

# Converting Colors

XYZ(47.7943, 41.0948, 85.0547)

Have a look what the booklet for  
XYZ(47.7943, 41.0948, 85.0547)  
contains.

<b>XYZ(47.6169, 40.9490, 84.7511)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(47.6169, 40.9490,  
84.7511)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	BA9EEC
RGB	186, 158, 236
RGB Percent	73%, 62%, 93%
CMY	0.2706, 0.3804, 0.0745
CMYK	0.21, 0.33, 0.00, 0.07
HSL	262°, 67%, 77%
HSV	262°, 33%, 93%
XYZ	47.6169, 40.9490, 84.7511
YIQ	175.2640, -8.3500, 30.1940

# Conversions

## Conversions Part 2

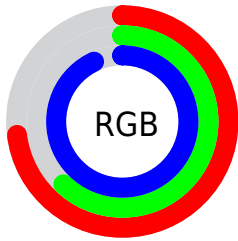
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	186, 158, 236
Decimal	12230380
CIE <sub>Lab</sub>	70.14, 25.82, -35.46
CIE <sub>LCh</sub>	70, 43.860, 306.058
Yxy	40.9490, 0.2747, 0.2363
Android (android.graphics.Color)	4290420460 (0xFFBA9EEC)
YUV	175.2640, 29.9428, 9.4155
Hunter-Lab	63.9914, 20.8394, -33.7305

# Details

The XYZ color **47.6169, 40.9490, 84.7511** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **62.1806, 75.8703, 43.7167**, and the grayscale version is **40.7383, 42.8599, 46.6744**.

A 20% lighter version of the original color is **78.8064, 73.8632, 104.7112**, and **22.9080, 18.5089, 45.5452** is the 20% darker color. If you saturate the color by 10%, you get **40.4887, 31.8620, 83.3735**, and if you desaturate by 10%, it is **55.9100, 51.7857, 86.4064**.

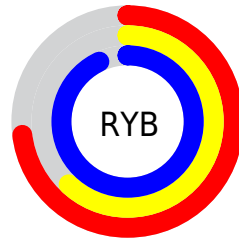
# Distribution



Red (73%)

Green (62%)

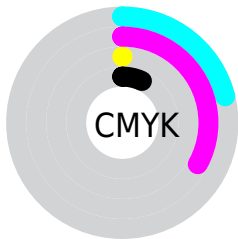
Blue (93%)



Red (73%)

Yellow (62%)

Blue (93%)

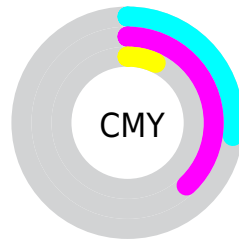


Cyan (21%)

Magenta (33%)

Yellow (0%)

Black (7%)



Cyan (27%)

Magenta (38%)


Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.6169, 40.9490, 84.7511 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 47.6169, 40.9490, 84.7511 by changing the saturation by 10% instead.





 47.6169, 40.9490,  
84.7511


 47.6169, 40.9490,  
84.7511


367.8795,  
350.1074, 530.9272

 33.7336, 28.2792,  
63.0868


 85.8469, 76.6065,  
141.8964

 22.8509, 18.5363,  
45.4700


 110.9243,  
100.3630, 178.2145

 14.6036, 11.3357,  
31.4821


140.4637,  
128.5838, 220.2543

 8.6261, 6.2931,  
20.7047

174.8306,  
161.6534, 268.4343

 4.5533, 3.0241,  
12.7192

214.3903,  
199.9562, 323.1731

 2.0197, 1.1443,  
7.1070

259.5081,

 0.6450, 0.0155,

243.8765, 384.8891

3.4497

310.5494,  
293.7988, 454.0010

■ 0.0000, 0.0000,  
1.3286

■ 0.0000, 0.0000,  
0.0850

■ 47.6169, 40.9490,  
84.7511

■ 47.6169, 40.9490,  
84.7511

■ 40.4887, 31.8620,  
83.3735

■ 55.9100, 51.7857,  
86.4064

■ 34.4647, 24.4249,  
82.2555

■ 65.4162, 64.4550,  
88.3508

■ 29.4848, 18.5348,  
81.3811

■ 76.1858, 79.0399,  
90.5983

■ 25.4806, 14.0753,  
80.7313

■ 88.2652, 95.6174,  
93.1614

■ 22.3748, 10.9122,  
80.2845

■ 92.1404, 98.8362,  
93.5785

■ 20.0753, 8.8842,  
80.0143

■ 18.8612, 7.9743,  
79.9026

# Harmonies

## Analogous

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



40.3947, 40.9490, 96.5324



47.6169, 40.9490, 84.7511



52.9368, 40.9490, 62.6145

# Triad

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



47.6169, 40.9490, 84.7511



44.7907, 40.9490, 17.3514



26.7531, 40.9490, 48.8867

# Complementary

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



47.6169, 40.9490, 84.7511



62.1806, 75.8703, 43.7167

# 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.



27.6267, 40.9490, 30.4007



47.6169, 40.9490, 84.7511



37.4832, 40.9490, 15.7119

# Square

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



47.6169, 40.9490, 84.7511



51.1699, 40.9490, 25.1430



31.3537, 40.9490, 19.6698



28.8013, 40.9490, 72.1132



# Rectangle

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



47.6169, 40.9490, 84.7511



54.3663, 40.9490, 47.3575



31.3537, 40.9490, 19.6698



26.7185, 40.9490, 41.9257

# Sweetspot

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



47.6183, 40.9506, 84.7520



81.6877, 81.8262, 106.0964



51.9691, 58.7805, 87.9642



17.1092, 17.0079, 22.6311



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.



47.6183, 40.9506, 84.7520



50.5804, 40.9001, 99.8364



58.2019, 46.4067, 85.2473



14.7415, 14.8120, 19.0043



10.5251, 4.4618, 44.0494



0.9283, 0.4028, 3.4637



# Inverse Universe

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



58.2053, 46.8422, 65.6496



65.3366, 49.1246, 72.6324



52.6811, 70.9732, 43.2721



15.4720, 15.2166, 17.7708



22.2235, 11.0921, 17.5104

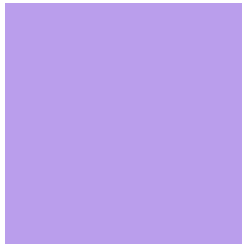


1.7908, 0.8893, 1.6155



# Previews

## White Background



This preview shows how the XYZ color 47.6169, 40.9490, 84.7511 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

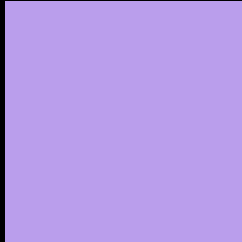
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.6169, 40.9490, 84.7511 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

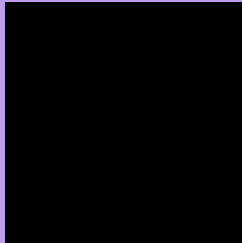
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 47.6169, 40.9490, 84.7511**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.6169, 40.9490, 84.7511.



This preview shows how white text looks on a background with the XYZ color 47.6169, 40.9490,



# 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

47.6169, 40.9490, 84.7511

### Protanopia

42.8821, 41.2644, 92.0909

### Deuteranopia

42.1761, 41.0888, 83.5499



## Tritanopia

40.5360, 40.9834, 50.0301

# Trichromacy



## Original Color

47.6169, 40.9490, 84.7511

## Protanomaly

44.3824, 41.0025, 89.5795

## Deuteranomaly

43.9676, 40.9078, 84.1759

## Tritanomaly

42.9382, 40.8778, 61.5042

# Monochromacy



## Original Color

47.6169, 40.9490, 84.7511

## Achromatopsia

40.7470, 42.8690, 46.6844

## Achromatomaly

42.8564, 41.9909, 58.6696

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.6169, 40.9490, 84.7511 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(186, 158, 236)` looks like.

```
.text, #text, p{  
    color:rgb(186, 158, 236)  
}
```

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(186, 158, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(186, 158, 236) }
```

## Border

The CSS property to change the border of an element to XYZ 47.6169, 40.9490, 84.7511 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(186, 158, 236) }
```



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

```
.border{ border-color:rgb(186, 158, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(186, 158, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(186, 158, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(186, 158, 236);  
box-shadow:4px 4px 4px 4px rgb(186, 158,  
236) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.6169, 40.9490, 84.7511 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(186, 158, 236) }
```

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

```
.background{ background-color: rgb(186,  
158, 236) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor