, 165)` looks like.

```
.text, #text, p{  
    color:rgb(178, 217, 165)  
}
```

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(178, 217, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 217, 165) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9645, 61.8073, 44.8939 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(178, 217, 165) }
```



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

```
.border{ border-color:rgb(178, 217, 165) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 217, 165)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 217, 165); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 217, 165);  
box-shadow:4px 4px 4px 4px rgb(178, 217,  
165) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9645, 61.8073, 44.8939 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 217, 165) }
```

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

```
.background{ background-color: rgb(178,  
217, 165) }
```

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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