

# Converting Colors

XYZ(50.8630, 41.3944, 85.3638)

Have a look what the booklet for  
XYZ(50.8630, 41.3944, 85.3638)  
contains.

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# Color

**XYZ(50.7647, 41.3144,  
85.4196)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C999ED
RGB	201, 153, 237
RGB Percent	79%, 60%, 93%
CMY	0.2118, 0.4000, 0.0706
CMYK	0.15, 0.35, 0.00, 0.07
HSL	274°, 70%, 76%
HSV	274°, 35%, 93%
XYZ	50.7647, 41.3144, 85.4196
YIQ	176.9280, 1.6440, 36.3000

# Conversions

## Conversions Part 2

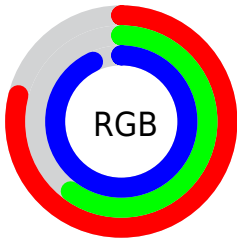
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">201, 153, 237</a>
Decimal	<a href="#">13212141</a>
CIELab	<a href="#">70.40, 33.28, -35.50</a>
CIELCh	<a href="#">70, 48.659, 313.152</a>
Yxy	<a href="#">41.3144, 0.2860, 0.2328</a>
Android (android.graphics.Color)	<a href="#">4291402221 (0xFFC999ED)</a>
YUV	<a href="#">176.9280, 29.6155, 21.1111</a>
Hunter-Lab	<a href="#">64.2763, 28.4939, -33.7997</a>

# Details

The XYZ color **50.7647, 41.3144, 85.4196** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **57.0214, 73.6880, 41.3566**, and the grayscale version is **41.6023, 43.7689, 47.6643**.

A 20% lighter version of the original color is **81.8459, 73.5918, 104.4986**, and **24.8482, 18.7545, 46.0264** is the 20% darker color. If you saturate the color by 10%, you get **44.6235, 32.9515, 84.1297**, and if you desaturate by 10%, it is **57.8596, 51.3145, 86.9765**.

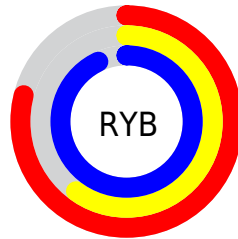
# Distribution



Red (79%)

Green (60%)

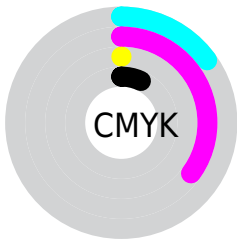
Blue (93%)



Red (79%)

Yellow (60%)

Blue (93%)

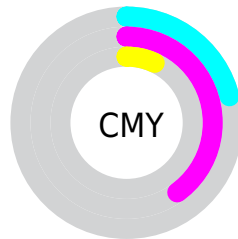


Cyan (15%)

Magenta (35%)

Yellow (0%)

Black (7%)



Cyan (21%)

Magenta (40%)

Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.7647, 41.3144, 85.4196 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 50.7647, 41.3144, 85.4196 by changing the saturation by 10% instead.




 50.7647, 41.3144,  
85.4196


 50.7647, 41.3144,  
85.4196

380.0516,  
351.6329, 533.1962

 36.2417, 28.5648,  
63.6360


 90.4919, 77.1609,  
142.8386

 24.7919, 18.7519,  
45.9116

 116.4268,  
101.0267, 179.3112

 16.0500, 11.4911,  
31.8279

146.8964,  
129.3666, 221.5171

 9.6506, 6.3982,  
20.9664

182.2660,  
162.5652, 269.8749

 5.2284, 3.0887,  
12.9084

222.9009,  
201.0066, 324.8032

 2.4180, 1.1782,  
7.2355

269.1666,

 0.8541, 0.0438,

245.0755, 386.7205

3.5292

321.4284,  
295.1561, 456.0453

■ 0.0000, 0.0000,  
1.3708

■ 0.0000, 0.0000,  
0.1188

■ 50.7647, 41.3144,  
85.4196

■ 50.7647, 41.3144,  
85.4196

■ 44.6235, 32.9515,  
84.1297

■ 57.8596, 51.3145,  
86.9765

■ 39.3825, 26.1272,  
83.0887

■ 65.9495, 63.0324,  
88.8119

■ 34.9888, 20.7399,  
82.2805

■ 75.0780, 76.5497,  
90.9399

■ 31.3816, 16.6733,  
81.6857

■ 85.2849, 91.9411,  
93.3728

■ 28.4903, 13.7921,  
81.2819

■ 91.1143, 98.2904,  
94.2911

■ 26.2289, 11.9300,  
81.0417

■ 92.2862, 98.8945,  
94.3459

■ 25.3471, 11.3011,  
80.9668

# Harmonies

## Analogous

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



42.8756, 41.3144, 103.0158



50.7647, 41.3144, 85.4196



55.9195, 41.3144, 59.0098

# Triad

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



50.7647, 41.3144, 85.4196



43.9007, 41.3144, 14.6086



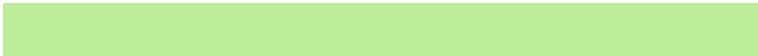
26.1051, 41.3144, 55.7788

# Complementary

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



50.7647, 41.3144, 85.4196



57.0214, 73.6880, 41.3566

# 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.



26.3014, 41.3144, 33.3785



50.7647, 41.3144, 85.4196



35.8689, 41.3144, 14.2636

# Square

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



50.7647, 41.3144, 85.4196



51.6026, 41.3144, 21.0682



29.6532, 41.3144, 19.8785



29.0747, 41.3144, 82.3728



# Rectangle

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



50.7647, 41.3144, 85.4196



56.7303, 41.3144, 42.6040



29.6532, 41.3144, 19.8785



25.8164, 41.3144, 47.4518

# Sweetspot

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



50.7661, 41.3161, 85.4205



82.4602, 81.1817, 105.9313



46.7082, 49.4558, 87.2055



17.3405, 16.9194, 22.6018



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.



50.7661, 41.3161, 85.4205



54.2435, 40.9889, 99.6604



60.7977, 46.5807, 81.6852



15.0553, 14.9738, 19.0190



13.9918, 6.2489, 44.2117



1.2084, 0.5473, 3.4768



# Inverse Universe

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



55.5028, 44.4627, 53.8024



60.9714, 45.4389, 55.6255



49.6457, 69.8310, 43.4831



15.3334, 15.1612, 17.0411



20.4284, 10.3740, 8.0571

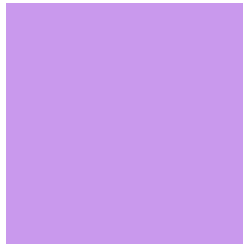


1.6514, 0.8335, 0.8818



# Previews

## White Background



This preview shows how the XYZ color 50.7647, 41.3144, 85.4196 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

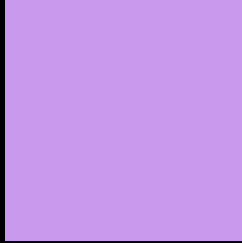
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.7647, 41.3144, 85.4196 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

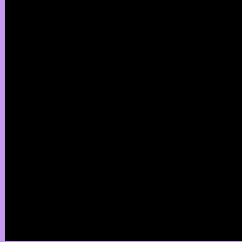
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 50.7647, 41.3144, 85.4196**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.7647, 41.3144, 85.4196.



This preview shows how white text looks on a background with the XYZ color 50.7647, 41.3144,



# 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

50.7647, 41.3144, 85.4196

### Protanopia

43.4841, 41.7626, 96.2116

### Deuteranopia

42.5524, 41.5600, 83.6210



## Tritanopia

43.2292, 41.3311, 47.8188

# Trichromacy



**Original Color**

50.7647, 41.3144, 85.4196

**Protanomaly**

45.4828, 41.2505, 91.9511

**Deuteranomaly**

45.0654, 41.2070, 84.1758

**Tritanomaly**

45.5593, 41.2154, 59.5870

# Monochromacy



**Original Color**

50.7647, 41.3144, 85.4196

**Achromatopsia**

41.7894, 43.9657, 47.8787

**Achromatomaly**

44.5611, 42.5679, 59.9006

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.7647, 41.3144, 85.4196 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(201, 153, 237)` looks like.

```
.text, #text, p{  
    color:rgb(201, 153, 237)  
}
```

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(201, 153, 237) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(201, 153, 237) }
```

## Border

The CSS property to change the border of an element to XYZ 50.7647, 41.3144, 85.4196 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(201, 153, 237) }
```



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

```
.border{ border-color:rgb(201, 153, 237) }
```

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

Here you see how a box with a 4 pixel `rgb(201, 153, 237)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(201, 153, 237); -webkit-box-shadow:4px 4px 4px 4px rgb(201, 153, 237); box-shadow:4px 4px 4px 4px rgb(201, 153, 237) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.7647, 41.3144, 85.4196 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(201, 153, 237) }
```

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

```
.background{ background-color: rgb(201,  
153, 237) }
```

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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