

Converting Colors

XYZ(46.9975, 50.0201, 50.1834)

Have a look what the booklet for
XYZ(46.9975, 50.0201, 50.1834)
contains.

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Color

**XYZ(46.9605, 49.9531,
50.3468)**

Conversions

Conversions Part 1

Format	Color
Hex	BCBCB4
RGB	188, 188, 180
RGB Percent	74%, 74%, 71%
CMY	0.2627, 0.2627, 0.2941
CMYK	0.00, 0.00, 0.04, 0.26
HSL	60°, 6%, 72%
HSV	60°, 4%, 74%
XYZ	46.9605, 49.9531, 50.3468
YIQ	187.0880, 2.5680, -2.4880

Conversions

Conversions Part 2

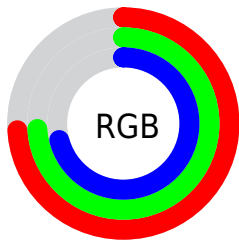
Format	Color
RYB	180, 188, 180
Decimal	12369076
CIELab	76.04, -1.45, 4.03
CIELCh	76, 4.287, 109.760
Yxy	49.9531, 0.3189, 0.3392
Android (android.graphics.Color)	4290559156 (0xFFBCBCB4)
YUV	187.0880, -3.4944, 0.7998
Hunter-Lab	70.6775, -5.0843, 7.2393

Details

The XYZ color **46.9605, 49.9531, 50.3468** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **44.2226, 45.9779, 54.1234**, and the grayscale version is **47.3030, 49.7664, 54.1956**.

A 20% lighter version of the original color is **84.7992, 89.9906, 92.2574**, and **22.4864, 24.0111, 23.5281** is the 20% darker color. If you saturate the color by 10%, you get **45.1723, 49.2392, 40.9344**, and if you desaturate by 10%, it is **49.0113, 50.7752, 61.1297**.

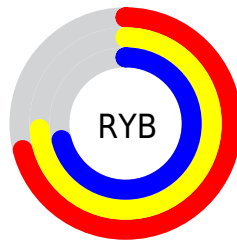
Distribution



Red (74%)

Green (74%)

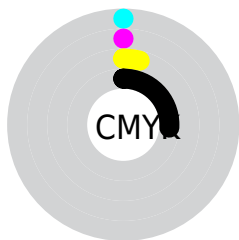
Blue (71%)



Red (71%)

Yellow (74%)

Blue (71%)

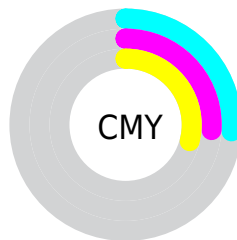


Cyan (0%)

Magenta (0%)

Yellow (4%)

Black (26%)



Cyan (26%)

Magenta (26%)

Yellow (29%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 46.9605, 49.9531, 50.3468 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 46.9605, 49.9531, 50.3468 by changing the saturation by 10% instead.

■ 46.9605, 49.9531,
50.3468

■ 46.9605, 49.9531,
50.3468

365.3084,
386.4825, 404.7945

■ 33.2122, 35.3761,
35.3159

■ 84.8738, 90.1054,
92.0901

■ 22.4491, 23.9528,
23.6208

109.7695,
116.4495, 119.6396

■ 14.3057, 15.2986,
14.8430

139.1117,
147.4848, 152.1990

■ 8.4167, 9.0292,
8.5639

173.2659,
183.5956, 190.1870

■ 4.4168, 4.7602,
4.3649

212.5972,
225.1664, 234.0219

■ 1.9405, 2.1073,
1.8276

257.4712,

■ 0.6002, 0.6687,

272.5816, 284.1225

0.4461

308.2531,
326.2255, 340.9071

■ 0.0000, 0.0000,
0.0000

■ 46.9605, 49.9531,
50.3468

■ 46.9605, 49.9531,
50.3468

■ 45.1723, 49.2392,
40.9344

■ 49.0113, 50.7752,
61.1297

■ 43.6322, 48.6230,
32.8346

■ 51.3303, 51.7031,
73.3314

■ 42.3305, 48.1020,
25.9900

■ 53.9283, 52.7425,
87.0020

■ 41.2552, 47.6717,
20.3378

■ 56.7813, 53.8839,
102.0157

■ 40.3935, 47.3268,
15.8099

■ 56.7833, 53.8849,
102.0158

■ 39.7309, 47.0615,
12.3312

■ 56.7852, 53.8860,
102.0159

■ 39.2517, 46.8696,
9.8175

■ 56.7872, 53.8870,
102.0160

■ 38.9372, 46.7436,
8.1717

■ 56.7891, 53.8880,
102.0160

■ 38.7652, 46.6746,
7.2764

■ 56.7911, 53.8890,
102.0161

Harmonies

Analogous

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



47.7531, 49.9531, 50.1672



46.9605, 49.9531, 50.3468



46.3138, 49.9531, 51.5925

Triad

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



46.9605, 49.9531, 50.3468



46.4916, 49.9531, 57.8249



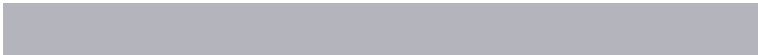
49.0096, 49.9531, 55.1778

Complementary

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



46.9605, 49.9531, 50.3468



44.2226, 45.9779, 54.1234

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.



48.6635, 49.9531, 57.2878



46.9605, 49.9531, 50.3468



47.2058, 49.9531, 58.8443

Square

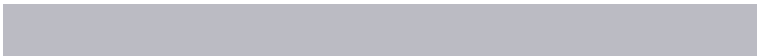
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



46.9605, 49.9531, 50.3468



46.0452, 49.9531, 55.8942



48.0011, 49.9531, 58.6450



48.9421, 49.9531, 52.9138

Rectangle

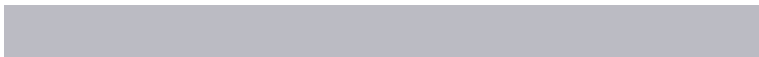
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



46.9605, 49.9531, 50.3468



46.0495, 49.9531, 52.8798



48.0011, 49.9531, 58.6450



48.9376, 49.9531, 55.9296

Sweetspot

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



46.9619, 49.9553, 50.3479



86.2580, 90.9922, 97.2988



45.3000, 46.6303, 49.7937



18.5535, 19.5691, 20.9451



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

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



46.9619, 49.9553, 50.3479



84.8218, 90.4175, 89.7434



45.9904, 49.4545, 50.3024



10.4759, 11.1820, 10.9891



26.3511, 31.7603, 4.7415



1.0323, 1.2441, 0.1857

Inverse Universe

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



44.2226, 45.9779, 54.1234



78.9279, 81.8599, 97.8668



45.1670, 46.4648, 54.1676



9.6729, 10.0162, 12.0957



6.1810, 2.4725, 32.5444



0.2422, 0.0969, 1.2748

Previews

White Background



This preview shows how the XYZ color 46.9605, 49.9531, 50.3468 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 46.9605, 49.9531, 50.3468 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

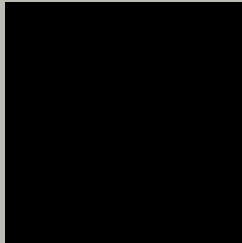
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

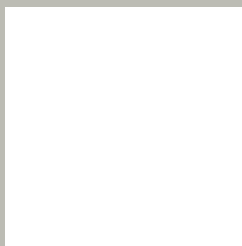
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 46.9605, 49.9531, 50.3468

Background



This preview shows how black text looks on a background with the XYZ color 46.9605, 49.9531, 50.3468.



This preview shows how white text looks on a background with the XYZ color 46.9605, 49.9531,

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

46.9605, 49.9531, 50.3468

Protanopia

47.8993, 50.1328, 49.7999

Deuteranopia

50.8768, 49.7938, 50.6457



Tritanopia

49.2601, 49.9444, 61.6875

Trichromacy



Original Color

46.9605, 49.9531, 50.3468

Protanomaly

47.3929, 49.8717, 49.7762

Deuteranomaly

49.5684, 50.0347, 50.7612

Tritanomaly

48.4197, 49.9152, 57.5347

Monochromacy



Original Color

46.9605, 49.9531, 50.3468

Achromatopsia

47.2335, 49.6933, 54.1160

Achromatomaly

46.9156, 49.5661, 52.4419

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.9605, 49.9531, 50.3468 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(188, 188, 180)` looks like.

```
.text, #text, p{  
    color:rgb(188, 188, 180)  
}
```

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(188, 188, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 188, 180) }
```

Border

The CSS property to change the border of an element to XYZ 46.9605, 49.9531, 50.3468 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(188, 188, 180) }
```


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

```
.border{ border-color:rgb(188, 188, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 188, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 188, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 188, 180);  
box-shadow:4px 4px 4px 4px rgb(188, 188,  
180) }
```

Background

The CSS property to change the background color of an element to XYZ 46.9605, 49.9531, 50.3468 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 188, 180) }
```

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

```
.background{ background-color: rgb(188,  
188, 180) }
```

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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