

# Converting Colors

XYZ(41.8996, 45.2004, 32.1074)

Have a look what the booklet for  
XYZ(41.8996, 45.2004, 32.1074)  
contains.

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# **Color**

**XYZ(41.9428, 45.2869,  
32.1218)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BCB48E
RGB	188, 180, 142
RGB Percent	74%, 71%, 56%
CMY	0.2627, 0.2941, 0.4431
CMYK	0.00, 0.04, 0.24, 0.26
HSL	50°, 26%, 65%
HSV	50°, 24%, 74%
XYZ	41.9428, 45.2869, 32.1218
YIQ	178.0600, 16.9660, -10.1220

# Conversions

## Conversions Part 2

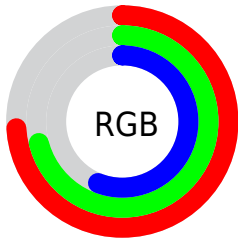
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	152, 188, 142
Decimal	12366990
CIE <sub>Lab</sub>	73.08, -3.30, 20.45
CIE <sub>LCh</sub>	73, 20.711, 99.174
Yxy	45.2869, 0.3514, 0.3794
Android (android.graphics.Color)	4290557070 (0xFFBCB48E)
YUV	178.0600, -17.7776, 8.7174
Hunter-Lab	67.2955, -6.5148, 18.8063

# Details

The XYZ color **41.9428, 45.2869, 32.1218** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **31.1386, 31.1935, 51.9570**, and the grayscale version is **42.4345, 44.6444, 48.6177**.

A 20% lighter version of the original color is **77.6154, 83.3889, 64.2294**, and **19.3527, 21.0198, 13.1624** is the 20% darker color. If you saturate the color by 10%, you get **39.9972, 43.4670, 25.0870**, and if you desaturate by 10%, it is **44.1445, 47.2372, 40.4176**.

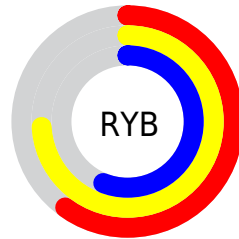
# Distribution



Red (74%)

Green (71%)

Blue (56%)



Red (60%)

Yellow (74%)

Blue (56%)

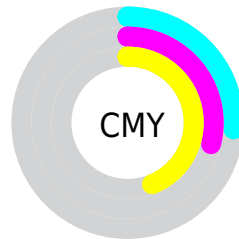


Cyan (0%)

Magenta (4%)

Yellow (24%)

Black (26%)



Cyan (26%)

Magenta (29%)


Yellow (44%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.9428, 45.2869, 32.1218 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 41.9428, 45.2869, 32.1218 by changing the saturation by 10% instead.





 41.9428, 45.2869,  
32.1218


 41.9428, 45.2869,  
32.1218


345.2414,  
367.9343, 326.1835

 29.2474, 31.6835,  
21.1890


 77.3788, 83.1508,  
64.1021

 19.4133, 21.1198,  
13.0696


 100.8500,  
108.1800, 85.9867

 12.0751, 13.2116,  
7.3452


128.6440,  
137.7866, 112.3589

 6.8674, 7.5744,  
3.5972

161.1260,  
172.3550, 143.6372

 3.4249, 3.8239,  
1.4071

198.6614,  
212.2696, 180.2404

 1.3822, 1.5755,  
0.1472

241.6155,

 0.2435, 0.3410,

257.9147, 222.5868

0.0000

290.3537,  
309.6748, 271.0950

■ 0.0000, 0.0000,  
0.0000

■ 41.9428, 45.2869,  
32.1218

■ 41.9428, 45.2869,  
32.1218

■ 39.9972, 43.4670,  
25.0870

■ 44.1445, 47.2372,  
40.4176

■ 38.2920, 41.7665,  
19.2474

■ 46.6098, 49.3165,  
50.0300

■ 36.8153, 40.1819,  
14.5356

■ 49.3506, 51.5311,  
61.0148

■ 35.5528, 38.7074,  
10.8764

■ 52.3766, 53.8853,  
73.4237

■ 34.4884, 37.3362,  
8.1853

■ 55.6973, 56.3829,  
87.3056

■ 33.6033, 36.0609,  
6.3649

■ 59.3217, 59.0276,  
102.7074

■ 32.8751, 34.8722,  
5.2970

■ 60.1167, 60.5665,  
103.1298

■ 32.5142, 34.2414,  
4.8956

■ 60.8960, 62.1251,  
103.3895

■ 61.6916, 63.7164,  
103.6547

# Harmonies

## Analogous

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



45.5680, 45.2869, 32.9159



41.9428, 45.2869, 32.1218



38.7921, 45.2869, 35.4055

# Triad

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



41.9428, 45.2869, 32.1218



37.8667, 45.2869, 63.0147



49.8879, 45.2869, 56.7474

# Complementary

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



41.9428, 45.2869, 32.1218



31.1386, 31.1935, 51.9570

# 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.



47.5954, 45.2869, 66.4474



41.9428, 45.2869, 32.1218



40.6146, 45.2869, 70.4037

# Square

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



41.9428, 45.2869, 32.1218



36.5272, 45.2869, 52.5592



44.1640, 45.2869, 71.7411



50.2928, 45.2869, 46.1971



# Rectangle

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



41.9428, 45.2869, 32.1218



37.3352, 45.2869, 39.7777



44.1640, 45.2869, 71.7411



49.3066, 45.2869, 60.2545

# Sweetspot

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



41.9440, 45.2889, 32.1228



83.2424, 88.3573, 85.8218



35.9525, 32.2539, 33.3688



17.8421, 18.9517, 18.2250



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

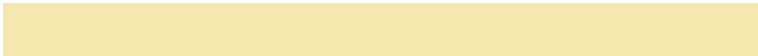


# Same Dimension

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



41.9440, 45.2889, 32.1228



74.1940, 80.3976, 51.5542



40.1956, 46.8535, 32.5169



10.1773, 10.8306, 10.1308



22.1854, 23.4097, 3.3492



0.9068, 0.9925, 0.1438



# Inverse Universe

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



31.1386, 31.1935, 51.9570



51.4538, 50.7371, 93.3075



32.5708, 30.1020, 51.6708



9.1470, 9.4863, 12.0212



6.5832, 3.2782, 32.6787



0.2998, 0.2123, 1.2940



# Previews

## White Background



This preview shows how the XYZ color 41.9428, 45.2869, 32.1218 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

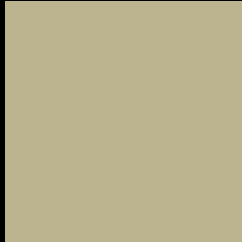
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.9428, 45.2869, 32.1218 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

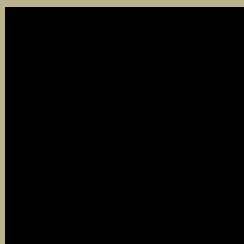
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 41.9428, 45.2869, 32.1218**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.9428, 45.2869, 32.1218.



This preview shows how white text looks on a background with the XYZ color 41.9428, 45.2869,



# 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

41.9428, 45.2869, 32.1218

### Protanopia

42.4884, 45.2696, 32.0897

### Deuteranopia

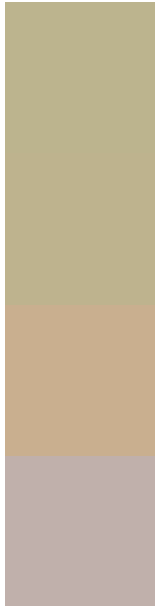
46.0811, 45.0740, 32.6570



## Tritanopia

46.3538, 45.3293, 53.3200

# Trichromacy



## Original Color

41.9428, 45.2869, 32.1218

## Protanomaly

42.2378, 45.1403, 32.0780

## Deuteranomaly

44.3753, 45.0606, 32.3453

## Tritanomaly

44.6142, 45.1974, 44.9006

# Monochromacy



## Original Color

41.9428, 45.2869, 32.1218

## Achromatopsia

42.3164, 44.5201, 48.4824

## Achromatomaly

42.2030, 44.9019, 42.0399

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.9428, 45.2869, 32.1218 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(188, 180, 142)` looks like.

```
.text, #text, p{  
    color:rgb(188, 180, 142)  
}
```

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(188, 180, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 180, 142) }
```

## Border

The CSS property to change the border of an element to XYZ 41.9428, 45.2869, 32.1218 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(188, 180, 142) }
```



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

```
.border{ border-color:rgb(188, 180, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 180, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 180, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 180, 142);  
box-shadow:4px 4px 4px 4px rgb(188, 180,  
142) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.9428, 45.2869, 32.1218 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 180, 142) }
```

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

```
.background{ background-color: rgb(188,  
180, 142) }
```

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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