

# Converting Colors

XYZ(49.7536, 63.5502, 24.4777)

Have a look what the booklet for  
XYZ(49.7536, 63.5502, 24.4777)  
contains.

<b>XYZ(49.9061, 63.7858, 24.4334)</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(49.9061, 63.7858,  
24.4334)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BEDD6E
RGB	190, 221, 110
RGB Percent	75%, 87%, 43%
CMY	0.2549, 0.1333, 0.5686
CMYK	0.14, 0.00, 0.50, 0.13
HSL	77°, 62%, 65%
HSV	77°, 50%, 87%
XYZ	49.9061, 63.7858, 24.4334
YIQ	199.0770, 17.1550, -41.0930

# Conversions

## Conversions Part 2

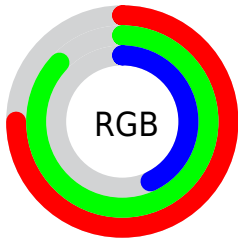
<b>Format</b>	<b>Color</b>
<b>RYB</b>	110, 221, 141
Decimal	12508526
CIELab	83.85, -27.03, 50.63
CIELCh	84, 57.391, 118.099
Yxy	63.7858, 0.3613, 0.4618
Android (android.graphics.Color)	4290698606 (0xFFBEDD6E)
YUV	199.0770, -43.9150, -7.9605
Hunter-Lab	79.8660, -28.2257, 37.7676

# Details

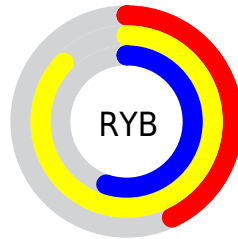
The XYZ color **49.9061, 63.7858, 24.4334** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **29.6140, 22.0367, 71.1029**, and the grayscale version is **54.5877, 57.4305, 62.5418**.

A 20% lighter version of the original color is **81.1722, 94.1568, 49.0178**, and **24.2315, 32.6463, 9.0272** is the 20% darker color. If you saturate the color by 10%, you get **47.3409, 62.5876, 18.7968**, and if you desaturate by 10%, it is **52.8398, 65.1434, 31.6560**.

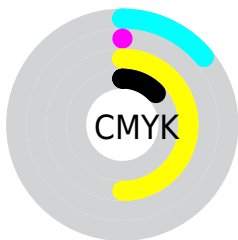
# Distribution



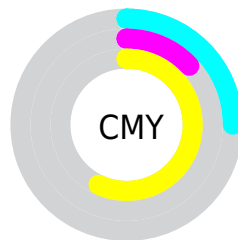
- Red (75%)
- Green (87%)
- Blue (43%)



- Red (43%)
- Yellow (87%)
- Blue (55%)



- Cyan (14%)
- Magenta (0%)
- Yellow (50%)
- Black (13%)



- Cyan (25%)
- Magenta (13%)
- Yellow (57%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.9061, 63.7858, 24.4334 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 49.9061, 63.7858, 24.4334 by changing the saturation by 10% instead.



■ 49.9061, 63.7858,  
24.4334

■ 49.9061, 63.7858,  
24.4334

376.7567,  
438.4157, 288.3611

■ 35.5563, 46.4772,  
15.4403

■ 89.2284, 110.3024,  
51.6892

■ 24.2602, 32.6226,  
8.9789

■ 114.9316,  
140.2792, 70.7889

■ 15.6525, 21.8375,  
4.6308

■ 145.1499,  
175.2475, 94.0946

■ 9.3679, 13.7375,  
1.9774

■ 180.2488,  
215.5917, 122.0248

■ 5.0409, 7.9383,  
0.5413

220.5936,  
261.6963, 154.9980

■ 2.3063, 4.0555,  
0.0000

266.5496,

■ 0.7979, 1.7047,

313.9455, 193.4327

0.0000

318.4822,  
372.7239, 237.7476

■ 0.0000, 0.4267,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 49.9061, 63.7858,  
24.4334

■ 49.9061, 63.7858,  
24.4334

■ 47.3409, 62.5876,  
18.7968

■ 52.8398, 65.1434,  
31.6560

■ 45.1161, 61.5307,  
14.6225


■ 56.1585, 66.6605,  
40.5679


■ 43.2063, 60.6072,  
11.7747

■ 59.8832, 68.3476,  
51.2687

■ 41.5799, 59.8044,  
10.0909

■ 64.0318, 70.2122,  
63.8489


 40.2102, 59.1146,  
9.2910

 68.6211, 72.2609,  
78.3928

 73.6669, 74.5002,  
94.9799

 77.5814, 76.2950,  
105.2452

 79.6346, 77.3535,  
105.3413

 81.7591, 78.4487,  
105.4407

# Harmonies

## Analogous

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



61.4344, 63.7858, 20.5935



49.9061, 63.7858, 24.4334



42.2801, 63.7858, 38.8340

# Triad

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



49.9061, 63.7858, 24.4334



48.6924, 63.7858, 146.6796



88.2390, 63.7858, 71.7811

# Complementary

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



49.9061, 63.7858, 24.4334



29.6140, 22.0367, 71.1029

# 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.



83.6344, 63.7858, 113.0013



49.9061, 63.7858, 24.4334



59.8257, 63.7858, 164.5663

# Square

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



49.9061, 63.7858, 24.4334



41.6507, 63.7858, 107.5711



72.7817, 63.7858, 150.5044



84.6351, 63.7858, 41.6055



# Rectangle

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



49.9061, 63.7858, 24.4334



39.8573, 63.7858, 56.0910



72.7817, 63.7858, 150.5044



87.5882, 63.7858, 84.7820

# Sweetspot

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



49.9076, 63.7886, 24.4348



85.6698, 95.8064, 79.4525



41.9553, 35.1394, 19.3240



18.0786, 20.3903, 16.2265



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.



49.9076, 63.7886, 24.4348



65.3857, 86.5156, 25.8234



38.8102, 58.0677, 23.9154



13.7892, 15.0716, 13.9079



23.4728, 34.3982, 5.4024



1.6028, 2.2708, 0.3538



# Inverse Universe

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



29.6140, 22.0367, 71.1029



34.4320, 22.7186, 97.1781



41.1608, 27.9893, 71.6433



12.6784, 12.7924, 16.4531



8.8211, 3.6716, 39.9822



0.6545, 0.2807, 2.5941



# Previews

## White Background



This preview shows how the XYZ color 49.9061, 63.7858, 24.4334 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 49.9061, 63.7858, 24.4334 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

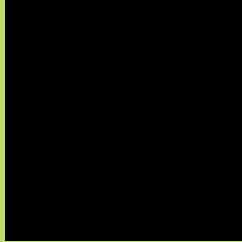
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 49.9061, 63.7858, 24.4334

## Background



This preview shows how black text looks on a background with the XYZ color 49.9061, 63.7858, 24.4334.



This preview shows how white text looks on a background with the XYZ color 49.9061, 63.7858,



# 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

49.9061, 63.7858, 24.4334

### Protanopia

58.0351, 63.4645, 22.8268

### Deuteranopia

64.8158, 63.3678, 25.3380



## Tritanopia

61.0483, 63.3854, 80.2512

# Trichromacy



## Original Color

49.9061, 63.7858, 24.4334

## Protanomaly

54.4724, 63.0971, 23.2179

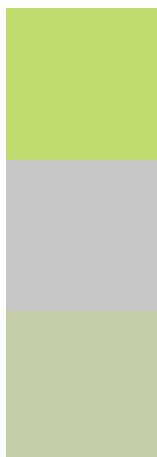
## Deuteranomaly

58.3051, 62.8295, 24.9739

## Tritanomaly

55.8947, 63.1495, 54.0429

# Monochromacy



## Original Color

49.9061, 63.7858, 24.4334

## Achromatopsia

54.2854, 57.1125, 62.1955

## Achromatomaly

52.0528, 59.1514, 45.2331

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.9061, 63.7858, 24.4334 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(190, 221, 110)` looks like.

```
.text, #text, p{  
    color:rgb(190, 221, 110)  
}
```

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(190, 221, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(190, 221, 110) }
```

## Border

The CSS property to change the border of an element to XYZ 49.9061, 63.7858, 24.4334 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(190, 221, 110) }
```



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

```
.border{ border-color:rgb(190, 221, 110) }
```

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

Here you see how a box with a 4 pixel rgb(190, 221, 110) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(190, 221, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(190, 221, 110);  
box-shadow:4px 4px 4px 4px rgb(190, 221,  
110) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.9061, 63.7858, 24.4334 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(190, 221, 110) }
```

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

```
.background{ background-color: rgb(190,  
221, 110) }
```

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