

# Converting Colors

XYZ(47.6475, 40.1805, 86.1332)

Have a look what the booklet for  
XYZ(47.6475, 40.1805, 86.1332)  
contains.

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# Color

**XYZ(47.6475, 40.1805,  
86.1332)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BB9BEE
RGB	187, 155, 238
RGB Percent	73%, 61%, 93%
CMY	0.2667, 0.3921, 0.0667
CMYK	0.21, 0.35, 0.00, 0.07
HSL	263°, 71%, 77%
HSV	263°, 35%, 93%
XYZ	47.6475, 40.1805, 86.1332
YIQ	174.0300, -7.5710, 32.5970

# Conversions

## Conversions Part 2

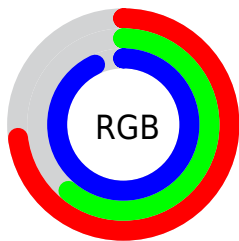
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	187, 155, 238
Decimal	12295150
CIE <sub>Lab</sub>	69.60, 28.24, -37.39
CIE <sub>LCh</sub>	70, 46.853, 307.064
Yxy	40.1805, 0.2739, 0.2310
Android (android.graphics.Color)	4290485230 (0xFFBB9BEE)
YUV	174.0300, 31.5372, 11.3747
Hunter-Lab	63.3881, 23.2456, -36.1930

# Details

The XYZ color **47.6475, 40.1805, 86.1332** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **61.9455, 76.6383, 42.5397**, and the grayscale version is **40.0946, 42.1827, 45.9369**.

A 20% lighter version of the original color is **78.4048, 72.5463, 104.4782**, and **22.8095, 17.9834, 46.5249** is the 20% darker color. If you saturate the color by 10%, you get **40.6729, 31.2740, 84.7823**, and if you desaturate by 10%, it is **55.7698, 50.8392, 87.7631**.

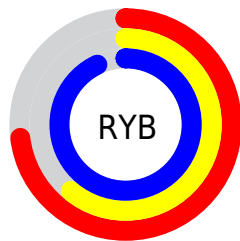
# Distribution



Red (73%)

Green (61%)

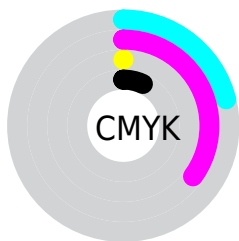
Blue (93%)



Red (73%)

Yellow (61%)

Blue (93%)

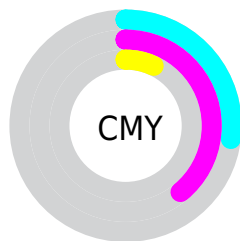


Cyan (21%)

Magenta (35%)

Yellow (0%)

Black (7%)



Cyan (27%)

Magenta (39%)

Yellow (7%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.6475, 40.1805, 86.1332 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 47.6475, 40.1805, 86.1332 by changing the saturation by 10% instead.



47.6475, 40.1805,  
86.1332

47.6475, 40.1805,  
86.1332

367.9991,  
346.8838, 535.6124

33.7579, 27.6793,  
64.2226

85.8922, 75.4383,  
143.8435

22.8697, 18.0841,  
46.3837

110.9780, 98.9637,  
180.4804

14.6175, 11.0104,  
32.1978

140.5267,  
126.9326, 222.8630

8.6359, 6.0738,  
21.2466

174.9034,  
159.7294, 271.4100

4.5597, 2.8900,  
13.1114

214.4737,  
197.7386, 326.5399

2.0234, 1.0746,  
7.3736

259.6028,

0.6470, 0.0000,

241.3444, 388.6712

3.6149

310.6562,  
290.9313, 458.2225

■ 0.0000, 0.0000,  
1.4165

■ 0.0000, 0.0000,  
0.1546

■ 47.6475, 40.1805,  
86.1332

■ 47.6475, 40.1805,  
86.1332

■ 40.6729, 31.2740,  
84.7823

■ 55.7698, 50.8392,  
87.7631

■ 34.7850, 24.0171,  
83.6919

■ 65.0883, 63.3352,  
89.6840

■ 29.9227, 18.3036,  
82.8454

■ 75.6537, 77.7538,  
91.9102

■ 26.0168, 14.0128,  
82.2231

■ 87.5123, 94.1734,  
94.4545

■ 22.9879, 11.0046,  
81.8021

■ 92.4327, 98.9531,  
95.1177

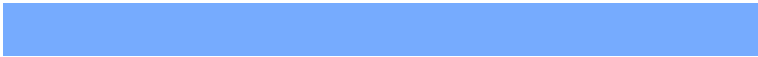
■ 20.7406, 9.1082,  
81.5545

■ 19.8225, 8.4361,  
81.4731

# Harmonies

## Analogous

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



40.0077, 40.1805, 99.4975



47.6475, 40.1805, 86.1332



53.2173, 40.1805, 62.0795

# Triad

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



47.6475, 40.1805, 86.1332



44.1454, 40.1805, 15.5022



25.4948, 40.1805, 49.0766

# Complementary

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



47.6475, 40.1805, 86.1332



61.9455, 76.6383, 42.5397

# 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.



26.2974, 40.1805, 29.4379



47.6475, 40.1805, 86.1332



36.4289, 40.1805, 14.0583

# Square

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



47.6475, 40.1805, 86.1332



51.0162, 40.1805, 23.1351



30.0755, 40.1805, 18.2122



27.7174, 40.1805, 73.9749



# Rectangle

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



47.6475, 40.1805, 86.1332



54.6410, 40.1805, 45.9188



30.0755, 40.1805, 18.2122



25.4251, 40.1805, 41.6501

# Sweetspot

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



47.6489, 40.1821, 86.1341



81.9165, 81.9442, 106.1071



51.0669, 57.3738, 89.2723



17.1644, 17.0364, 22.6336



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.



47.6489, 40.1821, 86.1341



49.6582, 39.2118, 99.5591



59.2505, 46.1630, 86.6771



15.4735, 15.5258, 19.9028



11.1927, 4.7755, 45.4597



1.0390, 0.4529, 3.7869



# Inverse Universe

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



58.1229, 46.0774, 64.2239



63.9145, 47.2486, 69.1741



51.9434, 71.4820, 42.0716



16.1810, 15.9221, 18.5093



22.6416, 11.3291, 16.5612

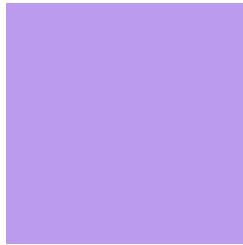


1.9321, 0.9619, 1.6331



# Previews

## White Background



This preview shows how the XYZ color 47.6475, 40.1805, 86.1332 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

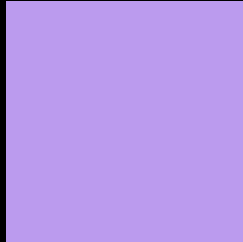
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.6475, 40.1805, 86.1332 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

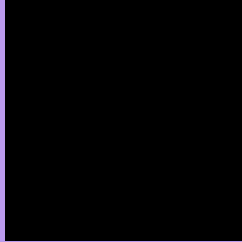
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 47.6475, 40.1805, 86.1332**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.6475, 40.1805, 86.1332.



This preview shows how white text looks on a background with the XYZ color 47.6475, 40.1805,



# 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

47.6475, 40.1805, 86.1332

### Protanopia

42.2636, 40.3440, 94.3666

### Deuteranopia

41.3925, 40.3930, 84.2123



## Tritanopia

40.1884, 40.2798, 48.8366

# Trichromacy



## Original Color

47.6475, 40.1805, 86.1332

## Protanomaly

43.9235, 40.1996, 91.0322

## Deuteranomaly

43.3418, 40.0370, 84.8004

## Tritanomaly

42.6959, 40.2352, 60.7742

# Monochromacy



## Original Color

47.6475, 40.1805, 86.1332

## Achromatopsia

40.2316, 42.3268, 46.0938

## Achromatomaly

42.4872, 41.2524, 58.5465

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.6475, 40.1805, 86.1332 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, 155, 238)` looks like.

```
.text, #text, p{  
    color:rgb(187, 155, 238)  
}
```

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, 155, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 155, 238) }
```

## Border

The CSS property to change the border of an element to XYZ 47.6475, 40.1805, 86.1332 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, 155, 238) }
```



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

```
.border{ border-color:rgb(187, 155, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 155, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 155, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 155, 238);  
box-shadow:4px 4px 4px 4px rgb(187, 155,  
238) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.6475, 40.1805, 86.1332 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 155, 238) }
```

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

```
.background{ background-color: rgb(187,  
155, 238) }
```

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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