

# Converting Colors

XYZ(48.0765, 29.7558, 97.8218)

Have a look what the booklet for  
XYZ(48.0765, 29.7558, 97.8218)  
contains.

<b>XYZ(47.9782, 29.7019, 97.8120)</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(47.9782, 29.7019,  
97.8120)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CD66FF
RGB	205, 102, 255
RGB Percent	80%, 40%, 100%
CMY	0.1961, 0.6000, 0.0000
CMYK	0.20, 0.60, 0.00, 0.00
HSL	280°, 100%, 70%
HSV	280°, 60%, 100%
XYZ	47.9782, 29.7019, 97.8120
YIQ	150.2390, 12.2750, 69.4190

# Conversions

## Conversions Part 2

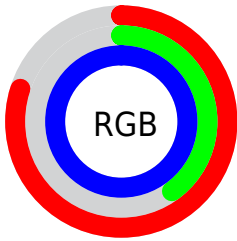
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	205, 102, 255
Decimal	13461247
CIE <sub>Lab</sub>	61.40, 64.51, -59.54
CIE <sub>LCh</sub>	61, 87.783, 317.295
Yxy	29.7019, 0.2734, 0.1692
Android (android.graphics.Color)	4291651327 (0xFFCD66FF)
YUV	150.2390, 51.6472, 48.0254
Hunter-Lab	54.4994, 61.7672, -68.2601

# Details

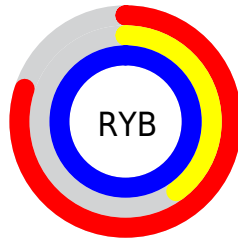
The XYZ color **47.9782, 29.7019, 97.8120** is a light color, and the websafe version is hex **CC66FF**. A complement of this color would be **51.1076, 79.1549, 25.1562**, and the grayscale version is **28.8760, 30.3798, 33.0836**.

A 20% lighter version of the original color is **71.5169, 52.9337, 101.0556**, and **23.0491, 12.1110, 53.9462** is the 20% darker color. If you saturate the color by 10%, you get **43.6088, 24.2844, 96.9967**, and if you desaturate by 10%, it is **53.2427, 36.7257, 98.8903**.

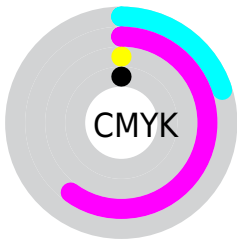
# Distribution



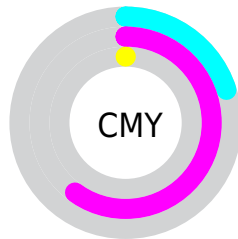
- Red (80%)
- Green (40%)
- Blue (100%)



- Red (80%)
- Yellow (40%)
- Blue (100%)



- Cyan (20%)
- Magenta (60%)
- Yellow (0%)
- Black (0%)




- Cyan (20%)
- Magenta (60%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.9782, 29.7019, 97.8120 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 47.9782, 29.7019, 97.8120 by changing the saturation by 10% instead.





 47.9782, 29.7019,  
97.8120

 47.9782, 29.7019,  
97.8120


369.2897,  
300.5125, 574.3414


 34.0208, 19.6124,  
73.8678


 86.3818, 59.1904,  
160.1727


 23.0725, 12.1136,  
54.1897


 111.5588, 79.3583,  
199.4262

 14.7681, 6.8211,  
38.3592


 141.2063,  
103.6544, 244.6201

 8.7420, 3.3505,  
25.9576

 175.6897,  
132.4631, 296.1726

 4.6291, 1.3173,  
16.5664

215.3744,  
166.1689, 354.5025

 2.0638, 0.1546,  
9.7672

260.6258,

 0.6694, 0.0000,

205.1561, 420.0282

5.1413

311.8091,  
249.8092, 493.1683

■ 0.0000, 0.0000,  
2.2702

■ 0.0000, 0.0000,  
0.7145

■ 47.9782, 29.7019,  
97.8120

■ 47.9782, 29.7019,  
97.8120

■ 43.6088, 24.2844,  
96.9967

■ 53.2427, 36.7257,  
98.8903

■ 40.0560, 20.3222,  
96.4191

■ 59.4648, 45.4811,  
100.2523

■ 37.2317, 17.6407,  
96.0504

■ 66.7046, 56.0851,  
101.9175

■ 34.9910, 15.9535,  
95.8428

■ 75.0163, 68.6429,  
103.9033

■ 34.9907, 15.9532,  
95.8428

■ 84.4498, 83.2519,  
106.2260

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.



35.3879, 29.7019, 139.5666



47.9782, 29.7019, 97.8120



56.0285, 29.7019, 48.5057

# Triad

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



47.9782, 29.7019, 97.8120



33.4211, 29.7019, 1.4872



11.8510, 29.7019, 55.2676

# Complementary

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



47.9782, 29.7019, 97.8120



51.1076, 79.1549, 25.1562

# 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.



11.5939, 29.7019, 20.2365



47.9782, 29.7019, 97.8120



22.1102, 29.7019, 1.6636

# Square

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



47.9782, 29.7019, 97.8120



46.2031, 29.7019, 4.4583



14.8167, 29.7019, 5.4941



15.6532, 29.7019, 105.5682



# Rectangle

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



47.9782, 29.7019, 97.8120



56.6073, 29.7019, 24.8940



14.8167, 29.7019, 5.4941



11.3933, 29.7019, 41.1406

# Sweetspot

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



47.9793, 29.7031, 97.8122



76.8103, 71.3954, 104.3401



34.9216, 32.8284, 99.1037



15.8846, 14.4295, 22.1979



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.



47.9793, 29.7031, 97.8122



42.8349, 23.3798, 96.8629



60.2047, 36.4487, 78.3580



18.1819, 17.9855, 22.7632



18.4471, 8.4203, 50.0876



1.9111, 0.8791, 4.8822



# Inverse Universe

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



51.6594, 33.0306, 33.3592



47.6426, 27.4670, 24.4052



45.1036, 75.8905, 32.5222



18.2541, 18.0849, 19.9551



22.4320, 11.4621, 5.6596

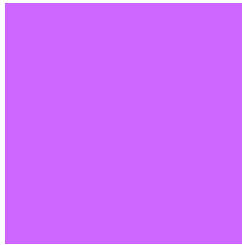


2.2319, 1.1352, 0.8028



# Previews

## White Background



This preview shows how the XYZ color 47.9782, 29.7019, 97.8120 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

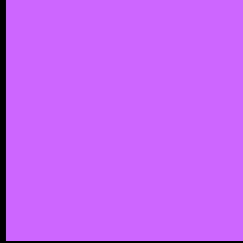
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.9782, 29.7019, 97.8120 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

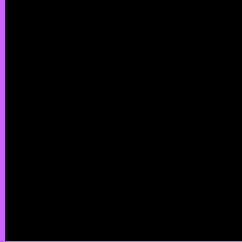
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 47.9782, 29.7019, 97.8120**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.9782, 29.7019, 97.8120.



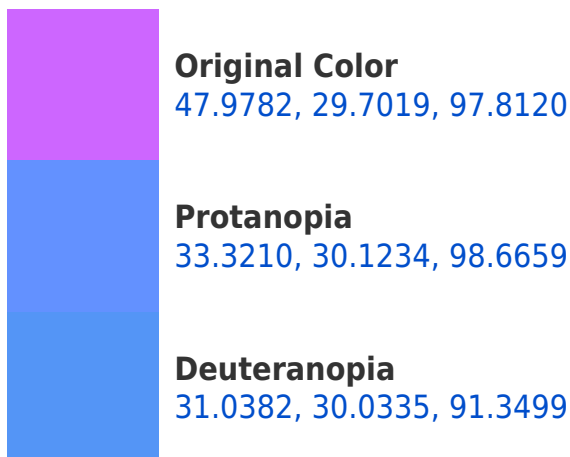
This preview shows how white text looks on a background with the XYZ color 47.9782, 29.7019,

97.8120.

# 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





## Tritanopia

34.0845, 29.4496, 29.8745

# Trichromacy



## Original Color

47.9782, 29.7019, 97.8120



## Protanomaly

36.3815, 28.3238, 98.1573



## Deuteranomaly

34.2522, 27.9313, 93.2085



## Tritanomaly

37.8594, 28.8491, 48.9204

# Monochromacy



## Original Color

47.9782, 29.7019, 97.8120



## Achromatopsia

28.9890, 30.4987, 33.2131



## Achromatomaly

34.0422, 28.9519, 51.3710

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.9782, 29.7019, 97.8120 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(205, 102, 255)` looks like.

```
.text, #text, p{  
    color:rgb(205, 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(205, 102, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 102, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 47.9782, 29.7019, 97.8120 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".

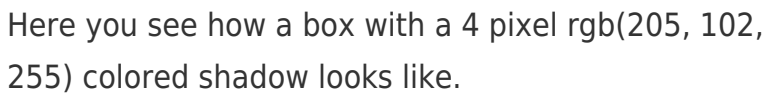
```
.border, #border, table{ border:4px solid rgb(205, 102, 255) }
```



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

```
.border{ border-color:rgb(205, 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(205, 102, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 102, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 102, 255);  
box-shadow:4px 4px 4px 4px rgb(205, 102,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.9782, 29.7019, 97.8120 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 102, 255) }
```

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

```
.background{ background-color: rgb(205,  
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](#).

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