

# Converting Colors

XYZ(48.0813, 46.7223, 83.5516)

Have a look what the booklet for  
XYZ(48.0813, 46.7223, 83.5516)  
contains.

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# Color

**XYZ(48.0839, 46.7227,  
83.5749)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AEB2E9
RGB	174, 178, 233
RGB Percent	68%, 70%, 91%
CMY	0.3176, 0.3019, 0.0863
CMYK	0.25, 0.24, 0.00, 0.09
HSL	236°, 57%, 80%
HSV	236°, 25%, 91%
XYZ	48.0839, 46.7227, 83.5749
YIQ	183.0740, -20.0390, 16.2570

# Conversions

## Conversions Part 2

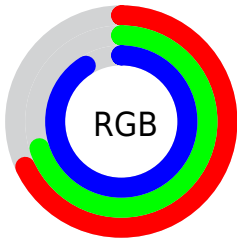
<b>Format</b>	<b>Color</b>
<b>RYB</b>	174, 178, 233
Decimal	11449065
CIELab	74.01, 10.42, -27.93
CIELCh	74, 29.808, 290.464
Yxy	46.7227, 0.2696, 0.2619
Android (android.graphics.Color)	4289639145 (0xFFAEB2E9)
YUV	183.0740, 24.6135, -7.9579
Hunter-Lab	68.3540, 5.9470, -24.6447

# Details

The XYZ color **48.0839, 46.7227, 83.5749** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **69.2641, 76.4183, 51.1453**, and the grayscale version is **44.9287, 47.2685, 51.4754**.

A 20% lighter version of the original color is **80.1059, 82.8886, 106.3848**, and **23.0152, 21.8346, 44.5964** is the 20% darker color. If you saturate the color by 10%, you get **39.3517, 36.3065, 82.0254**, and if you desaturate by 10%, it is **58.4038, 58.9752, 85.3967**.

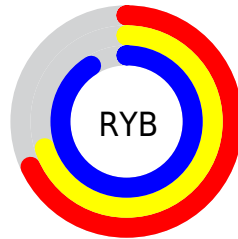
# Distribution



Red (68%)

Green (70%)

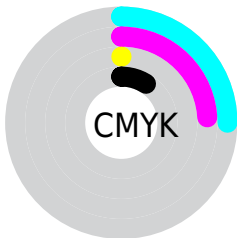
Blue (91%)



Red (68%)

Yellow (70%)

Blue (91%)

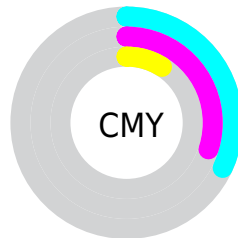


Cyan (25%)

Magenta (24%)

Yellow (0%)

Black (9%)



Cyan (32%)

Magenta (30%)

Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.0839, 46.7227, 83.5749 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 48.0839, 46.7227, 83.5749 by changing the saturation by 10% instead.



■ 48.0839, 46.7227,  
83.5749

■ 48.0839, 46.7227,  
83.5749

369.7016,  
373.7066, 526.9216

■ 34.1049, 32.8165,  
62.1212

■ 86.5382, 85.2996,  
140.2368

■ 23.1374, 21.9859,  
44.6942

111.7443,  
110.7390, 176.2820

■ 14.8163, 13.8465,  
30.8754

141.4233,  
140.7916, 218.0282

■ 8.7760, 8.0140,  
20.2463

175.9408,  
175.8418, 265.8938

■ 4.6513, 4.1039,  
12.3884

215.6620,  
216.2741, 320.2974

■ 2.0768, 1.7319,  
6.8830

260.9523,

■ 0.6766, 0.4442,

262.4727, 381.6576

3.3117

312.1771,  
314.8220, 450.3928

■ 0.0000, 0.0000,  
1.2559

■ 0.0000, 0.0000,  
0.0252

■ 48.0839, 46.7227,  
83.5749

■ 48.0839, 46.7227,  
83.5749

■ 39.3517, 36.3065,  
82.0254

■ 58.4038, 58.9752,  
85.3967

■ 32.1239, 27.6328,  
80.7322

■ 70.3798, 73.1406,  
87.4997

■ 26.3167, 20.6080,  
79.6823

■ 84.0822, 89.2980,  
89.8962

■ 21.8363, 15.1273,  
78.8606

■ 91.7081, 98.6633,  
91.3020

■ 18.5773, 11.0742,  
78.2500

■ 16.4186, 8.3150,  
77.8312

■ 15.2135, 6.6910,  
77.5813

■ 14.8905, 6.2480,  
77.5128

# Harmonies

## Analogous

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



42.7343, 46.7227, 85.6025



48.0839, 46.7227, 83.5749



52.7792, 46.7227, 71.9074

# Triad

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



48.0839, 46.7227, 83.5749



51.2479, 46.7227, 31.4495



35.0601, 46.7227, 46.1695

# Complementary

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



48.0839, 46.7227, 83.5749



69.2641, 76.4183, 51.1453

# 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.



36.9733, 46.7227, 34.4017



48.0839, 46.7227, 83.5749



46.1259, 46.7227, 27.0948

# Square

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



48.0839, 46.7227, 83.5749



54.7048, 46.7227, 41.2976



40.9254, 46.7227, 28.0552



35.4928, 46.7227, 61.8249



# Rectangle

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



48.0839, 46.7227, 83.5749



54.7699, 46.7227, 61.3187



40.9254, 46.7227, 28.0552



35.4440, 46.7227, 41.6867

# Sweetspot

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



48.0854, 46.7246, 83.5760



82.1697, 84.7956, 106.6441



60.6107, 72.8835, 84.3337



17.1019, 17.5754, 22.7410



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.



48.0854, 46.7246, 83.5760



53.6009, 50.8959, 101.6066



53.2879, 48.2418, 83.5946



14.3132, 14.7129, 19.0077



8.4805, 3.6080, 43.9924



0.6948, 0.3410, 3.4641



# Inverse Universe

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



56.7774, 50.8114, 48.9366



65.8792, 56.7478, 52.6576



62.9096, 74.8051, 51.1688



15.1069, 15.0706, 15.8483



19.1359, 9.8570, 1.2509

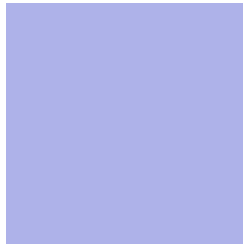


1.5172, 0.7798, 0.1749



# Previews

## White Background



This preview shows how the XYZ color 48.0839, 46.7227, 83.5749 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

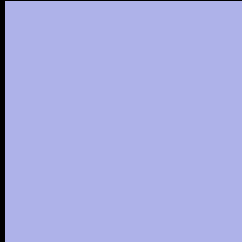
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.0839, 46.7227, 83.5749 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

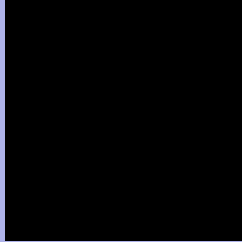
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.0839, 46.7227, 83.5749**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.0839, 46.7227, 83.5749.



This preview shows how white text looks on a background with the XYZ color 48.0839, 46.7227,



# 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

48.0839, 46.7227, 83.5749

### Protanopia

47.3210, 46.9079, 84.4019

### Deuteranopia

47.6416, 46.4946, 83.5542



## Tritanopia

43.3856, 46.6200, 60.7447

# Trichromacy



## Original Color

48.0839, 46.7227, 83.5749

## Protanomaly

47.5489, 46.7268, 84.3550

## Deuteranomaly

47.8620, 46.6082, 83.5645

## Tritanomaly

45.0634, 46.7051, 68.2679

# Monochromacy



## Original Color

48.0839, 46.7227, 83.5749

## Achromatopsia

45.0092, 47.3531, 51.5676

## Achromatomaly

45.8889, 46.9681, 61.9055

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.0839, 46.7227, 83.5749 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(174, 178, 233)` looks like.

```
.text, #text, p{  
    color:rgb(174, 178, 233)  
}
```

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(174, 178, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(174, 178, 233) }
```

## Border

The CSS property to change the border of an element to XYZ 48.0839, 46.7227, 83.5749 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(174, 178, 233) }
```



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

```
.border{ border-color:rgb(174, 178, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(174, 178, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(174, 178, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(174, 178, 233);  
box-shadow:4px 4px 4px 4px rgb(174, 178,  
233) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.0839, 46.7227, 83.5749 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(174, 178, 233) }
```

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

```
.background{ background-color: rgb(174,  
178, 233) }
```

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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