

# Converting Colors

XYZ(50.3177, 30.9081, 97.9129)

Have a look what the booklet for  
XYZ(50.3177, 30.9081, 97.9129)  
contains.

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# Color

**XYZ(50.2419, 30.8689,  
97.9180)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D566FF
RGB	213, 102, 255
RGB Percent	84%, 40%, 100%
CMY	0.1647, 0.6000, 0.0000
CMYK	0.16, 0.60, 0.00, 0.00
HSL	284°, 100%, 70%
HSV	284°, 60%, 100%
XYZ	50.2419, 30.8689, 97.9180
YIQ	152.6310, 17.0430, 71.1150

# Conversions

## Conversions Part 2

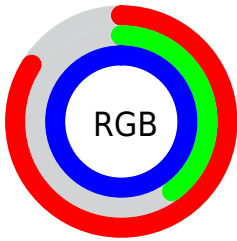
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	213, 102, 255
Decimal	13985535
CIE <sub>Lab</sub>	62.40, 66.36, -57.88
CIE <sub>LCh</sub>	62, 88.056, 318.904
Y <sub>xy</sub>	30.8689, 0.2806, 0.1724
Android (android.graphics.Color)	4292175615 (0xFFD566FF)
YUV	152.6310, 50.4679, 52.9436
Hunter-Lab	55.5598, 64.1853, -65.6002

# Details

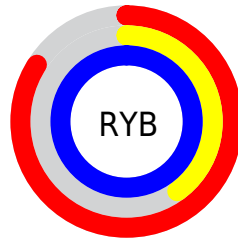
The XYZ color **50.2419, 30.8689, 97.9180** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **49.6605, 78.4089, 25.0886**, and the grayscale version is **29.9022, 31.4595, 34.2593**.

A 20% lighter version of the original color is **71.5169, 52.9337, 101.0556**, and **24.4963, 12.8011, 54.0031** is the 20% darker color. If you saturate the color by 10%, you get **46.1236, 25.5808, 97.1144**, and if you desaturate by 10%, it is **55.2205, 37.7454, 98.9829**.

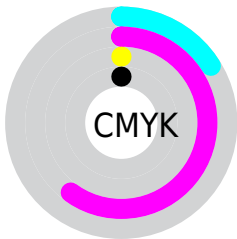
# Distribution



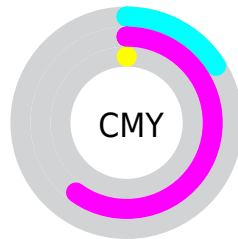
- Red (84%)
- Green (40%)
- Blue (100%)



- Red (84%)
- Yellow (40%)
- Blue (100%)



- Cyan (16%)
- Magenta (60%)
- Yellow (0%)
- Black (0%)




- Cyan (16%)
- Magenta (60%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.2419, 30.8689, 97.9180 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 50.2419, 30.8689, 97.9180 by changing the saturation by 10% instead.





 50.2419, 30.8689,  
97.9180


 50.2419, 30.8689,  
97.9180

378.0475,  
305.9339, 574.6863


 35.8242, 20.4990,  
73.9558

 89.7229, 61.0336,  
160.3199


 24.4680, 12.7583,  
54.2613


 115.5169, 81.5972,  
199.5967

 15.8077, 7.2623,  
38.4160


 145.8337,  
106.3276, 244.8153

 9.4782, 3.6267,  
26.0014

 181.0387,  
135.6091, 296.3945

 5.1140, 1.4670,  
16.5989

221.4972,  
169.8260, 354.7526

 2.3497, 0.2653,  
9.7900

267.5746,

 0.8199, 0.0000,

209.3629, 420.3082

5.1562

319.6363,  
254.6040, 493.4800

■ 0.0000, 0.0000,  
2.2788

■ 0.0000, 0.0000,  
0.7193

■ 50.2419, 30.8689,  
97.9180

■ 50.2419, 30.8689,  
97.9180

■ 46.1236, 25.5808,  
97.1144

■ 55.2205, 37.7454,  
98.9829

■ 42.7879, 21.7305,  
96.5470

■ 61.1211, 46.3352,  
100.3299

■ 40.1474, 19.1439,  
96.1869

■ 68.0033, 56.7547,  
101.9783

■ 38.0583, 17.5347,  
95.9864

■ 75.9201, 69.1090,  
103.9457

■ 38.0580, 17.5345,  
95.9864

■ 84.9211, 83.4950,  
106.2481

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



37.4162, 30.8689, 141.9263



50.2419, 30.8689, 97.9180



58.0938, 30.8689, 47.9037

# Triad

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



50.2419, 30.8689, 97.9180



33.9791, 30.8689, 1.5776



12.5505, 30.8689, 59.7013

# Complementary

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



50.2419, 30.8689, 97.9180



49.6605, 78.4089, 25.0886

# 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.



12.0971, 30.8689, 22.4881



50.2419, 30.8689, 97.9180



22.5185, 30.8689, 1.8984

# Square

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



50.2419, 30.8689, 97.9180



47.1464, 30.8689, 4.4337



15.2270, 30.8689, 6.2832



16.6983, 30.8689, 111.3957



# Rectangle

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



50.2419, 30.8689, 97.9180



58.3344, 30.8689, 24.4342



15.2270, 30.8689, 6.2832



12.0129, 30.8689, 44.8383

# Sweetspot

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



50.2431, 30.8701, 97.9182



77.6305, 71.8182, 104.3785



33.7095, 30.4040, 98.6996



16.0861, 14.5334, 22.2073



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.



50.2431, 30.8701, 97.9182



45.3957, 24.7000, 96.9827



59.1567, 36.0296, 72.8391



18.2779, 18.0350, 22.7677



20.0375, 9.2402, 50.1620



2.0563, 0.9540, 4.8890



# Inverse Universe

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



51.0260, 32.7773, 30.0238



47.0192, 27.2177, 21.1224



45.6240, 76.0987, 35.2623



18.2142, 18.0690, 19.7452



22.1799, 11.3613, 4.3320

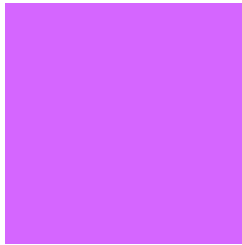


2.2033, 1.1237, 0.6518



# Previews

## White Background



This preview shows how the XYZ color 50.2419, 30.8689, 97.9180 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

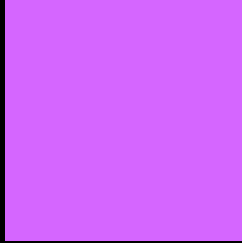
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.2419, 30.8689, 97.9180 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

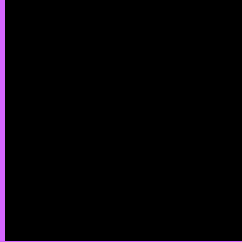
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 50.2419, 30.8689, 97.9180**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.2419, 30.8689, 97.9180.



This preview shows how white text looks on a background with the XYZ color 50.2419, 30.8689,

97.9180.

# 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

50.2419, 30.8689, 97.9180

### Protanopia

34.3488, 31.3429, 98.8471

### Deuteranopia

32.3770, 31.4374, 91.5504



## Tritanopia

36.3714, 30.6285, 29.9815

# Trichromacy



## Original Color

50.2419, 30.8689, 97.9180



## Protanomaly

37.6679, 29.3819, 98.2937



## Deuteranomaly

35.9405, 29.2081, 93.3660



## Tritanomaly

40.2399, 30.0763, 49.0318

# Monochromacy



## Original Color

50.2419, 30.8689, 97.9180



## Achromatopsia

30.2779, 31.8547, 34.6897



## Achromatomaly

35.4986, 29.8819, 52.6120

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.2419, 30.8689, 97.9180 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(213, 102, 255)` looks like.

```
.text, #text, p{  
    color:rgb(213, 102, 255)  
}
```

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(213, 102, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(213, 102, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 50.2419, 30.8689, 97.9180 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(213, 102, 255) }
```



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

```
.border{ border-color:rgb(213, 102, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(213, 102, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(213, 102, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(213, 102, 255);  
box-shadow:4px 4px 4px 4px rgb(213, 102,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.2419, 30.8689, 97.9180 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(213, 102, 255) }
```

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

```
.background{ background-color: rgb(213,  
102, 255) }
```

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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