

# Converting Colors

XYZ(41.7846, 38.7043, 63.4240)

Have a look what the booklet for  
XYZ(41.7846, 38.7043, 63.4240)  
contains.

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# Color

**XYZ(41.8988, 38.7175,  
63.6574)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B29FCE
RGB	178, 159, 206
RGB Percent	70%, 62%, 81%
CMY	0.3020, 0.3765, 0.1922
CMYK	0.14, 0.23, 0.00, 0.19
HSL	264°, 32%, 72%
HSV	264°, 23%, 81%
XYZ	41.8988, 38.7175, 63.6574
YIQ	170.0390, -3.7630, 18.6450

# Conversions

## Conversions Part 2

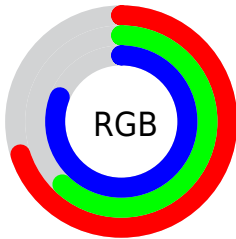
<b>Format</b>	<b>Color</b>
<b>RYB</b>	178, 159, 206
Decimal	11706318
CIELab	68.55, 16.11, -21.47
CIELCh	69, 26.838, 306.887
Yxy	38.7175, 0.2904, 0.2684
Android (android.graphics.Color)	4289896398 (0xFFB29FCE)
YUV	170.0390, 17.7288, 6.9818
Hunter-Lab	62.2234, 11.3040, -17.1000

# Details

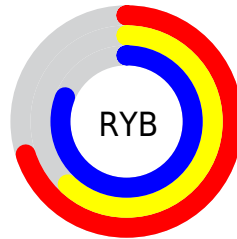
The XYZ color **41.8988, 38.7175, 63.6574** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **48.8241, 57.2116, 41.2723**, and the grayscale version is **38.1447, 40.1312, 43.7029**.

A 20% lighter version of the original color is **76.0283, 72.8056, 104.6535**, and **19.4875, 17.3521, 32.0279** is the 20% darker color. If you saturate the color by 10%, you get **35.9564, 30.8271, 62.4482**, and if you desaturate by 10%, it is **48.6860, 47.9217, 65.0769**.

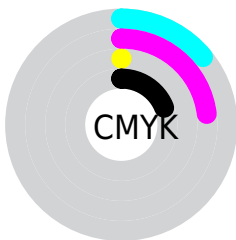
# Distribution



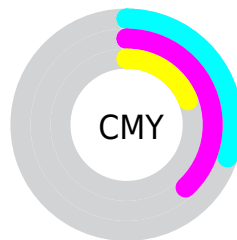
- Red (70%)
- Green (62%)
- Blue (81%)



- Red (70%)
- Yellow (62%)
- Blue (81%)



- Cyan (14%)
- Magenta (23%)
- Yellow (0%)
- Black (19%)



- Cyan (30%)
- Magenta (38%)
- Yellow (19%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.8988, 38.7175, 63.6574 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 41.8988, 38.7175, 63.6574 by changing the saturation by 10% instead.



■ 41.8988, 38.7175,  
63.6574

■ 41.8988, 38.7175,  
63.6574

345.0620,  
340.6879, 456.1249

■ 29.2128, 26.5400,  
45.9288

■ 77.3126, 73.2066,  
111.7121

■ 19.3870, 17.2281,  
31.8414

■ 100.7711, 96.2869,  
142.8753

■ 12.0559, 10.3972,  
20.9766

128.5511,  
123.7704, 179.3538

■ 6.8542, 5.6631,  
12.9158

161.0181,  
156.0414, 221.5662

■ 3.4166, 2.6413,  
7.2405

198.5373,  
193.4842, 269.9309

■ 1.3777, 0.9475,  
3.5323

241.4741,

■ 0.2403, 0.0000,

236.4833, 324.8666

1.3724

290.1939,  
285.4231, 386.7917

■ 0.0000, 0.0000,  
0.1201

■ 0.0000, 0.0000,  
0.0000

■ 41.8988, 38.7175,  
63.6574

■ 41.8988, 38.7175,  
63.6574

■ 35.9564, 30.8271,  
62.4482

■ 48.6860, 47.9217,  
65.0769

■ 30.8192, 24.1838,  
61.4367

■ 56.3478, 58.4925,  
66.7134

■ 26.4500, 18.7222,  
60.6128

■ 64.9170, 70.4857,  
68.5767

■ 22.8066, 14.3689,  
59.9645

■ 74.4237, 83.9525,  
70.6750

■ 19.8426, 11.0418,  
59.4786

■ 82.6209, 94.3907,  
72.2577

■ 17.5050, 8.6472,  
59.1395

■ 86.9148, 96.6043,  
72.4587

■ 15.7316, 7.0725,  
58.9291

■ 88.1407, 97.2363,  
72.5161

■ 14.7321, 6.3077,  
58.8341

# Harmonies

## Analogous

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



37.7833, 38.7175, 69.7561



41.8988, 38.7175, 63.6574



44.7954, 38.7175, 51.9737

# Triad

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



41.8988, 38.7175, 63.6574



40.0845, 38.7175, 24.1629



29.3039, 38.7175, 45.0108

# Complementary

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



41.8988, 38.7175, 63.6574



48.8241, 57.2116, 41.2723

# 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.



29.8172, 38.7175, 33.6611



41.8988, 38.7175, 63.6574



35.8335, 38.7175, 23.0081

# Square

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



41.8988, 38.7175, 63.6574



43.6932, 38.7175, 29.6682



32.1323, 38.7175, 26.1410



30.6725, 38.7175, 57.7344



# Rectangle

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



41.8988, 38.7175, 63.6574



45.5297, 38.7175, 43.4341



32.1323, 38.7175, 26.1410



29.2639, 38.7175, 40.9048

# Sweetspot

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



41.9000, 38.7191, 63.6583



85.8129, 87.1738, 106.9112



43.2528, 47.4541, 65.2730



18.2043, 18.4336, 22.8485



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.



41.9000, 38.7191, 63.6583



63.3667, 56.6944, 102.2111



47.7080, 41.7132, 63.9301



11.0239, 11.0616, 14.1245



9.1749, 3.9374, 36.2327



0.5585, 0.2470, 1.8732



# Inverse Universe

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



46.8226, 41.5076, 52.5594



72.7189, 61.9964, 80.9287



43.5786, 54.5074, 41.0268



11.4881, 11.3240, 13.1051



17.9136, 8.9760, 12.5297

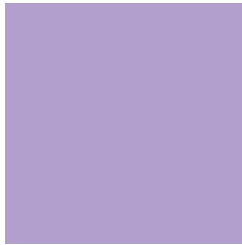


0.9611, 0.4779, 0.8411



# Previews

## White Background



This preview shows how the XYZ color 41.8988, 38.7175, 63.6574 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

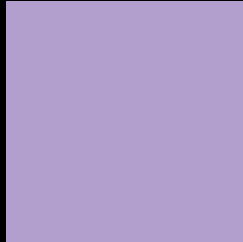
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.8988, 38.7175, 63.6574 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

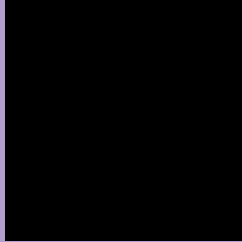
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 41.8988, 38.7175, 63.6574**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.8988, 38.7175, 63.6574.



This preview shows how white text looks on a background with the XYZ color 41.8988, 38.7175,



# 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

41.8988, 38.7175, 63.6574

### Protanopia

38.9233, 38.6813, 67.0428

### Deuteranopia

39.6047, 38.8512, 63.1692



## Tritanopia

38.4449, 38.6095, 47.0211

# Trichromacy



## Original Color

41.8988, 38.7175, 63.6574

## Protanomaly

39.9157, 38.6903, 65.6858

## Deuteranomaly

40.3020, 38.6835, 63.1001

## Tritanomaly

39.6766, 38.5855, 52.9335

# Monochromacy



## Original Color

41.8988, 38.7175, 63.6574

## Achromatopsia

38.2080, 40.1978, 43.7754

## Achromatomaly

39.4170, 39.5756, 50.3611

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.8988, 38.7175, 63.6574 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(178, 159, 206)` looks like.

```
.text, #text, p{  
    color:rgb(178, 159, 206)  
}
```

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(178, 159, 206) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 159, 206) }
```

## Border

The CSS property to change the border of an element to XYZ 41.8988, 38.7175, 63.6574 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".

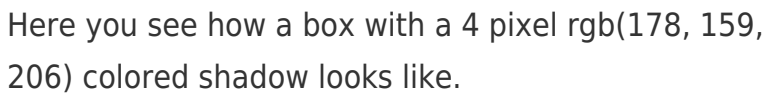
```
.border, #border, table{ border:4px solid rgb(178, 159, 206) }
```



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

```
.border{ border-color:rgb(178, 159, 206) }
```

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



Here you see how a box with a 4 pixel rgb(178, 159, 206) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 159, 206); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 159, 206);  
box-shadow:4px 4px 4px 4px rgb(178, 159,  
206) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.8988, 38.7175, 63.6574 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 159, 206) }
```

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

```
.background{ background-color: rgb(178,  
159, 206) }
```

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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