

# Converting Colors

XYZ(34.8172, 33.4462, 21.3270)

Have a look what the booklet for  
XYZ(34.8172, 33.4462, 21.3270)  
contains.

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# Color

**XYZ(34.9446, 33.5981,  
21.4729)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BD9575
RGB	189, 149, 117
RGB Percent	74%, 58%, 46%
CMY	0.2588, 0.4157, 0.5412
CMYK	0.00, 0.21, 0.38, 0.26
HSL	27°, 35%, 60%
HSV	27°, 38%, 74%
XYZ	34.9446, 33.5981, 21.4729
YIQ	157.3120, 34.1120, -1.4720

# Conversions

## Conversions Part 2

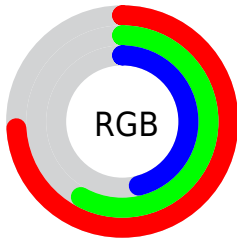
<b>Format</b>	<b>Color</b>
<b>RYB</b>	189, 175, 117
Decimal	12424565
CIELab	64.64, 10.60, 22.62
CIElCh	65, 24.983, 64.902
Yxy	33.5981, 0.3882, 0.3732
Android (android.graphics.Color)	4290614645 (0xFFBD9575)
YUV	157.3120, -19.8738, 27.7904
Hunter-Lab	57.9639, 6.1753, 18.6105

# Details

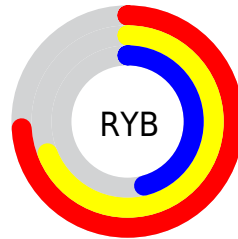
The XYZ color **34.9446, 33.5981, 21.4729** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **28.5779, 31.5687, 52.7312**, and the grayscale version is **32.2651, 33.9454, 36.9665**.

A 20% lighter version of the original color is **66.5234, 65.1693, 46.6089**, and **15.2426, 14.2211, 7.4104** is the 20% darker color. If you saturate the color by 10%, you get **32.3569, 30.0251, 15.6704**, and if you desaturate by 10%, it is **37.9081, 37.5635, 28.5083**.

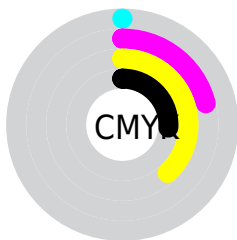
# Distribution



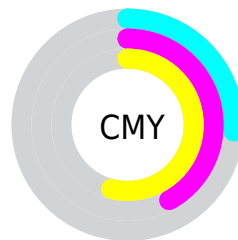
- Red (74%)
- Green (58%)
- Blue (46%)



- Red (74%)
- Yellow (69%)
- Blue (46%)



- Cyan (0%)
- Magenta (21%)
- Yellow (38%)
- Black (26%)




- Cyan (26%)
- Magenta (42%)
- Yellow (54%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.9446, 33.5981, 21.4729 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 34.9446, 33.5981, 21.4729 by changing the saturation by 10% instead.





 34.9446, 33.5981,  
21.4729


 34.9446, 33.5981,  
21.4729


315.8360,  
318.3363, 272.6443


 23.7865, 22.5850,  
13.2755


 66.7345, 65.3082,  
46.7642

 15.2992, 14.2874,  
7.4856

 88.0971, 86.7740,  
64.6952

 9.1173, 8.3208,  
3.6846

 113.5918,  
112.4928, 86.7079

 4.8755, 4.3009,  
1.4539

143.5841,  
142.8491, 113.2207

 2.2084, 1.8433,  
0.1833

178.4394,  
178.2272, 144.6521

 0.7472, 0.5139,  
0.0000

218.5228,

 0.0000, 0.0000,

219.0115, 181.4209

0.0000

264.1999,  
265.5864, 223.9454

■ 34.9446, 33.5981,  
21.4729

■ 34.9446, 33.5981,  
21.4729

■ 32.3569, 30.0251,  
15.6704

■ 37.9081, 37.5635,  
28.5083

■ 30.1250, 26.8265,  
11.0259

■ 41.2612, 41.9292,  
36.8413

■ 28.2306, 23.9897,  
7.4594


■ 45.0198, 46.7086,  
46.5347


■ 26.6522, 21.4991,  
4.8797


■ 49.1983, 51.9131,  
57.6464


■ 25.3656, 19.3380,  
3.1803


■ 53.8103, 57.5536,  
70.2308


 24.3347, 17.4842,  
2.1956

 58.8686, 63.6406,  
84.3398

 24.1575, 17.1612,  
2.0392

 64.3856, 70.1841,  
100.0225

 68.1740, 76.3143,  
105.7447

 71.2351, 82.4365,  
106.7651

# Harmonies

## Analogous

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



37.9205, 33.5981, 26.4198



34.9446, 33.5981, 21.4729



31.3492, 33.5981, 20.2425

# Triad

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



34.9446, 33.5981, 21.4729



25.5531, 33.5981, 38.2936



36.0380, 33.5981, 55.2559

# Complementary

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



34.9446, 33.5981, 21.4729



28.5779, 31.5687, 52.7312

# 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.



32.5260, 33.5981, 59.9577



34.9446, 33.5981, 21.4729



26.6132, 33.5981, 49.0655

# Square

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



34.9446, 33.5981, 21.4729



26.0956, 33.5981, 28.8394



29.1015, 33.5981, 57.5039



38.5841, 33.5981, 45.6009



# Rectangle

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



34.9446, 33.5981, 21.4729



29.1216, 33.5981, 21.4529



29.1015, 33.5981, 57.5039



34.9219, 33.5981, 57.5426

# Sweetspot

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



34.9455, 33.5997, 21.4736



78.4773, 80.9373, 77.7281



33.5021, 26.0034, 35.5112



16.6777, 17.1534, 16.2010



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



34.9455, 33.5997, 21.4736



58.5430, 54.6048, 29.3530



41.3793, 46.4673, 23.6182



9.8698, 10.2157, 10.0283



16.3277, 11.6942, 1.3966



0.7048, 0.5886, 0.0765



# Inverse Universe

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



28.5779, 31.5687, 52.7312



45.4547, 50.4175, 93.5620



23.4567, 21.3264, 51.0242



9.4441, 10.0805, 12.1202



9.6554, 9.4226, 33.7027



0.4425, 0.4977, 1.3416



# Previews

## White Background



This preview shows how the XYZ color 34.9446, 33.5981, 21.4729 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

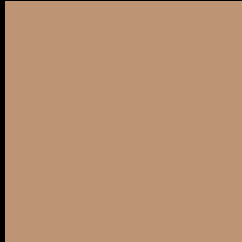
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 34.9446, 33.5981, 21.4729 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

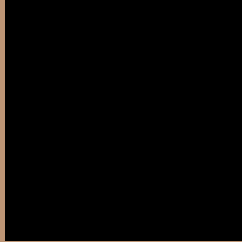
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 34.9446, 33.5981, 21.4729**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.9446, 33.5981, 21.4729.



This preview shows how white text looks on a background with the XYZ color 34.9446, 33.5981,

21.4729.

# 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

34.9446, 33.5981, 21.4729

### Protanopia

31.5956, 33.7948, 22.6271

### Deuteranopia

34.2851, 33.7319, 21.5335



## Tritanopia

37.8820, 33.6505, 35.5090

# Trichromacy



## Original Color

34.9446, 33.5981, 21.4729

## Protanomaly

32.7899, 33.6732, 22.2241

## Deuteranomaly

34.3669, 33.5362, 21.4914

## Tritanomaly

36.8248, 33.6873, 29.7607

# Monochromacy



## Original Color

34.9446, 33.5981, 21.4729

## Achromatopsia

32.0474, 33.7164, 36.7171

## Achromatomaly

32.8003, 33.4992, 30.3284

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.9446, 33.5981, 21.4729 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(189, 149, 117)` looks like.

```
.text, #text, p{  
    color:rgb(189, 149, 117)  
}
```

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(189, 149, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 149, 117) }
```

## Border

The CSS property to change the border of an element to XYZ 34.9446, 33.5981, 21.4729 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(189, 149, 117) }
```



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

```
.border{ border-color:rgb(189, 149, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 149, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(189, 149, 117); -webkit-box-shadow:4px 4px 4px 4px rgb(189, 149, 117); box-shadow:4px 4px 4px 4px rgb(189, 149, 117) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.9446, 33.5981, 21.4729 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 149, 117) }
```

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

```
.background{ background-color: rgb(189,  
149, 117) }
```

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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