

# Converting Colors

XYZ(47.6529, 43.8883, 87.4619)

Have a look what the booklet for  
XYZ(47.6529, 43.8883, 87.4619)  
contains.

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# **Color**

**XYZ(47.6725, 43.8380,  
87.6103)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B0A9EF
RGB	176, 169, 239
RGB Percent	69%, 66%, 94%
CMY	0.3098, 0.3372, 0.0627
CMYK	0.26, 0.29, 0.00, 0.06
HSL	246°, 69%, 80%
HSV	246°, 29%, 94%
XYZ	47.6725, 43.8380, 87.6103
YIQ	179.0730, -18.2980, 23.2540

# Conversions

## Conversions Part 2

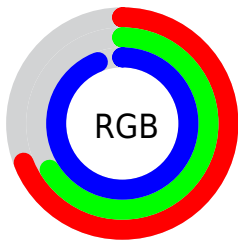
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	176, 169, 239
Decimal	11577839
CIE <sub>Lab</sub>	72.12, 17.44, -34.09
CIE <sub>LCh</sub>	72, 38.290, 297.089
Yxy	43.8380, 0.2661, 0.2447
Android (android.graphics.Color)	4289767919 (0xFFB0A9EF)
YUV	179.0730, 29.5440, -2.6950
Hunter-Lab	66.2103, 12.6550, -32.1061

# Details

The XYZ color **47.6725, 43.8380, 87.6103** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **71.3075, 81.7542, 49.5596**, and the grayscale version is **42.7424, 44.9683, 48.9705**.

A 20% lighter version of the original color is **78.3099, 77.8549, 105.5079**, and **22.9346, 20.2791, 47.5052** is the 20% darker color. If you saturate the color by 10%, you get **39.1419, 33.4330, 86.0523**, and if you desaturate by 10%, it is **57.7894, 56.2690, 89.4773**.

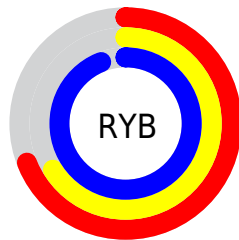
# Distribution



Red (69%)

Green (66%)

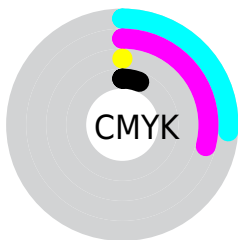
Blue (94%)



Red (69%)

Yellow (66%)

Blue (94%)

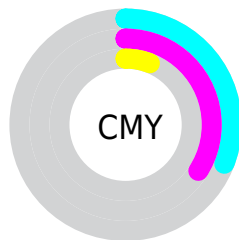


Cyan (26%)

Magenta (29%)

Yellow (0%)

Black (6%)



Cyan (31%)

Magenta (34%)

Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.6725, 43.8380, 87.6103 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 47.6725, 43.8380, 87.6103 by changing the saturation by 10% instead.



■ 47.6725, 43.8380,  
87.6103

■ 47.6725, 43.8380,  
87.6103

368.0968,  
362.0468, 540.5944

■ 33.7778, 30.5432,  
65.4379

■ 85.9292, 80.9739,  
145.9209

■ 22.8850, 20.2512,  
47.3626

■ 111.0220,  
105.5838, 182.8961

■ 14.6289, 12.5778,  
32.9660

140.5781,  
134.7341, 225.6426

■ 8.6439, 7.1385,  
21.8295

174.9629,  
168.8094, 274.5790

■ 4.5649, 3.5488,  
13.5346

214.5419,  
208.1938, 330.1239

■ 2.0264, 1.4245,  
7.6626

259.6802,

■ 0.6487, 0.2347,

253.2720, 392.6957

3.7952

310.7434,  
304.4282, 462.7130

■ 0.0000, 0.0000,  
1.5137

■ 0.0000, 0.0000,  
0.2281

■ 47.6725, 43.8380,  
87.6103

■ 47.6725, 43.8380,  
87.6103

■ 39.1419, 33.4330,  
86.0523

■ 57.7894, 56.2690,  
89.4773

■ 32.1125, 24.9414,  
84.7837

■ 69.5628, 70.8202,  
91.6654

■ 26.4982, 18.2479,  
83.7877

■ 83.0643, 87.5861,  
94.1899

■ 22.2021, 13.2221,  
83.0440

■ 92.5801, 99.0121,  
95.8938

■ 19.1152, 9.7163,  
82.5300

■ 17.1105, 7.5564,  
82.2188

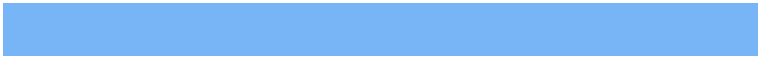
■ 16.0103, 6.4812,  
82.0693

■ 15.9545, 6.4250,  
82.0613

# Harmonies

## Analogous

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



41.0301, 43.8380, 93.6074



47.6725, 43.8380, 87.6103



53.1662, 43.8380, 70.1478

# Triad

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



47.6725, 43.8380, 87.6103



48.8952, 43.8380, 23.3930



30.3063, 43.8380, 45.9230

# Complementary

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



47.6725, 43.8380, 87.6103



71.3075, 81.7542, 49.5596

# 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.



31.9578, 43.8380, 30.6864



47.6725, 43.8380, 87.6103



42.3098, 43.8380, 20.0005

# Square

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



47.6725, 43.8380, 87.6103



53.9225, 43.8380, 33.1119



36.1878, 43.8380, 22.2723



31.4247, 43.8380, 66.1245



# Rectangle

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



47.6725, 43.8380, 87.6103



55.1958, 43.8380, 56.2580



36.1878, 43.8380, 22.2723



30.5514, 43.8380, 40.1143

# Sweetspot

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



47.6740, 43.8397, 87.6113



80.9658, 82.5123, 106.2668



60.8000, 72.3813, 92.4286



16.8758, 17.0984, 22.6608



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.



47.6740, 43.8397, 87.6113



49.2472, 43.4781, 100.4042



56.6332, 48.4584, 88.0306



15.0439, 15.3043, 19.8827



8.8661, 3.5760, 45.3508



0.7865, 0.3227, 3.7751



# Inverse Universe

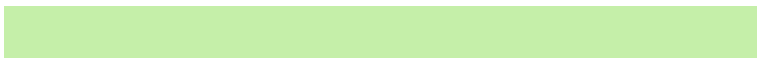
The Inverse Universe completely reimagines the original color for something new.



64.3511, 52.5543, 83.0969



71.4768, 55.1000, 94.1170



61.0551, 76.4689, 49.0798



16.3821, 16.0026, 19.5686



26.4848, 12.8663, 36.7991

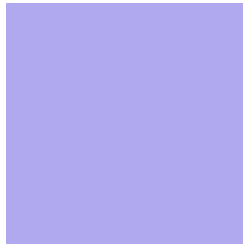


2.2228, 1.0782, 3.1643



# Previews

## White Background



This preview shows how the XYZ color 47.6725, 43.8380, 87.6103 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

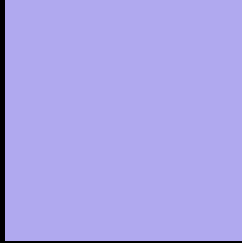
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.6725, 43.8380, 87.6103 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

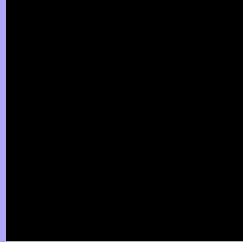
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 47.6725, 43.8380, 87.6103**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.6725, 43.8380, 87.6103.



This preview shows how white text looks on a background with the XYZ color 47.6725, 43.8380,



# 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

47.6725, 43.8380, 87.6103

### Protanopia

45.0240, 43.8111, 90.8774

### Deuteranopia

45.0659, 43.9187, 86.9909



## Tritanopia

41.3712, 43.8621, 56.1549

# Trichromacy



## Original Color

47.6725, 43.8380, 87.6103

## Protanomaly

45.8838, 43.7024, 90.0215

## Deuteranomaly

45.9110, 43.7851, 86.9205

## Tritanomaly

43.4162, 43.8094, 66.4894

# Monochromacy



## Original Color

47.6725, 43.8380, 87.6103

## Achromatopsia

42.8472, 45.0786, 49.0906

## Achromatomaly

44.2327, 44.3420, 61.4859

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.6725, 43.8380, 87.6103 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(176, 169, 239)` looks like.

```
.text, #text, p{  
    color:rgb(176, 169, 239)  
}
```

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(176, 169, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 169, 239) }
```

## Border

The CSS property to change the border of an element to XYZ 47.6725, 43.8380, 87.6103 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(176, 169, 239) }
```



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

```
.border{ border-color:rgb(176, 169, 239) }
```

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

Here you see how a box with a 4 pixel `rgb(176, 169, 239)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 169, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 169, 239);  
box-shadow:4px 4px 4px 4px rgb(176, 169,  
239) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.6725, 43.8380, 87.6103 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 169, 239) }
```

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

```
.background{ background-color: rgb(176,  
169, 239) }
```

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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