

# Converting Colors

XYZ(50.3325, 51.0815, 69.4951)

Have a look what the booklet for  
XYZ(50.3325, 51.0815, 69.4951)  
contains.

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# Color

**XYZ(50.1475, 50.8589,  
69.4610)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BBBBD4
RGB	187, 187, 212
RGB Percent	73%, 73%, 83%
CMY	0.2667, 0.2666, 0.1686
CMYK	0.12, 0.12, 0.00, 0.17
HSL	240°, 23%, 78%
HSV	240°, 12%, 83%
XYZ	50.1475, 50.8589, 69.4610
YIQ	189.8500, -8.0250, 7.7750

# Conversions

## Conversions Part 2

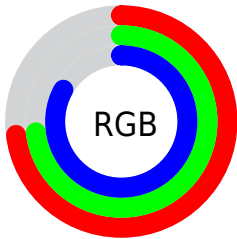
Format	Color
R <sub>Y</sub> B	187, 187, 212
Decimal	12303316
CIE Lab	76.59, 4.91, -12.53
CIE LCh	77, 13.455, 291.421
Yxy	50.8589, 0.2942, 0.2983
Android (android.graphics.Color)	4290493396 (0xFFBBBD4)
YUV	189.8500, 10.9200, -2.4994
Hunter-Lab	71.3154, 0.7154, -7.8275

# Details

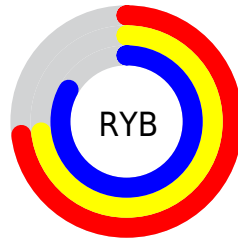
The XYZ color **50.1475, 50.8589, 69.4610** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **59.6647, 64.6715, 56.3530**, and the grayscale version is **48.8010, 51.3424, 55.9119**.

A 20% lighter version of the original color is **87.0627, 90.3759, 107.4633**, and **24.4424, 24.5528, 35.3492** is the 20% darker color. If you saturate the color by 10%, you get **41.1692, 40.0411, 67.8470**, and if you desaturate by 10%, it is **60.5583, 63.4032, 71.3344**.

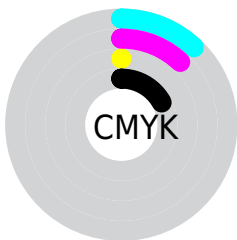
# Distribution



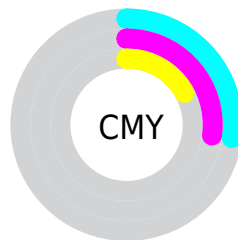
- Red (73%)
- Green (73%)
- Blue (83%)



- Red (73%)
- Yellow (73%)
- Blue (83%)



- Cyan (12%)
- Magenta (12%)
- Yellow (0%)
- Black (17%)



- Cyan (27%)
- Magenta (27%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.1475, 50.8589, 69.4610 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 50.1475, 50.8589, 69.4610 by changing the saturation by 10% instead.



■ 50.1475, 50.8589,  
69.4610

■ 50.1475, 50.8589,  
69.4610

377.6849,  
390.0153, 477.3931

■ 35.7489, 36.0963,  
50.6132

■ 89.5839, 91.4462,  
120.1137

■ 24.4095, 24.5086,  
35.5262

115.3524,  
118.0397, 152.7556

■ 15.7641, 15.7113,  
23.7817

145.6416,  
149.3456, 190.8326

■ 9.4471, 9.3201,  
14.9611

180.8168,  
185.7483, 234.7633

■ 5.0934, 4.9506,  
8.6458

221.2433,  
227.6322, 284.9661

■ 2.3375, 2.2183,  
4.4172

267.2867,

■ 0.8137, 0.7299,

275.3818, 341.8597

1.8569

319.3121,  
329.3814, 405.8625

■ 0.0000, 0.0000,  
0.4651

■ 0.0000, 0.0000,  
0.0000

■ 50.1475, 50.8589,  
69.4610

■ 50.1475, 50.8589,  
69.4610

■ 41.1692, 40.0411,  
67.8470

■ 60.5583, 63.4032,  
71.3344

■ 33.5564, 30.8684,  
66.4777

■ 72.4556, 77.7383,  
73.4743

■ 27.2437, 23.2620,  
65.3422

■ 85.8962, 93.9328,  
75.8917

■ 22.1584, 17.1345,  
64.4275

■ 88.8838, 97.5335,  
76.4293

■ 18.2207, 12.3898,  
63.7192

■ 15.3415, 8.9204,  
63.2013

■ 13.4185, 6.6032,  
62.8554

■ 12.3292, 5.2905,  
62.6594

■ 11.8840, 4.7540,  
62.5794

# Harmonies

## Analogous

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



47.6142, 50.8589, 70.4080



50.1475, 50.8589, 69.4610



52.2635, 50.8589, 64.5753

# Triad

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



50.1475, 50.8589, 69.4610



51.4532, 50.8589, 45.1360



43.6648, 50.8589, 53.3141

# Complementary

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



50.1475, 50.8589, 69.4610



59.6647, 64.6715, 56.3530

# 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.



44.6177, 50.8589, 47.0960



50.1475, 50.8589, 69.4610



49.0729, 50.8589, 42.6532

# Square

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



50.1475, 50.8589, 69.4610



53.0356, 50.8589, 50.4188



46.5762, 50.8589, 43.3379



43.9298, 50.8589, 60.6494



# Rectangle

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



50.1475, 50.8589, 69.4610



53.1238, 50.8589, 59.9589



46.5762, 50.8589, 43.3379



43.8521, 50.8589, 51.0341

# Sweetspot

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



50.1490, 50.8610, 69.4621



88.2287, 91.7810, 107.6731



55.8691, 62.3851, 71.1098



18.6188, 19.3247, 22.9987



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.



50.1490, 50.8610, 69.4621



72.7645, 73.1481, 104.8916



53.2303, 52.4487, 69.6062



11.7428, 12.0089, 15.6366



7.3366, 2.9349, 38.6330



0.4425, 0.1771, 2.3302



# Inverse Universe

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



53.8925, 53.1267, 54.4302



79.4760, 77.2102, 77.9417



56.3112, 62.9436, 56.1962



12.4234, 12.4208, 12.9036



16.7620, 8.6411, 0.7849

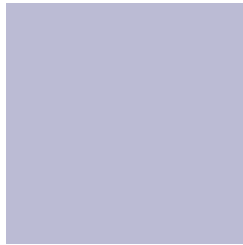


1.0110, 0.5212, 0.0474



# Previews

## White Background



This preview shows how the XYZ color 50.1475, 50.8589, 69.4610 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

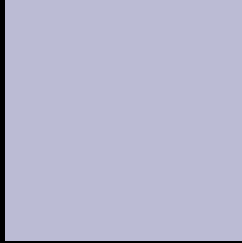
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.1475, 50.8589, 69.4610 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

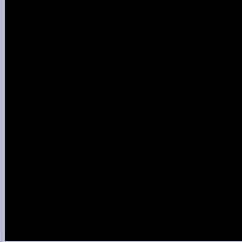
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 50.1475, 50.8589, 69.4610

## Background



This preview shows how black text looks on a background with the XYZ color 50.1475, 50.8589, 69.4610.



This preview shows how white text looks on a background with the XYZ color 50.1475, 50.8589,

69.4610.

# 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

50.1475, 50.8589, 69.4610

### Protanopia

49.8745, 51.0342, 69.5093

### Deuteranopia

51.9157, 50.8208, 70.0239



## Tritanopia

49.0124, 50.7173, 63.7061

# Trichromacy



## Original Color

50.1475, 50.8589, 69.4610

## Protanomaly

50.1166, 51.1590, 69.5206

## Deuteranomaly

51.3515, 50.8395, 70.0573

## Tritanomaly

49.3735, 50.8618, 65.6076

# Monochromacy



## Original Color

50.1475, 50.8589, 69.4610

## Achromatopsia

48.9429, 51.4918, 56.0745

## Achromatomaly

49.3769, 51.2912, 60.7238

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.1475, 50.8589, 69.4610 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(187, 187, 212)` looks like.

```
.text, #text, p{  
    color:rgb(187, 187, 212)  
}
```

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(187, 187, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 187, 212) }
```

## Border

The CSS property to change the border of an element to XYZ 50.1475, 50.8589, 69.4610 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(187, 187, 212) }
```



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

```
.border{ border-color:rgb(187, 187, 212) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 187, 212)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 187, 212); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 187, 212);  
box-shadow:4px 4px 4px 4px rgb(187, 187,  
212) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.1475, 50.8589, 69.4610 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 187, 212) }
```

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

```
.background{ background-color: rgb(187,  
187, 212) }
```

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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