

# Converting Colors

XYZ(46.7242, 46.6810, 78.4999)

Have a look what the booklet for  
XYZ(46.7242, 46.6810, 78.4999)  
contains.

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# Color

**XYZ(46.8433, 46.7914,  
78.5142)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ABB4E2
RGB	171, 180, 226
RGB Percent	67%, 71%, 89%
CMY	0.3294, 0.2941, 0.1137
CMYK	0.24, 0.20, 0.00, 0.11
HSL	230°, 49%, 78%
HSV	230°, 24%, 89%
XYZ	46.8433, 46.7914, 78.5142
YIQ	182.5530, -20.1300, 12.3980

# Conversions

## Conversions Part 2

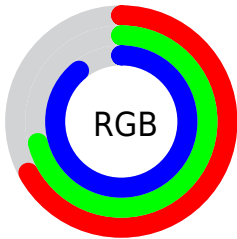
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	171, 179, 226
Decimal	11252962
CIE <sub>Lab</sub>	74.06, 6.77, -24.08
CIE <sub>LCh</sub>	74, 25.012, 285.715
Yxy	46.7914, 0.2721, 0.2718
Android (android.graphics.Color)	4289443042 (0xFFABB4E2)
YUV	182.5530, 21.4194, -10.1320
Hunter-Lab	68.4042, 2.5296, -20.1699

# Details

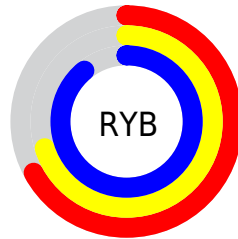
The XYZ color **46.8433, 46.7914, 78.5142** is a light color, and the websafe version is hex **CCCCFF**. A complement of this color would be **63.5282, 68.7351, 48.4484**, and the grayscale version is **44.6608, 46.9866, 51.1684**.

A 20% lighter version of the original color is **79.7240, 83.5418, 106.5310**, and **22.4113, 21.9706, 41.5876** is the 20% darker color. If you saturate the color by 10%, you get **38.7761, 37.3501, 77.1178**, and if you desaturate by 10%, it is **56.2755, 57.7111, 80.1256**.

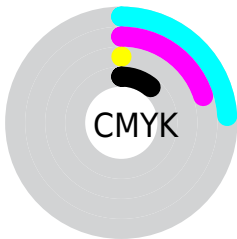
# Distribution



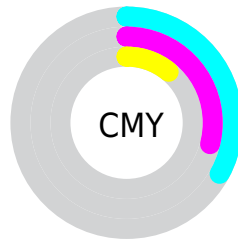
- Red (67%)
- Green (71%)
- Blue (89%)



- Red (67%)
- Yellow (70%)
- Blue (89%)



- Cyan (24%)
- Magenta (20%)
- Yellow (0%)
- Black (11%)



- Cyan (33%)
- Magenta (29%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8433, 46.7914, 78.5142 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 46.8433, 46.7914, 78.5142 by changing the saturation by 10% instead.



■ 46.8433, 46.7914,  
78.5142

■ 46.8433, 46.7914,  
78.5142

364.8481,  
373.9813, 509.4855

■ 33.1192, 32.8708,  
57.9775

■ 84.6998, 85.4022,  
133.0672

■ 22.3775, 22.0275,  
41.3760

109.5630,  
110.8611, 167.9206

■ 14.2527, 13.8771,  
28.2911

138.8699,  
140.9349, 208.3833

■ 8.3795, 8.0352,  
18.3042

172.9859,  
176.0080, 254.8738

■ 4.3926, 4.1175,  
10.9969

212.2764,  
216.4648, 307.8108

■ 1.9265, 1.7395,  
5.9506

257.1067,

■ 0.5922, 0.4490,

262.6897, 367.6127

2.7468

307.8421,  
315.0671, 434.6981

■ 0.0000, 0.0000,  
0.9668

■ 0.0000, 0.0000,  
0.0000

■ 46.8433, 46.7914,  
78.5142

■ 46.8433, 46.7914,  
78.5142

■ 38.7761, 37.3501,  
77.1178

■ 56.2755, 57.7111,  
80.1256

■ 32.0056, 29.3175,  
75.9242

■ 67.1278, 70.1634,  
81.9571

■ 26.4645, 22.6269,  
74.9248

■ 79.4574, 84.2069,  
84.0179

■ 22.0774, 17.2038,  
74.1093

■ 90.7276, 98.2710,  
86.1386

■ 18.7604, 12.9661,  
73.4662

■ 16.4176, 9.8218,  
72.9827

■ 14.9352, 7.6641,  
72.6444

■ 14.3888, 6.8134,  
72.5090

# Harmonies

## Analogous

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



42.3861, 46.7914, 78.7267



46.8433, 46.7914, 78.5142



50.9166, 46.7914, 70.1453

# Triad

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



46.8433, 46.7914, 78.5142



50.7506, 46.7914, 35.2764



36.6519, 46.7914, 45.1111

# Complementary

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



46.8433, 46.7914, 78.5142



63.5282, 68.7351, 48.4484

# 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.



38.5989, 46.7914, 35.6177



46.8433, 46.7914, 78.5142



46.6290, 46.7914, 30.6186

# Square

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



46.8433, 46.7914, 78.5142



53.2735, 46.7914, 44.5657



42.1856, 46.7914, 30.7321



36.7008, 46.7914, 57.9120



# Rectangle

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



46.8433, 46.7914, 78.5142



52.7795, 46.7914, 61.7596



42.1856, 46.7914, 30.7321



37.0887, 46.7914, 41.4779

# Sweetspot

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



46.8448, 46.7933, 78.5153



84.2062, 87.6125, 107.0805



56.4947, 68.0527, 75.6908



17.8331, 18.5344, 22.8875



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.



46.8448, 46.7933, 78.5153



56.2215, 55.2572, 102.3103



49.3606, 45.4797, 78.1291



13.1324, 13.6038, 17.3213



8.2659, 4.0014, 41.3850



0.6289, 0.3893, 2.8872



# Inverse Universe

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



54.1664, 48.5912, 49.7061



67.4167, 58.1852, 58.2189



60.4668, 70.6955, 48.9881



13.7983, 13.7369, 14.7079



18.1124, 9.3120, 1.9919

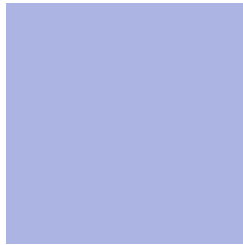


1.2837, 0.6568, 0.2868



# Previews

## White Background



This preview shows how the XYZ color 46.8433, 46.7914, 78.5142 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

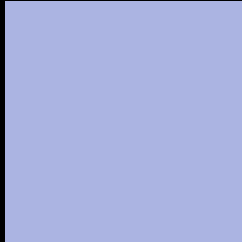
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.8433, 46.7914, 78.5142 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

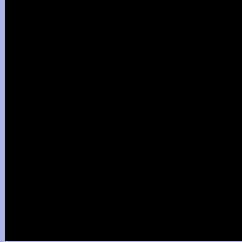
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 46.8433, 46.7914, 78.5142

## Background



This preview shows how black text looks on a background with the XYZ color 46.8433, 46.7914, 78.5142.



This preview shows how white text looks on a background with the XYZ color 46.8433, 46.7914,



# 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

46.8433, 46.7914, 78.5142

### Protanopia

46.8433, 46.7914, 78.5142

### Deuteranopia

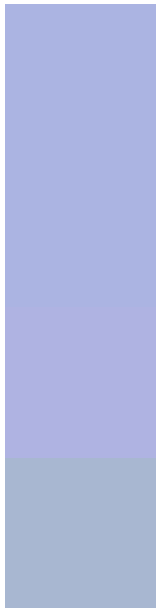
47.7793, 46.6789, 78.4432



## Tritanopia

43.3836, 46.9284, 60.8044

# Trichromacy



## Original Color

46.8433, 46.7914, 78.5142

## Protanomaly

46.8433, 46.7914, 78.5142

## Deuteranomaly

47.5268, 46.8451, 78.4886

## Tritanomaly

44.5906, 46.7953, 67.0038

# Monochromacy



## Original Color

46.8433, 46.7914, 78.5142

## Achromatopsia

45.0092, 47.3531, 51.5676

## Achromatomaly

45.6272, 47.1631, 60.7314

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8433, 46.7914, 78.5142 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(171, 180, 226)` looks like.

```
.text, #text, p{  
    color:rgb(171, 180, 226)  
}
```

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(171, 180, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 180, 226) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8433, 46.7914, 78.5142 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(171, 180, 226) }
```



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

```
.border{ border-color:rgb(171, 180, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 180, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 180, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 180, 226);  
box-shadow:4px 4px 4px 4px rgb(171, 180,  
226) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8433, 46.7914, 78.5142 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 180, 226) }
```

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

```
.background{ background-color: rgb(171,  
180, 226) }
```

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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