

# Converting Colors

XYZ(50.9639, 41.6139, 83.1799)

Have a look what the booklet for  
XYZ(50.9639, 41.6139, 83.1799)  
contains.

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# Color

**XYZ(51.0355, 41.7482,  
83.2103)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CB9AEA
RGB	203, 154, 234
RGB Percent	80%, 60%, 92%
CMY	0.2039, 0.3961, 0.0823
CMYK	0.13, 0.34, 0.00, 0.08
HSL	277°, 66%, 76%
HSV	277°, 34%, 92%
XYZ	51.0355, 41.7482, 83.2103
YIQ	177.7710, 3.5240, 35.2680

# Conversions

## Conversions Part 2

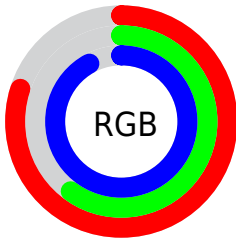
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	203, 154, 234
Decimal	13343466
CIE <sub>Lab</sub>	70.70, 32.70, -33.38
CIE <sub>LCh</sub>	71, 46.726, 314.415
Yxy	41.7482, 0.2900, 0.2372
Android (android.graphics.Color)	4291533546 (0xFFFCB9AEA)
YUV	177.7710, 27.7209, 22.1258
Hunter-Lab	64.6128, 27.9186, -31.1264

# Details

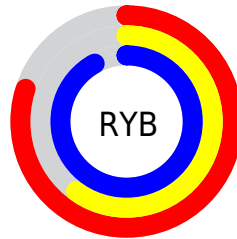
The XYZ color **51.0355, 41.7482, 83.2103** is a light color, and the websafe version is hex **CC99FF**. A complement of this color would be **55.2644, 71.4940, 41.4606**, and the grayscale version is **42.0541, 44.2442, 48.1819**.

A 20% lighter version of the original color is **82.0905, 74.0809, 104.5802**, and **25.0000, 19.0130, 44.4717** is the 20% darker color. If you saturate the color by 10%, you get **45.1460, 33.5277, 81.9347**, and if you desaturate by 10%, it is **57.8250, 51.5522, 84.7455**.

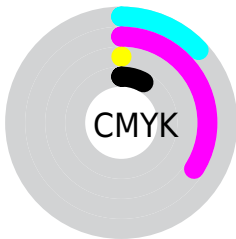
# Distribution



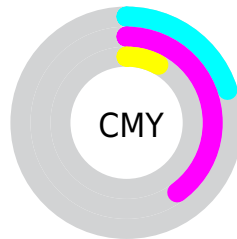
- Red (80%)
- Green (60%)
- Blue (92%)



- Red (80%)
- Yellow (60%)
- Blue (92%)



- Cyan (13%)
- Magenta (34%)
- Yellow (0%)
- Black (8%)




- Cyan (20%)
- Magenta (40%)
- Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.0355, 41.7482, 83.2103 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 51.0355, 41.7482, 83.2103 by changing the saturation by 10% instead.




 51.0355, 41.7482,  
83.2103

 51.0355, 41.7482,  
83.2103


381.0871,  
353.4381, 525.6765

 36.4580, 28.9042,  
61.8220

 90.8899, 77.8184,  
139.7218

 24.9599, 19.0083,  
44.4541


 116.8976,  
101.8134, 175.6822

 16.1757, 11.6763,  
30.6878


147.4460,  
130.2941, 217.3370

 9.7402, 6.5237,  
20.1048

182.9005,  
163.6450, 265.1047

 5.2880, 3.1660,  
12.2864

223.6266,  
202.2504, 319.4040

 2.4537, 1.2190,  
6.8141

269.9894,

 0.8720, 0.0772,

246.4948, 380.6534

3.2695

322.3545,  
296.7626, 449.2714

■ 0.0000, 0.0000,  
1.2338

■ 0.0000, 0.0000,  
0.0066

■ 51.0355, 41.7482,  
83.2103

■ 51.0355, 41.7482,  
83.2103

■ 45.1460, 33.5277,  
81.9347

■ 57.8250, 51.5522,  
84.7455

■ 40.1060, 26.7963,  
80.9010

■ 65.5531, 63.0164,  
86.5510

■ 35.8658, 21.4576,  
80.0940

■ 74.2609, 76.2187,  
88.6403

■ 32.3683, 17.4011,  
79.4954

■ 83.9860, 91.2306,  
91.0253

■ 29.5478, 14.4991,  
79.0839

■ 89.4434, 97.4792,  
91.9438

■ 27.3242, 12.5958,  
78.8337

■ 91.8514, 98.7206,  
92.0565

■ 26.2356, 11.8093,  
78.7393

# Harmonies

## Analogous

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



43.5023, 41.7482, 100.5038



51.0355, 41.7482, 83.2103



55.8138, 41.7482, 57.8983

# Triad

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



51.0355, 41.7482, 83.2103



43.8153, 41.7482, 15.5183



26.9398, 41.7482, 56.9159

# Complementary

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



51.0355, 41.7482, 83.2103



55.2644, 71.4940, 41.4606

# 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.



27.0006, 41.7482, 34.9388



51.0355, 41.7482, 83.2103



36.0892, 41.7482, 15.4085

# Square

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



51.0355, 41.7482, 83.2103



51.2901, 41.7482, 21.6740



30.1484, 41.7482, 21.3004



29.9698, 41.7482, 82.2925



# Rectangle

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



51.0355, 41.7482, 83.2103



56.4478, 41.7482, 42.2535



30.1484, 41.7482, 21.3004



26.6132, 41.7482, 48.8178

# Sweetspot

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



51.0369, 41.7499, 83.2112



83.9055, 82.9696, 106.2002



45.7381, 47.9300, 84.6834



17.6452, 17.2842, 22.6561



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.



51.0369, 41.7499, 83.2112



56.9022, 43.5461, 100.0139



59.2159, 46.0962, 77.7288



15.1169, 15.0055, 19.0219



14.8877, 6.7108, 44.2536



1.2761, 0.5822, 3.4800



# Inverse Universe

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



54.2455, 44.1080, 51.5551



61.6182, 46.9766, 55.0886



49.2722, 68.3254, 44.7754



15.3071, 15.1507, 16.9024



20.1782, 10.2740, 6.7399

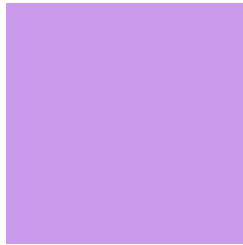


1.6303, 0.8251, 0.7707



# Previews

## White Background



This preview shows how the XYZ color 51.0355, 41.7482, 83.2103 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

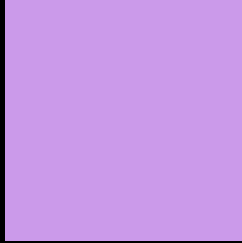
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 51.0355, 41.7482, 83.2103 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

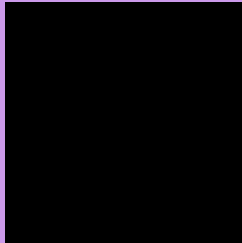
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 51.0355, 41.7482, 83.2103**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.0355, 41.7482, 83.2103.



This preview shows how white text looks on a background with the XYZ color 51.0355, 41.7482,



# 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

51.0355, 41.7482, 83.2103

### Protanopia

43.7458, 42.2308, 93.8414

### Deuteranopia

43.0873, 42.1644, 81.4689



## Tritanopia

43.7391, 41.5940, 47.8426

# Trichromacy



## Original Color

51.0355, 41.7482, 83.2103

## Protanomaly

45.8443, 41.7561, 89.6479

## Deuteranomaly

45.4762, 41.7351, 82.0028

## Tritanomaly

45.9639, 41.4373, 59.0017

# Monochromacy



## Original Color

51.0355, 41.7482, 83.2103

## Achromatopsia

42.3164, 44.5201, 48.4824

## Achromatomaly

44.8745, 43.0179, 59.3642

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.0355, 41.7482, 83.2103 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(203, 154, 234)` looks like.

```
.text, #text, p{  
    color:rgb(203, 154, 234)  
}
```

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(203, 154, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 154, 234) }
```

## Border

The CSS property to change the border of an element to XYZ 51.0355, 41.7482, 83.2103 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(203, 154, 234) }
```



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

```
.border{ border-color:rgb(203, 154, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 154, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 154, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 154, 234);  
box-shadow:4px 4px 4px 4px rgb(203, 154,  
234) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.0355, 41.7482, 83.2103 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 154, 234) }
```

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

```
.background{ background-color: rgb(203,  
154, 234) }
```

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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