

# Converting Colors

XYZ(42.6007, 49.8193, 42.0443)

Have a look what the booklet for  
XYZ(42.6007, 49.8193, 42.0443)  
contains.

<b>XYZ(42.6972, 49.8858, 42.0289)</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(42.6972, 49.8858,  
42.0289)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ABC2A3
RGB	171, 194, 163
RGB Percent	67%, 76%, 64%
CMY	0.3294, 0.2392, 0.3608
CMYK	0.12, 0.00, 0.16, 0.24
HSL	105°, 20%, 70%
HSV	105°, 16%, 76%
XYZ	42.6972, 49.8858, 42.0289
YIQ	183.5890, -3.7570, -14.5170

# Conversions

## Conversions Part 2

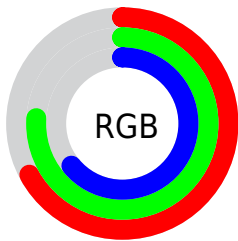
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">163, 194, 186</a>
Decimal	<a href="#">11256483</a>
CIELab	<a href="#">76.00, -13.61, 13.00</a>
CIElCh	<a href="#">76, 18.822, 136.327</a>
Yxy	<a href="#">49.8858, 0.3172, 0.3706</a>
Android (android.graphics.Color)	<a href="#">4289446563 (0xFFABC2A3)</a>
YUV	<a href="#">183.5890, -10.1504, -11.0406</a>
Hunter-Lab	<a href="#">70.6299, -15.6954, 14.1599</a>

# Details

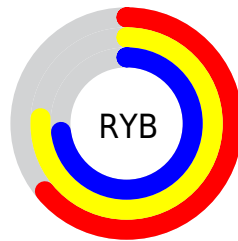
The XYZ color **42.6972, 49.8858, 42.0289** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **43.0865, 40.5300, 56.5937**, and the grayscale version is **45.3901, 47.7539, 52.0040**.

A 20% lighter version of the original color is **78.5161, 90.2251, 79.6066**, and **19.8551, 23.8258, 18.5913** is the 20% darker color. If you saturate the color by 10%, you get **38.1243, 47.7155, 33.4267**, and if you desaturate by 10%, it is **47.8811, 52.3431, 52.0538**.

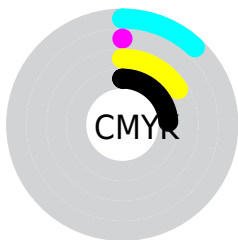
# Distribution



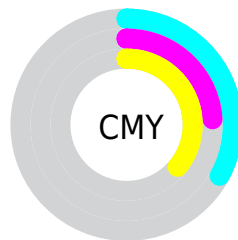
- Red (67%)
- Green (76%)
- Blue (64%)



- Red (64%)
- Yellow (76%)
- Blue (73%)



- Cyan (12%)
- Magenta (0%)
- Yellow (16%)
- Black (24%)




- Cyan (33%)
- Magenta (24%)
- Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.6972, 49.8858, 42.0289 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 42.6972, 49.8858, 42.0289 by changing the saturation by 10% instead.




 42.6972, 49.8858,  
42.0289


 42.6972, 49.8858,  
42.0289

348.3077,  
386.2192, 370.4059

 29.8411, 35.3227,  
28.7982


 78.5123, 90.0056,  
79.5139

 19.8655, 23.9115,  
18.6839


 102.2020,  
116.3312, 104.6053

 12.4050, 15.2680,  
11.2676


130.2336,  
147.3462, 134.4873

 7.0943, 9.0077,  
6.1307

162.9725,  
183.4353, 169.5785

 3.5680, 4.7462,  
2.8547

200.7839,  
224.9827, 210.2975

 1.4608, 2.0991,  
1.0209

244.0334,

 0.2989, 0.6641,

272.3729, 257.0626

0.0000

293.0862,  
325.9903, 310.2926

■ 0.0000, 0.0000,  
0.0000

■ 42.6972, 49.8858,  
42.0289

■ 42.6972, 49.8858,  
42.0289

■ 38.1243, 47.7155,  
33.4267

■ 47.8811, 52.3431,  
52.0538

■ 34.1352, 45.8153,  
26.1796

■ 53.6935, 55.0910,  
63.5583

■ 30.7068, 44.1763,  
20.2193

■ 60.1566, 58.1408,  
76.6002

■ 27.8128, 42.7865,  
15.4706

■ 67.2900, 61.5017,  
91.2333

■ 25.4246, 41.6330,  
11.8501

■ 74.2962, 64.8557,  
103.2103

■ 23.5108, 40.7017,  
9.2642

■ 78.5828, 67.0655,  
103.4109

■ 22.0358, 39.9765,  
7.6038

■ 20.9576, 39.4388,  
6.7318

■ 20.6109, 39.2651,  
6.4926

# Harmonies

## Analogous

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



45.5421, 49.8858, 37.7935



42.6972, 49.8858, 42.0289



41.1525, 49.8858, 49.8735

# Triad

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



42.6972, 49.8858, 42.0289



45.8369, 49.8858, 75.3552



54.1940, 49.8858, 49.0605

# Complementary

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



42.6972, 49.8858, 42.0289



43.0865, 40.5300, 56.5937

# 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.



54.2826, 49.8858, 59.0172



42.6972, 49.8858, 42.0289



49.3385, 49.8858, 75.0671

# Square

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



42.6972, 49.8858, 42.0289



42.9038, 49.8858, 69.5379



52.4680, 49.8858, 68.7937



52.2317, 49.8858, 41.4972



# Rectangle

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



42.6972, 49.8858, 42.0289



41.0160, 49.8858, 56.4762



52.4680, 49.8858, 68.7937



54.4471, 49.8858, 52.2138

# Sweetspot

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



42.6985, 49.8879, 42.0300



87.6457, 95.2545, 96.0703



46.3638, 49.1214, 41.6888



19.0363, 20.7854, 20.7303



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

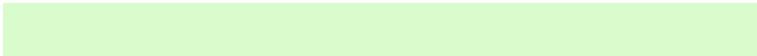


# Same Dimension

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



42.6985, 49.8879, 42.0300



74.4830, 89.0170, 70.6882



41.6754, 49.2834, 45.4633



10.1827, 11.3816, 10.7221



13.6163, 25.8483, 4.2716



0.6551, 1.1513, 0.1877



# Inverse Universe

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



43.0865, 40.5300, 56.5937



75.3106, 69.0115, 101.8210



44.2918, 41.2429, 52.5112



10.2354, 10.1125, 12.6973



14.0374, 6.4970, 34.0708



0.6677, 0.3122, 1.4750



# Previews

## White Background



This preview shows how the XYZ color 42.6972, 49.8858, 42.0289 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

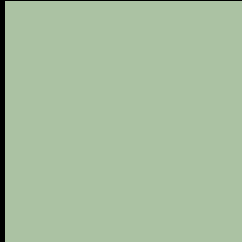
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.6972, 49.8858, 42.0289 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

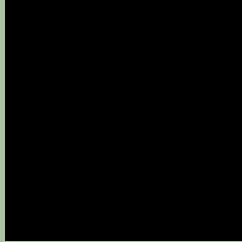
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 42.6972, 49.8858, 42.0289**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.6972, 49.8858, 42.0289.



This preview shows how white text looks on a background with the XYZ color 42.6972, 49.8858,



# 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

42.6972, 49.8858, 42.0289

### Protanopia

47.0543, 49.9142, 39.9553

### Deuteranopia

50.6448, 49.5418, 42.9697



## Tritanopia

46.8942, 49.6253, 63.6070

# Trichromacy



## Original Color

42.6972, 49.8858, 42.0289

## Protanomaly

45.4977, 50.0563, 40.5216

## Deuteranomaly

47.4292, 49.4203, 42.6366

## Tritanomaly

45.1698, 49.5717, 54.7645

# Monochromacy



## Original Color

42.6972, 49.8858, 42.0289

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

44.4101, 48.6847, 48.1307

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.6972, 49.8858, 42.0289 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(171, 194, 163)` looks like.

```
.text, #text, p{  
    color:rgb(171, 194, 163)  
}
```

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(171, 194, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 194, 163) }
```

## Border

The CSS property to change the border of an element to XYZ 42.6972, 49.8858, 42.0289 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(171, 194, 163) }
```



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

```
.border{ border-color:rgb(171, 194, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 194, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 194, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 194, 163);  
box-shadow:4px 4px 4px 4px rgb(171, 194,  
163) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.6972, 49.8858, 42.0289 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 194, 163) }
```

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

```
.background{ background-color: rgb(171,  
194, 163) }
```

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