

# Converting Colors

XYZ(46.7998, 47.2968, 59.1560)

Have a look what the booklet for  
XYZ(46.7998, 47.2968, 59.1560)  
contains.

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# Color

**XYZ(46.7786, 47.1928,  
58.8682)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BBB4C4
RGB	187, 180, 196
RGB Percent	73%, 71%, 77%
CMY	0.2667, 0.2941, 0.2314
CMYK	0.05, 0.08, 0.00, 0.23
HSL	266°, 12%, 74%
HSV	266°, 8%, 77%
XYZ	46.7786, 47.1928, 58.8682
YIQ	183.9170, -0.9640, 6.4600

# Conversions

## Conversions Part 2

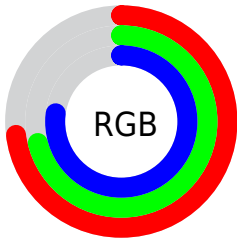
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	187, 180, 196
Decimal	12301508
CIE Lab	74.31, 5.49, -7.22
CIE LCh	74, 9.067, 307.233
Yxy	47.1928, 0.3061, 0.3088
Android (android.graphics.Color)	4290491588 (0xFFBBB4C4)
YUV	183.9170, 5.9569, 2.7038
Hunter-Lab	68.6970, 1.3282, -2.7192

# Details

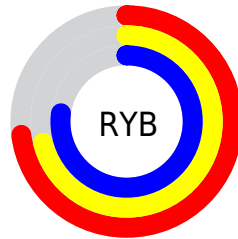
The XYZ color **46.7786, 47.1928, 58.8682** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **48.9661, 53.5952, 50.9464**, and the grayscale version is **45.4838, 47.8525, 52.1114**.

A 20% lighter version of the original color is **84.6872, 86.1374, 105.0912**, and **22.3034, 22.2001, 28.7007** is the 20% darker color. If you saturate the color by 10%, you get **40.5038, 38.4947, 57.5207**, and if you desaturate by 10%, it is **53.8229, 57.1207, 60.4139**.

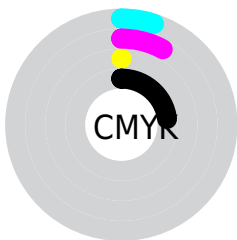
# Distribution



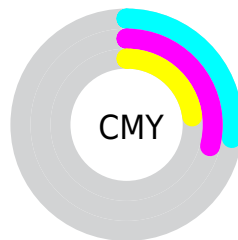
- Red (73%)
- Green (71%)
- Blue (77%)



- Red (73%)
- Yellow (71%)
- Blue (77%)



- Cyan (5%)
- Magenta (8%)
- Yellow (0%)
- Black (23%)



- Cyan (27%)
- Magenta (29%)
- Yellow (23%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.7786, 47.1928, 58.8682 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 46.7786, 47.1928, 58.8682 by changing the saturation by 10% instead.



■ 46.7786, 47.1928,  
58.8682

■ 46.7786, 47.1928,  
58.8682

364.5938,  
375.5836, 438.1016

■ 33.0679, 33.1881,  
42.0877

■ 84.6038, 86.0013,  
104.7133

■ 22.3379, 22.2706,  
28.8439

109.4490,  
111.5740, 134.6150

■ 14.2234, 14.0559,  
18.7182

138.7364,  
141.7714, 169.7276

■ 8.3590, 8.1595,  
11.2921

172.8313,  
176.9779, 210.4695

■ 4.3792, 4.1972,  
6.1470

212.0992,  
217.5780, 257.2593

■ 1.9188, 1.7845,  
2.8645

256.9053,

■ 0.5877, 0.4775,

263.9561, 310.5156

1.0258

307.6151,  
316.4965, 370.6568

■ 0.0000, 0.0000,  
0.0000

■ 46.7786, 47.1928,  
58.8682

■ 46.7786, 47.1928,  
58.8682

■ 40.5038, 38.4947,  
57.5207

■ 53.8229, 57.1207,  
60.4139

■ 34.9663, 30.9714,  
56.3604

■ 61.6589, 68.3187,  
62.1624

■ 30.1376, 24.5723,  
55.3798

■ 70.3132, 80.8326,  
64.1217

■ 25.9860, 19.2409,  
54.5695

■ 78.7139, 92.5125,  
65.9333

■ 22.4767, 14.9156,  
53.9197

■ 82.3882, 94.4067,  
66.1053

■ 19.5716, 11.5284,  
53.4190

■ 86.2908, 96.4186,  
66.2879

■ 17.2281, 9.0022,  
53.0549

■ 86.9639, 96.7656,  
66.3194

■ 15.3969, 7.2472,  
52.8126

■ 14.0050, 6.1269,  
52.6698

# Harmonies

## Analogous

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



45.2511, 47.1928, 60.8141



46.7786, 47.1928, 58.8682



47.8079, 47.1928, 54.9375

# Triad

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



46.7786, 47.1928, 58.8682



46.0792, 47.1928, 43.5445



41.8173, 47.1928, 52.5234

# Complementary

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



46.7786, 47.1928, 58.8682



48.9661, 53.5952, 50.9464

# 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.



42.0269, 47.1928, 47.9889



46.7786, 47.1928, 58.8682



44.4619, 47.1928, 42.9845

# Square

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



46.7786, 47.1928, 58.8682



47.3974, 47.1928, 46.1429



42.9855, 47.1928, 44.5643



42.4059, 47.1928, 57.0097



# Rectangle

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



46.7786, 47.1928, 58.8682



48.0594, 47.1928, 51.8195



42.9855, 47.1928, 44.5643



41.7970, 47.1928, 50.9528

# Sweetspot

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



46.7800, 47.1948, 58.8692



92.3968, 96.2490, 108.3158



46.9998, 50.1144, 59.4212



19.8046, 20.6405, 23.1902



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



46.7800, 47.1948, 58.8692



82.3656, 82.1757, 106.1281



48.7749, 48.2232, 58.9626



9.9370, 9.9587, 12.6833



8.9476, 3.8731, 33.8326



0.4656, 0.2081, 1.4655



# Inverse Universe

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



48.2731, 48.0544, 54.8775



85.7036, 84.0980, 97.1807



47.0515, 52.6082, 50.8568



10.3052, 10.1707, 11.6975



16.4891, 8.2854, 10.4877



0.7466, 0.3716, 0.6329



# Previews

## White Background



This preview shows how the XYZ color 46.7786, 47.1928, 58.8682 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 46.7786, 47.1928, 58.8682 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

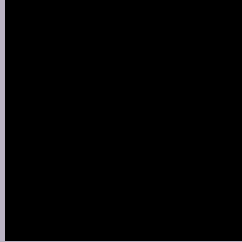
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 46.7786, 47.1928, 58.8682**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.7786, 47.1928, 58.8682.



This preview shows how white text looks on a background with the XYZ color 46.7786, 47.1928,



# 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

46.7786, 47.1928, 58.8682

### Protanopia

46.0974, 47.4322, 59.5491

### Deuteranopia

48.1323, 47.2956, 58.8167



## Tritanopia

46.5524, 47.1024, 57.6770

# Trichromacy



## Original Color

46.7786, 47.1928, 58.8682

## Protanomaly

46.3691, 47.2693, 59.5033

## Deuteranomaly

47.5698, 47.3021, 58.8476

## Tritanomaly

46.6651, 47.1474, 58.2706

# Monochromacy



## Original Color

46.7786, 47.1928, 58.8682

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

46.0182, 47.8121, 54.3802

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.7786, 47.1928, 58.8682 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, 180, 196) looks like.

```
.text, #text, p{  
    color:rgb(187, 180, 196)  
}
```

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, 180, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 180, 196) }
```

## Border

The CSS property to change the border of an element to XYZ 46.7786, 47.1928, 58.8682 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, 180, 196) }
```



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

```
.border{ border-color:rgb(187, 180, 196) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 180, 196)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 180, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 180, 196);  
box-shadow:4px 4px 4px 4px rgb(187, 180,  
196) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.7786, 47.1928, 58.8682 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 180, 196) }
```

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

```
.background{ background-color: rgb(187,  
180, 196) }
```

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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