

# Converting Colors

XYZ(48.5928, 51.3374, 55.1878)

Have a look what the booklet for  
XYZ(48.5928, 51.3374, 55.1878)  
contains.

<b>XYZ(48.4768, 51.2766, 54.9193)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	23
<b><i>Color Blindness Simulation</i></b> .....	27
<b><i>CSS Examples</i></b> .....	30

# Color

**XYZ(48.4768, 51.2766,  
54.9193)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BDBEBC
RGB	189, 190, 188
RGB Percent	74%, 75%, 74%
CMY	0.2588, 0.2549, 0.2627
CMYK	0.01, 0.00, 0.01, 0.25
HSL	90°, 2%, 74%
HSV	90°, 1%, 75%
XYZ	48.4768, 51.2766, 54.9193
YIQ	189.4730, 0.0460, -0.8340

# Conversions

## Conversions Part 2

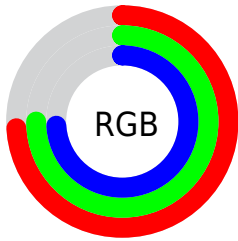
Format	Color
<a href="#">RYB</a>	<a href="#">188, 190, 189</a>
Decimal	<a href="#">12435132</a>
CIELab	<a href="#">76.85, -0.71, 0.88</a>
CIELCh	<a href="#">77, 1.130, 129.128</a>
Yxy	<a href="#">51.2766, 0.3134, 0.3315</a>
Android (android.graphics.Color)	<a href="#">4290625212 (0xFFBDBEBC)</a>
YUV	<a href="#">189.4730, -0.7262, -0.4148</a>
Hunter-Lab	<a href="#">71.6077, -4.4729, 4.6531</a>

# Details

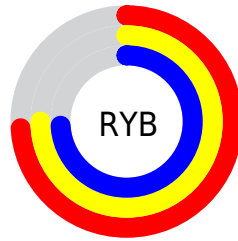
The XYZ color **48.4768, 51.2766, 54.9193** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **48.2658, 50.5044, 55.9223**, and the grayscale version is **48.6459, 51.1793, 55.7343**.

A 20% lighter version of the original color is **86.9411, 91.8557, 98.7356**, and **23.4722, 24.8748, 26.4859** is the 20% darker color. If you saturate the color by 10%, you get **44.2780, 49.3348, 44.7254**, and if you desaturate by 10%, it is **53.1032, 53.4106, 66.5431**.

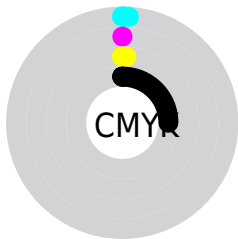
# Distribution



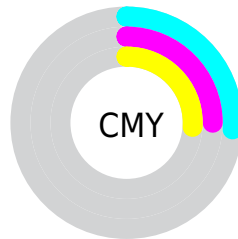
- Red (74%)
- Green (75%)
- Blue (74%)



- Red (74%)
- Yellow (75%)
- Blue (74%)



- Cyan (1%)
- Magenta (0%)
- Yellow (1%)
- Black (25%)



- Cyan (26%)
- Magenta (25%)
- Yellow (26%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.4768, 51.2766, 54.9193 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 48.4768, 51.2766, 54.9193 by changing the saturation by 10% instead.



■ 48.4768, 51.2766,  
54.9193

■ 48.4768, 51.2766,  
54.9193

371.2302,  
391.6375, 422.8793

■ 34.4174, 36.4288,  
38.9390

■ 87.1193, 92.0635,  
98.8927

■ 23.3789, 24.7655,  
26.4048

112.4331,  
118.7714, 127.7228

■ 14.9958, 15.9025,  
16.8982

142.2292,  
150.2014, 161.6732

■ 8.9027, 9.4552,  
10.0008

176.8728,  
186.7380, 201.1625

■ 4.7344, 5.0392,  
5.2939

216.7294,  
228.7655, 246.6092

■ 2.1254, 2.2703,  
2.3589

262.1642,

■ 0.7030, 0.7579,

276.6683, 298.4319

0.7640

313.5427,  
330.8308, 357.0491

■ 0.0000, 0.0000,  
0.0000

■ 48.4768, 51.2766,  
54.9193

■ 48.4768, 51.2766,  
54.9193

■ 44.2780, 49.3348,  
44.7254

■ 53.1032, 53.4106,  
66.5431

■ 40.4892, 47.5729,  
35.9028

■ 58.1656, 55.7356,  
79.6455

■ 37.0974, 45.9871,  
28.3939

■ 63.6777, 58.2590,  
94.2773

■ 34.0878, 44.5710,  
22.1355

■ 68.1672, 60.3923,  
102.6718

■ 31.4440, 43.3177,  
17.0596

■ 71.2546, 61.9839,  
102.8163

■ 29.1486, 42.2198,  
13.0912

■ 74.5106, 63.6625,  
102.9687

■ 27.1824, 41.2693,  
10.1473

■ 77.7045, 65.3090,  
103.1182

■ 25.5237, 40.4571,  
8.1326

■ 24.1472, 39.7726,  
6.9344

# Harmonies

## Analogous

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



48.6714, 51.2766, 54.6722



48.4768, 51.2766, 54.9193



48.3521, 51.2766, 55.4113

# Triad

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



48.4768, 51.2766, 54.9193



48.5899, 51.2766, 56.9436



49.1456, 51.2766, 55.6441

# Complementary

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



48.4768, 51.2766, 54.9193



48.2658, 50.5044, 55.9223

# 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.



49.1237, 51.2766, 56.2538



48.4768, 51.2766, 54.9193



48.8024, 51.2766, 57.0071

# Square

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



48.4768, 51.2766, 54.9193



48.4173, 51.2766, 56.5810



48.9979, 51.2766, 56.7537



49.0578, 51.2766, 55.0887



# Rectangle

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



48.4768, 51.2766, 54.9193



48.3252, 51.2766, 55.8135



48.9979, 51.2766, 56.7537



49.1508, 51.2766, 55.8495

# Sweetspot

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



48.4782, 51.2788, 54.9204



88.6918, 93.3107, 101.6153



48.5119, 50.9751, 54.8600



19.4759, 20.4902, 22.3138



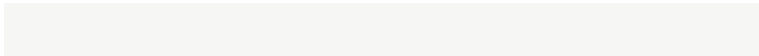
92.9021, 97.7402, 106.4391

# Same Dimension

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



48.4782, 51.2788, 54.9204



87.8754, 92.9337, 99.5939



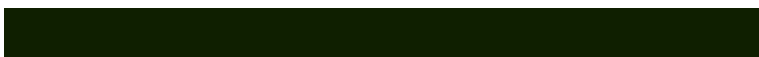
48.2311, 51.1514, 54.9089



10.6313, 11.2385, 12.0595



15.4596, 26.1456, 4.2318



0.6810, 1.0630, 0.1693

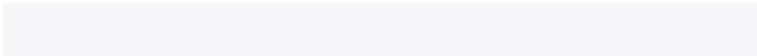


# Inverse Universe

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



48.2658, 50.5044, 55.9223



87.5043, 91.5809, 101.3440



48.5147, 50.6327, 55.9340



10.5900, 11.0880, 12.2543



9.4217, 4.1431, 32.6960

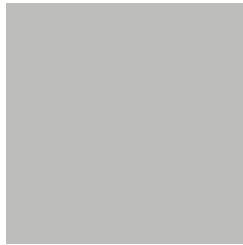


0.4445, 0.2012, 1.2843



# Previews

## White Background



This preview shows how the XYZ color 48.4768, 51.2766, 54.9193 looks on a white background.

## Color Contrast Check

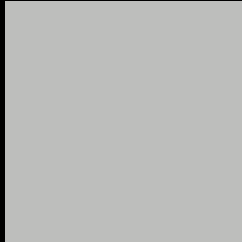
Large Text (above 18pt) WCAG AA × Fail

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 48.4768, 51.2766, 54.9193 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

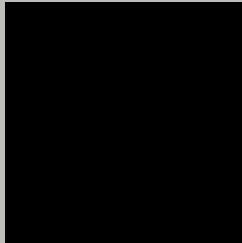
Any Text WCAG AAA ✓ Pass

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

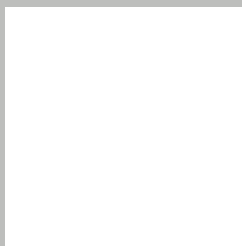


**XYZ 48.4768, 51.2766, 54.9193**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.4768, 51.2766, 54.9193.



This preview shows how white text looks on a background with the XYZ color 48.4768, 51.2766,



# 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

48.4768, 51.2766, 54.9193

### Protanopia

49.1596, 51.3205, 54.3286

### Deuteranopia

52.3382, 51.3650, 55.3000



## Tritanopia

50.2486, 51.3546, 63.7640

# Trichromacy



## Original Color

48.4768, 51.2766, 54.9193

## Protanomaly

48.9055, 51.1895, 54.3167

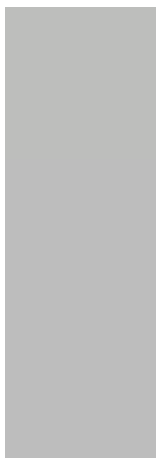
## Deuteranomaly

50.8316, 51.2094, 55.3494

## Tritanomaly

49.6258, 51.4196, 60.7355

# Monochromacy



## Original Color

48.4768, 51.2766, 54.9193

## 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 48.4768, 51.2766, 54.9193 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, 190, 188)` looks like.

```
.text, #text, p{  
    color:rgb(189, 190, 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, 190, 188) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 190, 188) }
```

## Border

The CSS property to change the border of an element to XYZ 48.4768, 51.2766, 54.9193 is called "border". The border property can be set on classes, ids or directly on the HTML element.

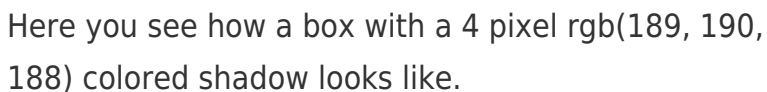
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(189, 190, 188) }
```

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

```
.border{ border-color:rgb(189, 190, 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, 190, 188)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(189, 190, 188); -webkit-box-shadow:4px 4px 4px 4px rgb(189, 190, 188); box-shadow:4px 4px 4px 4px rgb(189, 190, 188) }
```



# Background

The CSS property to change the background color of an element to XYZ 48.4768, 51.2766, 54.9193 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 190, 188) }
```

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

```
.background{ background-color: rgb(189,  
190, 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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