

# Converting Colors

XYZ(46.9948, 49.4422, 53.8425)

Have a look what the booklet for  
XYZ(46.9948, 49.4422, 53.8425)  
contains.

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# Color

**XYZ(47.2335, 49.6933,  
54.1160)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BBBBBB
RGB	187, 187, 187
RGB Percent	73%, 73%, 73%
CMY	0.2667, 0.2666, 0.2667
CMYK	0.00, 0.00, 0.00, 0.27
HSL	119°, 0%, 73%
HSV	119°, 0%, 73%
XYZ	47.2335, 49.6933, 54.1160
YIQ	187.0000, -0.0000, -0.0000

# Conversions

## Conversions Part 2

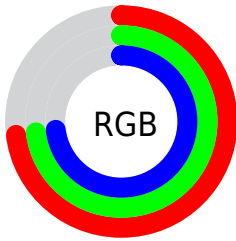
Format	Color
R <sub>Y</sub> B	187, 187, 187
Decimal	12303291
CIE Lab	75.88, 0.00, -0.01
CIE LCh	76, 0.009, 297.106
Yxy	49.6933, 0.3127, 0.3290
Android (android.graphics.Color)	4290493371 (0xFFBBBBBB)
YUV	187.0000, 0.0000, 0.0000
Hunter-Lab	70.4935, -3.7613, 3.8300

# Details

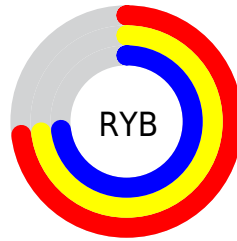
The XYZ color **47.2335, 49.6933, 54.1160** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **47.2353, 49.6946, 54.1187**, and the grayscale version is **47.2353, 49.6952, 54.1181**.

A 20% lighter version of the original color is **85.1904, 89.6269, 97.6037**, and **22.6597, 23.8398, 25.9615** is the 20% darker color. If you saturate the color by 10%, you get **41.1159, 46.7574, 44.0510**, and if you desaturate by 10%, it is **54.1998, 53.0394, 65.5837**.

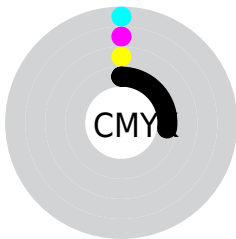
# Distribution



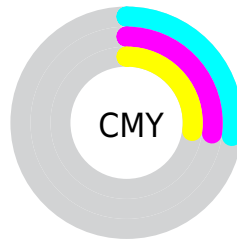
- Red (73%)
- Green (73%)
- Blue (73%)



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



- Cyan (0%)
- Magenta (0%)
- Yellow (0%)
- Black (27%)



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

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.2335, 49.6933, 54.1160 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 47.2335, 49.6933, 54.1160 by changing the saturation by 10% instead.



■ 47.2335, 49.6933,  
54.1160

■ 47.2335, 49.6933,  
54.1160

366.3792,  
385.4653, 419.7393

■ 33.4290, 35.1698,  
38.3006

■ 85.2787, 89.7203,  
97.7027

■ 22.6161, 23.7937,  
25.9124

110.2501,  
115.9925, 126.3110

■ 14.4294, 15.1806,  
16.5330

139.6745,  
146.9498, 160.0208

■ 8.5036, 8.9463,  
9.7437

173.9173,  
182.9765, 199.2504

■ 4.4734, 4.7061,  
5.1259

213.3438,  
224.4570, 244.4186

■ 1.9733, 2.0759,  
2.2613

258.3193,

■ 0.6189, 0.6510,

271.7757, 295.9438

0.7094

309.2094,  
325.3170, 354.2445

■ 0.0000, 0.0000,  
0.0000

■ 47.2335, 49.6933,  
54.1160

■ 47.2335, 49.6933,  
54.1160

■ 41.1159, 46.7574,  
44.0510

■ 54.1998, 53.0394,  
65.5837

■ 35.8104, 44.2099,  
35.3317

■ 62.0410, 56.8039,  
78.5017

■ 31.2843, 42.0363,  
27.9022

■ 70.7875, 61.0028,  
92.9191

■ 27.5009, 40.2192,  
21.7012

■ 77.0613, 64.0226,  
102.9038

■ 24.4206, 38.7396,  
16.6626

■ 21.9999, 37.5766,  
12.7140

■ 20.1908, 36.7071,  
9.7750

■ 18.9387, 36.1051,  
7.7540

■ 18.1792, 35.7395,  
6.5429

# Harmonies

## Analogous

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



47.2318, 49.6933, 54.1170



47.2335, 49.6933, 54.1160



47.2348, 49.6933, 54.1127

# Triad

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



47.2335, 49.6933, 54.1160



47.2338, 49.6933, 54.0996



47.2287, 49.6933, 54.1071

# Complementary

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



47.2335, 49.6933, 54.1160



47.2353, 49.6946, 54.1187

# 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.



47.2292, 49.6933, 54.1024



47.2335, 49.6933, 54.1160



47.2322, 49.6933, 54.0981

# Square

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



47.2335, 49.6933, 54.1160



47.2349, 49.6933, 54.1032



47.2305, 49.6933, 54.0991



47.2290, 49.6933, 54.1119



# Rectangle

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



47.2335, 49.6933, 54.1160



47.2352, 49.6933, 54.1097



47.2305, 49.6933, 54.0991



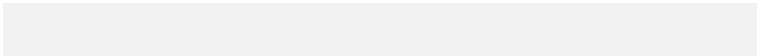
47.2288, 49.6933, 54.1054

# Sweetspot

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



47.2349, 49.6954, 54.1171



84.5950, 89.0005, 96.9216



47.2357, 49.6958, 54.1171



18.6292, 19.5994, 21.3438



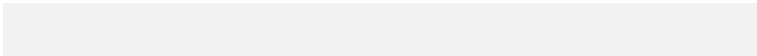
90.7827, 95.5105, 104.0109

# Same Dimension

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



47.2349, 49.6954, 54.1171



84.5950, 89.0005, 96.9216



47.2351, 49.6955, 54.1179



10.7221, 11.2805, 12.2844



12.2618, 24.4971, 4.0821



0.4831, 0.9610, 0.1600

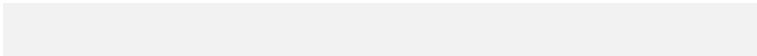


# Inverse Universe

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



47.2353, 49.6946, 54.1187



84.5950, 89.0005, 96.9216



47.2352, 49.6946, 54.1178



10.7221, 11.2805, 12.2844



20.0212, 9.6074, 33.1921



0.7870, 0.3778, 1.3003



# Previews

## White Background



This preview shows how the XYZ color 47.2335, 49.6933, 54.1160 looks on a white background.

## Color Contrast Check

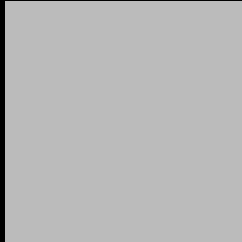
Large Text (above 18pt) WCAG AA × Fail

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 47.2335, 49.6933, 54.1160 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

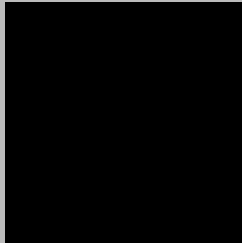
Any Text WCAG AAA ✓ Pass

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

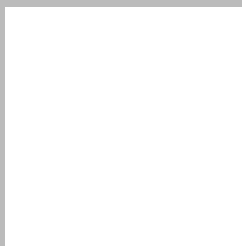


**XYZ 47.2335, 49.6933, 54.1160**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.2335, 49.6933, 54.1160.



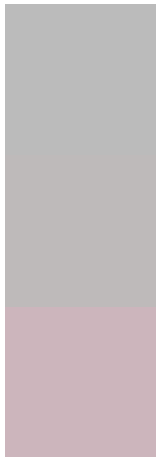
This preview shows how white text looks on a background with the XYZ color 47.2335, 49.6933,



# 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

47.2335, 49.6933, 54.1160

### Protanopia

47.6570, 49.6101, 53.5183

### Deuteranopia

50.5028, 49.5160, 54.4727



## Tritanopia

48.7606, 49.6869, 61.6641

# Trichromacy



## Original Color

47.2335, 49.6933, 54.1160

## Protanomaly

47.4081, 49.4818, 53.5066

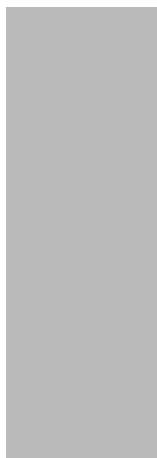
## Deuteranomaly

49.2993, 49.5036, 54.5337

## Tritanomaly

48.1483, 49.7493, 58.6946

# Monochromacy



## Original Color

47.2335, 49.6933, 54.1160

## Achromatopsia

47.2335, 49.6933, 54.1160

## Achromatomaly

47.2335, 49.6933, 54.1160

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.2335, 49.6933, 54.1160 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, 187)` looks like.

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

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, 187) colored shadow looks like.

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

## Border

The CSS property to change the border of an element to XYZ 47.2335, 49.6933, 54.1160 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, 187) }
```

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

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

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, 187)` colored shadow looks like.

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



# Background

The CSS property to change the background color of an element to XYZ 47.2335, 49.6933, 54.1160 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, 187) }
```

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

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

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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