

# Converting Colors

XYZ(48.4391, 51.0044, 54.9393)

Have a look what the booklet for  
XYZ(48.4391, 51.0044, 54.9393)  
contains.

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# **Color**

**XYZ(48.2610, 50.8448,  
54.8474)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BDBDBC
RGB	189, 189, 188
RGB Percent	74%, 74%, 74%
CMY	0.2588, 0.2588, 0.2627
CMYK	0.00, 0.00, 0.01, 0.26
HSL	60°, 1%, 74%
HSV	60°, 1%, 74%
XYZ	48.2610, 50.8448, 54.8474
YIQ	188.8860, 0.3210, -0.3110

# Conversions

## Conversions Part 2

Format	Color
R <sub>YB</sub>	188, 189, 188
Decimal	12434876
CIE Lab	76.58, -0.18, 0.50
CIE LCh	77, 0.527, 109.991
Yxy	50.8448, 0.3135, 0.3303
Android (android.graphics.Color)	4290624956 (0xFFBDBDBC)
YUV	188.8860, -0.4368, 0.1000
Hunter-Lab	71.3055, -3.9724, 4.3087

# Details

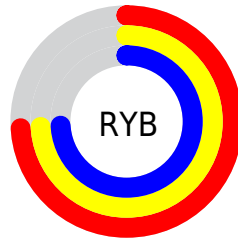
The XYZ color **48.2610, 50.8448, 54.8474** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **47.9094, 50.3333, 55.3368**, and the grayscale version is **48.3081, 50.8239, 55.3472**.

A 20% lighter version of the original color is **86.6377, 91.2489, 98.6345**, and **23.3307, 24.5918, 26.4387** is the 20% darker color. If you saturate the color by 10%, you get **46.3429, 50.0776, 44.8093**, and if you desaturate by 10%, it is **50.4489, 51.7231, 66.2932**.

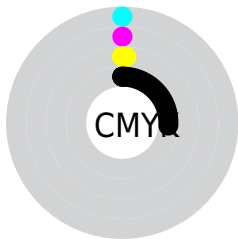
# Distribution



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



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



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



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

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.2610, 50.8448, 54.8474 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 48.2610, 50.8448, 54.8474 by changing the saturation by 10% instead.



■ 48.2610, 50.8448,  
54.8474

■ 48.2610, 50.8448,  
54.8474

370.3911,  
389.9605, 422.5988

■ 34.2457, 36.0851,  
38.8818

■ 86.8002, 91.4253,  
98.7862

■ 23.2462, 24.4999,  
26.3606

112.0549,  
118.0149, 127.5966

■ 14.8971, 15.7049,  
16.8655

141.7867,  
149.3167, 161.5255

■ 8.8331, 9.3156,  
9.9777

176.3611,  
185.7149, 200.9916

■ 4.6887, 4.9476,  
5.2787

216.1434,  
227.5940, 246.4135

■ 2.0987, 2.2165,  
2.3501

261.4989,

■ 0.6885, 0.7290,

275.3383, 298.2096

0.7591

312.7931,  
329.3324, 356.7986

■ 0.0000, 0.0000,  
0.0000

■ 48.2610, 50.8448,  
54.8474

■ 48.2610, 50.8448,  
54.8474

■ 46.3429, 50.0776,  
44.8093

■ 50.4489, 51.7231,  
66.2932

■ 44.6799, 49.4109,  
36.1213

■ 52.9120, 52.7099,  
79.1946

■ 43.2626, 48.8425,  
28.7269

■ 55.6610, 53.8110,  
93.6014

■ 42.0792, 48.3676,  
22.5642

■ 57.2882, 54.4634,  
102.1008

■ 41.1170, 47.9812,  
17.5664

■ 57.3014, 54.4702,  
102.1014

■ 40.3621, 47.6777,  
13.6602

■ 57.3147, 54.4771,  
102.1021

■ 39.7991, 47.4509,  
10.7641

■ 57.3280, 54.4839,  
102.1027

■ 39.4102, 47.2939,  
8.7852

■ 57.3413, 54.4908,  
102.1033

■ 39.1746, 47.1981,  
7.6133

■ 57.3545, 54.4976,  
102.1039

# Harmonies

## Analogous

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



48.3598, 50.8448, 54.8229



48.2610, 50.8448, 54.8474



48.1799, 50.8448, 55.0094

# Triad

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



48.2610, 50.8448, 54.8474



48.2034, 50.8448, 55.7826



48.5153, 50.8448, 55.4567

# Complementary

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



48.2610, 50.8448, 54.8474



47.9094, 50.3333, 55.3368

# 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.



48.4733, 50.8448, 55.7148



48.2610, 50.8448, 54.8474



48.2932, 50.8448, 55.9033

# Square

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



48.2610, 50.8448, 54.8474



48.1467, 50.8448, 55.5491



48.3920, 50.8448, 55.8785



48.5067, 50.8448, 55.1740



# Rectangle

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



48.2610, 50.8448, 54.8474



48.1467, 50.8448, 55.1738



48.3920, 50.8448, 55.8785



48.5067, 50.8448, 55.5493

# Sweetspot

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



48.2624, 50.8470, 54.8485



86.6293, 91.1408, 99.2523



48.0481, 50.4173, 54.7769



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.



48.2624, 50.8470, 54.8485



86.2559, 90.9911, 97.2987



48.1389, 50.7833, 54.8427



10.6795, 11.2634, 12.0618



26.2764, 31.7219, 4.7380



1.0301, 1.2430, 0.1856

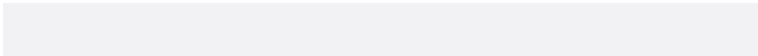


# Inverse Universe

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



47.9094, 50.3333, 55.3368



85.0492, 89.2352, 98.9677



48.0325, 50.3967, 55.3426



10.5420, 11.0633, 12.2520



6.1858, 2.4749, 32.5446

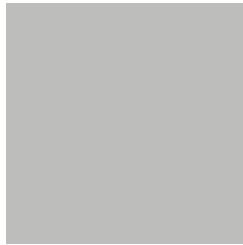


0.2432, 0.0974, 1.2748



# Previews

## White Background



This preview shows how the XYZ color 48.2610, 50.8448, 54.8474 looks on a white background.

## Color Contrast Check

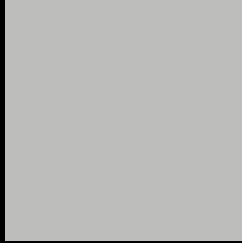
Large Text (above 18pt) WCAG AA × Fail

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 48.2610, 50.8448, 54.8474 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

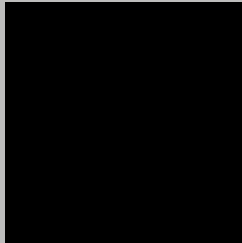
Any Text WCAG AAA ✓ Pass

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

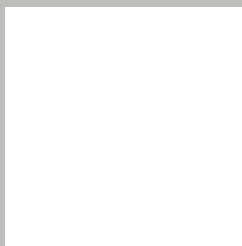


**XYZ 48.2610, 50.8448, 54.8474**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.2610, 50.8448, 54.8474.



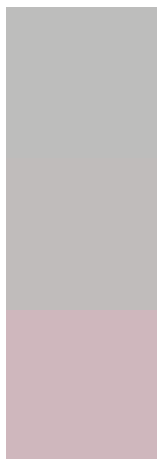
This preview shows how white text looks on a background with the XYZ color 48.2610, 50.8448,



# 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

48.2610, 50.8448, 54.8474

### Protanopia

48.6911, 50.7608, 54.2452

### Deuteranopia

51.8509, 50.8065, 55.2179



## Tritanopia

49.9169, 50.8813, 63.0673

# Trichromacy



## Original Color

48.2610, 50.8448, 54.8474

## Protanomaly

48.4387, 50.6307, 54.2334

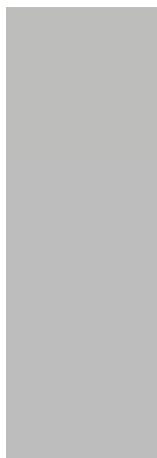
## Deuteranomaly

50.3537, 50.6514, 55.2669

## Tritanomaly

49.2965, 50.9448, 60.0585

# Monochromacy



## Original Color

48.2610, 50.8448, 54.8474

## Achromatopsia

48.3692, 50.8881, 55.4172

## Achromatomaly

48.3692, 50.8881, 55.4172

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.2610, 50.8448, 54.8474 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, 189, 188)` looks like.

```
.text, #text, p{  
    color:rgb(189, 189, 188)  
}
```

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, 189, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 189, 188) }
```

## Border

The CSS property to change the border of an element to XYZ 48.2610, 50.8448, 54.8474 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, 189, 188) }
```

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

```
.border{ border-color:rgb(189, 189, 188) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 189, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 189, 188); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 189, 188);  
box-shadow:4px 4px 4px 4px rgb(189, 189,  
188) }
```



# Background

The CSS property to change the background color of an element to XYZ 48.2610, 50.8448, 54.8474 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 189, 188) }
```

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

```
.background{ background-color: rgb(189,  
189, 188) }
```

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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