

# Converting Colors

XYZ(45.4438, 40.1348, 55.3142)

Have a look what the booklet for  
XYZ(45.4438, 40.1348, 55.3142)  
contains.

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# Color

**XYZ(45.3908, 40.1991,  
55.2360)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C89DC0
RGB	200, 157, 192
RGB Percent	78%, 62%, 75%
CMY	0.2157, 0.3843, 0.2471
CMYK	0.00, 0.21, 0.04, 0.22
HSL	311°, 28%, 70%
HSV	311°, 21%, 78%
XYZ	45.3908, 40.1991, 55.2360
YIQ	173.8470, 14.3930, 20.0010

# Conversions

## Conversions Part 2

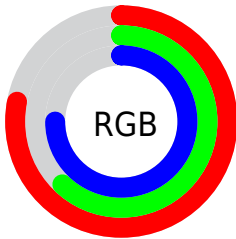
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	200, 157, 192
Decimal	13147584
CIE <sub>Lab</sub>	69.61, 21.81, -11.90
CIE <sub>LCh</sub>	70, 24.846, 331.375
Yxy	40.1991, 0.3223, 0.2855
Android (android.graphics.Color)	4291337664 (0xFFC89DC0)
YUV	173.8470, 8.9494, 22.9362
Hunter-Lab	63.4028, 16.8355, -7.2711

# Details

The XYZ color **45.3908, 40.1991, 55.2360** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **41.3520, 51.1944, 43.3016**, and the grayscale version is **40.1050, 42.1936, 45.9488**.

A 20% lighter version of the original color is **81.7268, 75.1243, 98.9999**, and **21.5658, 18.0782, 26.7789** is the 20% darker color. If you saturate the color by 10%, you get **41.8733, 33.8151, 52.0552**, and if you desaturate by 10%, it is **49.4750, 47.6986, 58.6581**.

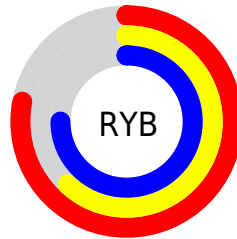
# Distribution



Red (78%)

Green (62%)

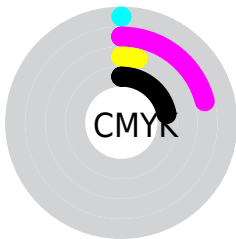
Blue (75%)



Red (78%)

Yellow (62%)

Blue (75%)

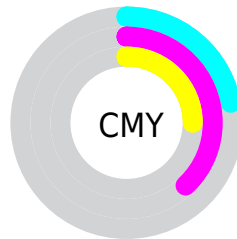


Cyan (0%)

Magenta (21%)

Yellow (4%)

Black (22%)



Cyan (22%)

Magenta (38%)


Yellow (25%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.3908, 40.1991, 55.2360 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 45.3908, 40.1991, 55.2360 by changing the saturation by 10% instead.





 45.3908, 40.1991,  
55.2360


 45.3908, 40.1991,  
55.2360


359.1111,  
346.9620, 424.1130

 31.9679, 27.6938,  
39.1908


 82.5400, 75.4666,  
99.3613

 21.4924, 18.0950,  
26.5992


 106.9971, 98.9976,  
128.2784

 13.5989, 11.0182,  
17.0427


135.8629,  
126.9726, 162.3233

 7.9221, 6.0791,  
10.1027

169.5028,  
159.7761, 201.9145

 4.0965, 2.8932,  
5.3606

208.2823,  
197.7924, 247.4706

 1.7569, 1.0762,  
2.3979

252.5666,

 0.4915, 0.0000,

241.4058, 299.4100

0.7853

302.7211,  
291.0009, 358.1513

■ 0.0000, 0.0000,  
0.0000

■ 45.3908, 40.1991,  
55.2360

■ 45.3908, 40.1991,  
55.2360

■ 41.8733, 33.8151,  
52.0552

■ 49.4750, 47.6986,  
58.6581

■ 38.8919, 28.4873,  
49.1037

■ 54.1475, 56.3584,  
62.3276

■ 36.4186, 24.1592,  
46.3722

■ 59.4330, 66.2275,  
66.2537

■ 34.4212, 20.7668,  
43.8497

■ 65.3539, 77.3503,  
70.4441

■ 32.8641, 18.2386,  
41.5239

■ 71.2884, 88.4830,  
74.6919

■ 31.7062, 16.4928,  
39.3806

■ 71.7593, 88.6714,  
77.1718

■ 30.8987, 15.4319,  
37.4034

■ 72.2411, 88.8641,  
79.7090

■ 30.4116, 14.9163,  
35.8271

■ 72.7339, 89.0612,  
82.3037

■ 73.2376, 89.2627,  
84.9564

# Harmonies

## Analogous

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



42.3687, 40.1991, 65.4833



45.3908, 40.1991, 55.2360



46.4546, 40.1991, 43.2418

# Triad

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



45.3908, 40.1991, 55.2360



38.0232, 40.1991, 25.1830



31.9903, 40.1991, 56.3157

# Complementary

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



45.3908, 40.1991, 55.2360



41.3520, 51.1944, 43.3016

# 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.



31.0001, 40.1991, 44.3025



45.3908, 40.1991, 55.2360



34.3291, 40.1991, 27.4809

# Square

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



45.3908, 40.1991, 55.2360



42.0260, 40.1991, 27.0938



31.8260, 40.1991, 34.0118



34.6286, 40.1991, 66.1795



# Rectangle

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



45.3908, 40.1991, 55.2360



45.8550, 40.1991, 36.1982



31.8260, 40.1991, 34.0118



31.4623, 40.1991, 52.3303

# Sweetspot

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



45.3920, 40.2009, 55.2369



89.9068, 90.4417, 104.9412



37.9769, 36.2730, 59.6440



19.1289, 19.1454, 22.3716



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.



45.3920, 40.2009, 55.2369



75.5001, 63.9770, 92.8977



43.1920, 39.3209, 43.6518



10.9952, 10.7815, 12.9579



19.3674, 9.4965, 22.9426



0.9396, 0.4587, 1.2051



# Inverse Universe

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



45.3920, 40.2009, 55.2369



75.5001, 63.9770, 92.8977



43.4641, 52.0392, 54.4233



10.9952, 10.7815, 12.9579



19.3674, 9.4965, 22.9426



0.9396, 0.4587, 1.2051



# Previews

## White Background



This preview shows how the XYZ color 45.3908, 40.1991, 55.2360 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

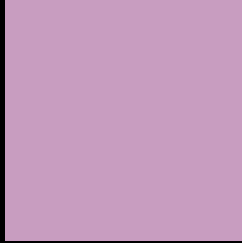
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.3908, 40.1991, 55.2360 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

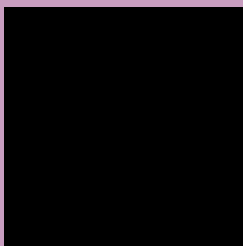
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 45.3908, 40.1991, 55.2360**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.3908, 40.1991, 55.2360.



This preview shows how white text looks on a background with the XYZ color 45.3908, 40.1991,



# 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

45.3908, 40.1991, 55.2360

### Protanopia

39.9231, 40.4386, 60.3448

### Deuteranopia

41.0619, 40.3373, 54.3369



## Tritanopia

43.1396, 40.0291, 44.9878

# Trichromacy



## Original Color

45.3908, 40.1991, 55.2360

## Protanomaly

41.6646, 40.2886, 58.4038

## Deuteranomaly

42.5087, 40.2703, 54.8227

## Tritanomaly

43.9251, 40.0973, 48.6045

# Monochromacy



## Original Color

45.3908, 40.1991, 55.2360

## Achromatopsia

40.2316, 42.3268, 46.0938

## Achromatomaly

41.8716, 41.4087, 49.5019

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.3908, 40.1991, 55.2360 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(200, 157, 192)` looks like.

```
.text, #text, p{  
    color:rgb(200, 157, 192)  
}
```

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(200, 157, 192) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 157, 192) }
```

## Border

The CSS property to change the border of an element to XYZ 45.3908, 40.1991, 55.2360 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(200, 157, 192) }
```



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

```
.border{ border-color:rgb(200, 157, 192) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 157, 192)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 157, 192); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 157, 192);  
box-shadow:4px 4px 4px 4px rgb(200, 157,  
192) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.3908, 40.1991, 55.2360 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 157, 192) }
```

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

```
.background{ background-color: rgb(200,  
157, 192) }
```

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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