

# Converting Colors

XYZ(50.1462, 55.1836, 42.4329)

Have a look what the booklet for  
XYZ(50.1462, 55.1836, 42.4329)  
contains.

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# **Color**

**XYZ(50.0936, 55.0383,  
42.6336)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C6C6A3
RGB	198, 198, 163
RGB Percent	78%, 78%, 64%
CMY	0.2235, 0.2235, 0.3608
CMYK	0.00, 0.00, 0.18, 0.22
HSL	60°, 23%, 71%
HSV	60°, 18%, 78%
XYZ	50.0936, 55.0383, 42.6336
YIQ	194.0100, 11.2350, -10.8850

# Conversions

## Conversions Part 2

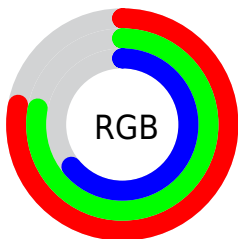
Format	Color
<a href="#">RYB</a>	<a href="#">163, 198, 163</a>
Decimal	<a href="#">13026979</a>
CIELab	<a href="#">79.06, -5.88, 17.59</a>
CIELCh	<a href="#">79, 18.542, 108.478</a>
Yxy	<a href="#">55.0383, 0.3390, 0.3725</a>
Android (android.graphics.Color)	<a href="#">4291217059</a> ( <a href="#">0xFFC6C6A3</a> )
YUV	<a href="#">194.0100, -15.2879, 3.4992</a>
Hunter-Lab	<a href="#">74.1878, -9.3007, 17.8592</a>

# Details

The XYZ color **50.0936, 55.0383, 42.6336** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **38.3967, 38.0597, 58.7517**, and the grayscale version is **51.3683, 54.0434, 58.8533**.

A 20% lighter version of the original color is **89.6549, 97.8420, 80.4897**, and **24.3441, 27.0235, 18.9719** is the 20% darker color. If you saturate the color by 10%, you get **48.4565, 54.3852, 34.0101**, and if you desaturate by 10%, it is **52.0114, 55.8074, 52.7225**.

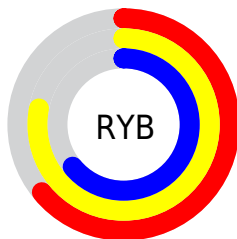
# Distribution



Red (78%)

Green (78%)

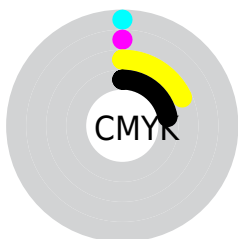
Blue (64%)



Red (64%)

Yellow (78%)

Blue (64%)

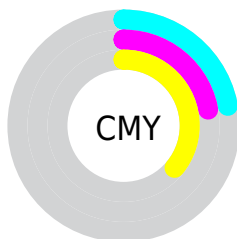


Cyan (0%)

Magenta (0%)

Yellow (18%)

Black (22%)



Cyan (22%)

Magenta (22%)


Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.0936, 55.0383, 42.6336 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 50.0936, 55.0383, 42.6336 by changing the saturation by 10% instead.





 50.0936, 55.0383,  
42.6336


 50.0936, 55.0383,  
42.6336


377.4778,  
406.0571, 372.9796

 35.7059, 39.4324,  
29.2685


 89.5045, 97.5971,  
80.4381

 24.3762, 27.0963,  
19.0367


 115.2585,  
125.3187, 105.7145

 15.7392, 17.6455,  
11.5197


145.5318,  
157.8477, 135.7984

 9.4294, 10.6958,  
6.2990

180.6900,  
195.5685, 171.1084

 5.0817, 5.8627,  
2.9560

221.0983,  
238.8654, 212.0630

 2.3305, 2.7618,  
1.0722

267.1222,

 0.8102, 1.0087,

288.1229, 259.0807

0.0000

319.1269,  
343.7253, 312.5800

■ 0.0000, 0.0000,  
0.0000

■ 50.0936, 55.0383,  
42.6336

■ 50.0936, 55.0383,  
42.6336

■ 48.4565, 54.3852,  
34.0101

■ 52.0114, 55.8074,  
52.7225

■ 47.0829, 53.8357,  
26.7805

■ 54.2177, 56.6900,  
64.3367

■ 45.9603, 53.3866,  
20.8727

■ 56.7252, 57.6930,  
77.5371

■ 45.0735, 53.0318,  
16.2070

■ 59.5446, 58.8209,  
92.3802

■ 44.4058, 52.7646,  
12.6945

■ 61.5377, 59.6182,  
102.8718

■ 43.9380, 52.5774,  
10.2352

■ 61.5384, 59.6186,  
102.8719

■ 43.6480, 52.4613,  
8.7116

■ 61.5391, 59.6190,  
102.8719

■ 43.5034, 52.4034,  
7.9540

■ 61.5399, 59.6193,  
102.8719

■ 43.4781, 52.3932,  
7.8214

■ 61.5406, 59.6197,  
102.8720

# Harmonies

## Analogous

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



53.7435, 55.0383, 42.1266



50.0936, 55.0383, 42.6336



47.1735, 55.0383, 47.4311

# Triad

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



50.0936, 55.0383, 42.6336



47.7445, 55.0383, 76.4806



59.5836, 55.0383, 64.0820

# Complementary

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



50.0936, 55.0383, 42.6336



38.3967, 38.0597, 58.7517

# 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.



57.8113, 55.0383, 74.4457



50.0936, 55.0383, 42.6336



50.9066, 55.0383, 82.1460

# Square

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



50.0936, 55.0383, 42.6336



45.8619, 55.0383, 66.6073



54.5955, 55.0383, 81.3603



59.3407, 55.0383, 53.7096



# Rectangle

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



50.0936, 55.0383, 42.6336



45.9801, 55.0383, 52.7717



54.5955, 55.0383, 81.3603



59.2005, 55.0383, 67.7022

# Sweetspot

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



50.0951, 55.0407, 42.6348



93.0639, 99.2055, 98.4450



42.9986, 40.8459, 40.2689



19.8621, 21.2111, 20.7689



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.



50.0951, 55.0407, 42.6348



87.5929, 97.0168, 69.6458



45.7461, 52.7988, 42.4312



11.5238, 12.4170, 11.3521



28.2733, 34.0707, 5.0861



1.3388, 1.6133, 0.2408



# Inverse Universe

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



38.3967, 38.0597, 58.7517



63.2523, 61.6844, 103.1803



42.2310, 40.0363, 58.9312



10.0569, 10.2876, 13.3731



6.6291, 2.6517, 34.9068



0.3139, 0.1256, 1.6528



# Previews

## White Background



This preview shows how the XYZ color 50.0936, 55.0383, 42.6336 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

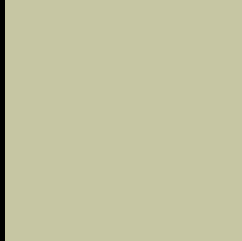
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.0936, 55.0383, 42.6336 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

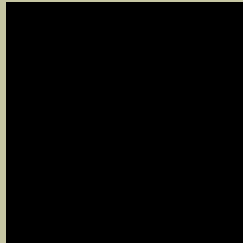
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 50.0936, 55.0383, 42.6336**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.0936, 55.0383, 42.6336.



This preview shows how white text looks on a background with the XYZ color 50.0936, 55.0383,



# 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

50.0936, 55.0383, 42.6336

### Protanopia

51.7688, 54.9042, 42.0515

### Deuteranopia

55.8261, 54.6906, 43.2113



## Tritanopia

55.0140, 55.0416, 66.7560

# Trichromacy



## Original Color

50.0936, 55.0383, 42.6336

## Protanomaly

51.1634, 54.9259, 42.0876

## Deuteranomaly

53.5748, 54.8267, 42.8809

## Tritanomaly

53.0529, 54.9017, 57.0911

# Monochromacy



## Original Color

50.0936, 55.0383, 42.6336

## Achromatopsia

51.2775, 53.9479, 58.7493

## Achromatomaly

50.5680, 54.0512, 52.5675

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.0936, 55.0383, 42.6336 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(198, 198, 163)` looks like.

```
.text, #text, p{  
    color:rgb(198, 198, 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(198, 198, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(198, 198, 163) }
```

## Border

The CSS property to change the border of an element to XYZ 50.0936, 55.0383, 42.6336 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(198, 198, 163) }
```



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

```
.border{ border-color:rgb(198, 198, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(198, 198, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(198, 198, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(198, 198, 163);  
box-shadow:4px 4px 4px 4px rgb(198, 198,  
163) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.0936, 55.0383, 42.6336 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(198, 198, 163) }
```

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

```
.background{ background-color: rgb(198,  
198, 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](#).

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