

# Converting Colors

XYZ(47.8951, 49.8541, 55.4881)

Have a look what the booklet for  
XYZ(47.8951, 49.8541, 55.4881)  
contains.

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# Color

**XYZ(47.9419, 50.0336,  
55.2748)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BDBBBD
RGB	189, 187, 189
RGB Percent	74%, 73%, 74%
CMY	0.2588, 0.2666, 0.2588
CMYK	0.00, 0.01, 0.00, 0.26
HSL	300°, 1%, 74%
HSV	300°, 1%, 74%
XYZ	47.9419, 50.0336, 55.2748
YIQ	187.8260, 0.5500, 1.0460

# Conversions

## Conversions Part 2

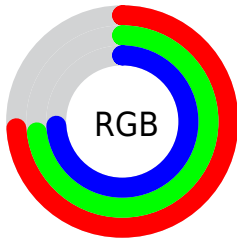
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	189, 187, 189
Decimal	12434365
CIE Lab	76.09, 1.07, -0.77
CIE LCh	76, 1.320, 324.311
Yxy	50.0336, 0.3128, 0.3265
Android (android.graphics.Color)	4290624445 (0xFFBDBBBD)
YUV	187.8260, 0.5788, 1.0296
Hunter-Lab	70.7344, -2.8027, 3.1825

# Details

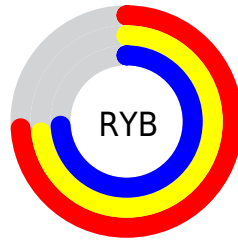
The XYZ color **47.9419, 50.0336, 55.2748** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **47.6627, 50.5492, 54.2612**, and the grayscale version is **47.6990, 50.1831, 54.6494**.

A 20% lighter version of the original color is **86.1882, 90.1062, 99.2358**, and **23.1224, 24.0620, 26.7183** is the 20% darker color. If you saturate the color by 10%, you get **44.1935, 42.5368, 54.0261**, and if you desaturate by 10%, it is **52.2209, 58.5901, 56.7016**.

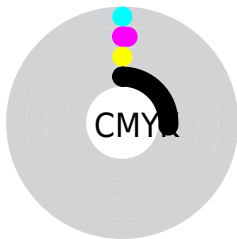
# Distribution



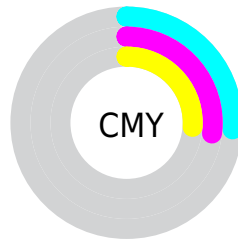
- Red (74%)
- Green (73%)
- Blue (74%)



- Red (74%)
- Yellow (73%)
- Blue (74%)



- Cyan (0%)
- Magenta (1%)
- Yellow (0%)
- Black (26%)



- Cyan (26%)
- Magenta (27%)
- Yellow (26%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.9419, 50.0336, 55.2748 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 47.9419, 50.0336, 55.2748 by changing the saturation by 10% instead.



■ 47.9419, 50.0336,  
55.2748

■ 47.9419, 50.0336,  
55.2748

369.1482,  
386.7973, 424.2640

■ 33.9919, 35.4401,  
39.2217

■ 86.3281, 90.2247,  
99.4186

■ 23.0503, 24.0021,  
26.6231

111.4951,  
116.5910, 128.3465

■ 14.7515, 15.3352,  
17.0604

141.1317,  
147.6504, 162.4029

■ 8.7304, 9.0550,  
10.1152

175.6035,  
183.7873, 202.0066

■ 4.6214, 4.7770,  
5.3688

215.2756,  
225.3860, 247.5760

■ 2.0594, 2.1170,  
2.4027

260.5136,

■ 0.6670, 0.6742,

272.8310, 299.5297

0.7879

311.6827,  
326.5066, 358.2862

■ 0.0000, 0.0000,  
0.0000

■ 47.9419, 50.0336,  
55.2748

■ 47.9419, 50.0336,  
55.2748

■ 44.1935, 42.5368,  
54.0261

■ 52.2209, 58.5901,  
56.7016

■ 40.9509, 36.0523,  
52.9453

■ 57.0454, 68.2386,  
58.3097

■ 38.1938, 30.5388,  
52.0264

■ 62.4354, 79.0178,  
60.1062

■ 35.8988, 25.9495,  
51.2616

■ 65.9339, 86.0141,  
61.2722

■ 34.0407, 22.2339,  
50.6423

■ 65.9343, 86.0143,  
61.2722

■ 32.5917, 19.3366,  
50.1595

■ 65.9348, 86.0146,  
61.2723

■ 31.5210, 17.1958,  
49.8027

■ 65.9352, 86.0148,  
61.2723

■ 30.7933, 15.7412,  
49.5603

■ 65.9357, 86.0150,  
61.2723

■ 30.3669, 14.8889,  
49.4182

■ 65.9361, 86.0153,  
61.2723

# Harmonies

## Analogous

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



47.7511, 50.0336, 55.7260



47.9419, 50.0336, 55.2748



48.0292, 50.0336, 54.6129

# Triad

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



47.9419, 50.0336, 55.2748



47.6025, 50.0336, 53.1369



47.1243, 50.0336, 55.0395

# Complementary

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



47.9419, 50.0336, 55.2748



47.6627, 50.5492, 54.2612

# 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.



47.0848, 50.0336, 54.3435



47.9419, 50.0336, 55.2748



47.3603, 50.0336, 53.2489

# Square

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



47.9419, 50.0336, 55.2748



47.8328, 50.0336, 53.3817



47.1711, 50.0336, 53.6891



47.2791, 50.0336, 55.5894



# Rectangle

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



47.9419, 50.0336, 55.2748



48.0167, 50.0336, 54.1428



47.1711, 50.0336, 53.6891



47.0971, 50.0336, 54.8147

# Sweetspot

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



47.9433, 50.0358, 55.2759



86.6293, 91.1408, 99.2523



47.4585, 49.7963, 55.2552



18.6292, 19.5994, 21.3438



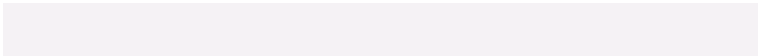
90.7827, 95.5105, 104.0109

# Same Dimension

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



47.9433, 50.0358, 55.2759



85.8943, 89.6708, 99.0073



47.8389, 49.9940, 54.7259



10.6383, 11.1129, 12.2565



20.2974, 9.7497, 33.2050



0.7951, 0.3819, 1.3007

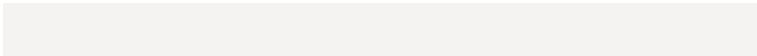


# Inverse Universe

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



47.7281, 49.9497, 54.1421



85.5234, 89.5225, 97.0541



47.7664, 50.5907, 54.8073



10.5960, 11.0960, 12.0339



14.1203, 7.2793, 0.6613



0.5531, 0.2851, 0.0260



# Previews

## White Background



This preview shows how the XYZ color 47.9419, 50.0336, 55.2748 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 47.9419, 50.0336, 55.2748 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

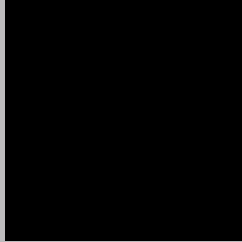
Any Text WCAG AAA ✓ Pass

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

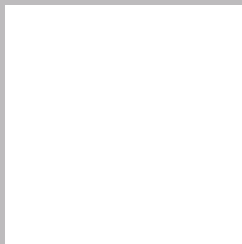


**XYZ 47.9419, 50.0336, 55.2748**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.9419, 50.0336, 55.2748.



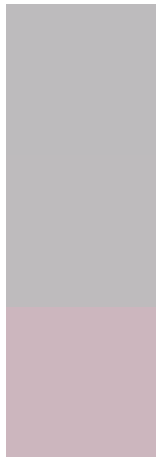
This preview shows how white text looks on a background with the XYZ color 47.9419, 50.0336,



# 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

47.9419, 50.0336, 55.2748

### Protanopia

48.1908, 50.1619, 55.2864

### Deuteranopia

50.9241, 50.0110, 55.6843



## Tritanopia

49.2601, 49.9444, 61.6875

# Trichromacy



## Original Color

47.9419, 50.0336, 55.2748

## Protanomaly

48.1908, 50.1619, 55.2864

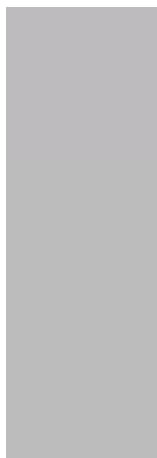
## Deuteranomaly

49.9879, 50.1408, 55.7587

## Tritanomaly

48.7579, 50.0505, 59.3154

# Monochromacy



## Original Color

47.9419, 50.0336, 55.2748

## Achromatopsia

47.7994, 50.2886, 54.7643

## Achromatomaly

47.7994, 50.2886, 54.7643

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.9419, 50.0336, 55.2748 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, 187, 189)` looks like.

```
.text, #text, p{  
    color:rgb(189, 187, 189)  
}
```

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, 187, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 187, 189) }
```

## Border

The CSS property to change the border of an element to XYZ 47.9419, 50.0336, 55.2748 is called "border". The border property can be set on classes, ids or directly on the HTML element.

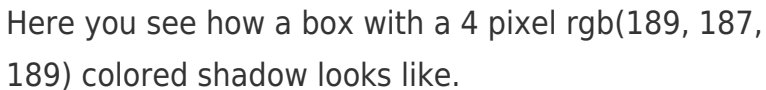
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(189, 187, 189) }
```

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

```
.border{ border-color:rgb(189, 187, 189) }
```

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



Here you see how a box with a 4 pixel `rgb(189, 187, 189)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(189, 187, 189); -webkit-box-shadow:4px 4px 4px 4px rgb(189, 187, 189); box-shadow:4px 4px 4px 4px rgb(189, 187, 189) }
```



# Background

The CSS property to change the background color of an element to XYZ 47.9419, 50.0336, 55.2748 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 187, 189) }
```

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

```
.background{ background-color: rgb(189,  
187, 189) }
```

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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