

# Converting Colors

XYZ(22.0197, 9.8700, 67.9696)

Have a look what the booklet for  
XYZ(22.0197, 9.8700, 67.9696)  
contains.

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# Color

**XYZ(21.9921, 9.8603,  
67.7619)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8200DB
RGB	130, 0, 219
RGB Percent	51%, 0%, 86%
CMY	0.4902, 1.0000, 0.1412
CMYK	0.41, 1.00, 0.00, 0.14
HSL	276°, 100%, 43%
HSV	276°, 100%, 86%
XYZ	21.9921, 9.8603, 67.7619
YIQ	63.8360, 7.1810, 95.6690

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	130, 0, 219
Decimal	8519899
CIELab	37.59, 75.96, -78.36
CIELCh	38, 109.135, 314.112
Yxy	9.8603, 0.2208, 0.0990
Android (android.graphics.Color)	4286709979 (0xFF8200DB)
YUV	63.8360, 76.4959, 58.0258
Hunter-Lab	31.4011, 70.0624, -105.9638

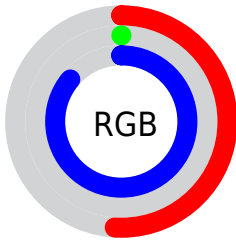
# Details

The XYZ color **21.9921, 9.8603, 67.7619** is a dark color, and the websafe version is hex **6600CC**.

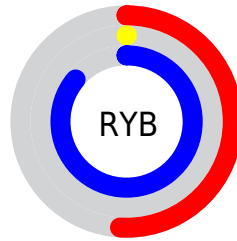
The color can be described as dark washed purple. A complement of this color would be **29.4511, 52.7869, 8.6367**, and the grayscale version is **4.7380, 4.9848, 5.4284**.

A 20% lighter version of the original color is **42.4045, 24.0337, 97.0117**, and **8.8363, 3.8019, 34.4505** is the 20% darker color. If you saturate the color by 10%, you get **21.9927, 9.8606, 67.7622**, and if you desaturate by 10%, it is **23.7026, 11.1652, 67.9239**.

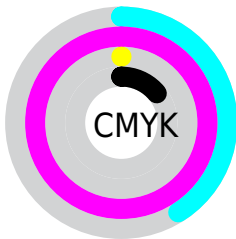
# Distribution



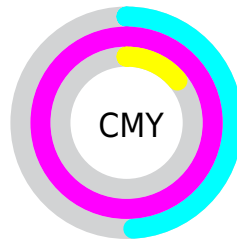
- Red (51%)
- Green (0%)
- Blue (86%)



- Red (51%)
- Yellow (0%)
- Blue (86%)



- Cyan (41%)
- Magenta (100%)
- Yellow (0%)
- Black (14%)




- Cyan (49%)
- Magenta (100%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.9921, 9.8603, 67.7619 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 21.9921, 9.8603, 67.7619 by changing the saturation by 10% instead.





 21.9921, 9.8603,  
67.7619


 21.9921, 9.8603,  
67.7619


255.1382,  
189.6721, 471.2271


 13.9677, 5.3064,  
49.2386


 46.2119, 25.5324,  
117.6624


 8.1797, 2.4282,  
34.4418


 63.1380, 37.4194,  
149.8768


 4.2629, 0.8403,  
22.9531


 83.7619, 52.5196,  
187.4918

 1.8519, 0.0000,  
14.3539

 108.4492, 71.2174,  
230.9261

 0.5487, 0.0000,  
8.2257

 137.5651, 93.8971,  
280.5983

 0.0000, 0.0000,  
4.1499

 171.4750,

 0.0000, 0.0000,

120.9432, 336.9268

1.7079

210.5442,  
152.7401, 400.3302

■ 0.0000, 0.0000,  
0.3661

■ 0.0000, 0.0000,  
0.0000

■ 21.9921, 9.8603,  
67.7619

■ 21.9921, 9.8603,  
67.7619

■ 21.9927, 9.8606,  
67.7622

■ 23.7026, 11.1652,  
67.9239

■ 25.8566, 13.1786,  
68.1989

■ 28.5637, 16.1142,  
68.6229

■ 31.8859, 20.0926,  
69.2157

■ 35.8760, 25.2152,  
69.9942

■ 40.5805, 31.5714,  
70.9731

■ 46.0413, 39.2412,  
72.1657

■ 52.2967, 48.2978,  
73.5841

■ 59.3823, 58.8090,  
75.2395

# Harmonies

## Analogous

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



12.9981, 9.8603, 106.0319



21.9921, 9.8603, 67.7619



28.8329, 9.8603, 24.8814

# Triad

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



21.9921, 9.8603, 67.7619



13.4990, 9.8603, 0.0000



1.4905, 9.8603, 22.9393

# Complementary

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



21.9921, 9.8603, 67.7619



29.4511, 52.7869, 8.6367

# 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.



1.5220, 9.8603, 3.3262



21.9921, 9.8603, 67.7619



6.4919, 9.8603, 0.0000

# Square

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



21.9921, 9.8603, 67.7619



22.5103, 9.8603, 0.0000



2.8331, 9.8603, 0.0000



2.7040, 9.8603, 64.9536



# Rectangle

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



21.9921, 9.8603, 67.7619



29.8457, 9.8603, 8.2328



2.8331, 9.8603, 0.0000



1.3855, 9.8603, 13.7016

# Sweetspot

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



21.9927, 9.8606, 67.7622



64.7834, 55.0934, 101.8274



16.5487, 12.6395, 68.5855



13.1386, 10.7613, 21.6346



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.



21.9927, 9.8606, 67.7622



30.8821, 13.8352, 95.6505



39.7268, 19.2654, 56.7292



13.0760, 12.9973, 16.4717



13.1676, 5.9123, 40.1856



0.9497, 0.4329, 2.6079



# Inverse Universe

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



31.0165, 15.7813, 10.8617



43.7197, 22.2519, 14.9880



25.4428, 50.7077, 9.0296



13.2743, 13.1388, 14.7055



18.4424, 9.3780, 6.7098

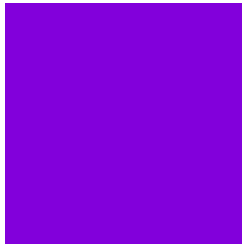


1.2368, 0.6244, 0.6560



# Previews

## White Background



This preview shows how the XYZ color 21.9921, 9.8603, 67.7619 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

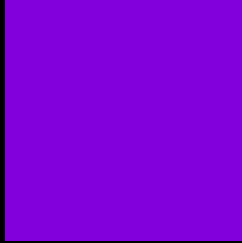
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



This preview shows how the XYZ color 21.9921, 9.8603, 67.7619 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

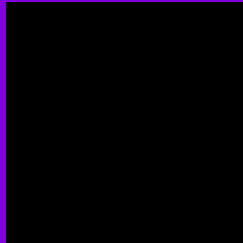
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 21.9921, 9.8603, 67.7619**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.9921, 9.8603, 67.7619.



This preview shows how white text looks on a background with the XYZ color 21.9921, 9.8603,



# 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

21.9921, 9.8603, 67.7619

### Deuteranopia

10.0859, 10.2973, 33.8037

### Tritanopia

10.7738, 10.1533, 11.5172

# Trichromacy



**Original Color**

21.9921, 9.8603, 67.7619

**Deuteranomaly**

10.9745, 7.0276, 43.9581

**Tritanomaly**

12.7167, 7.9840, 24.9156

# Monochromacy



**Original Color**

21.9921, 9.8603, 67.7619

**Achromatopsia**

4.8732, 5.1269, 5.5832

**Achromatomaly**

8.2076, 5.0166, 18.3050

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.9921, 9.8603, 67.7619 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(130, 0, 219)` looks like.

```
.text, #text, p{  
    color:rgb(130, 0, 219)  
}
```

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(130, 0, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(130, 0, 219) }
```

## Border

The CSS property to change the border of an element to XYZ 21.9921, 9.8603, 67.7619 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(130, 0, 219) }
```

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

```
.border{ border-color:rgb(130, 0, 219) }
```

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

Here you see how a box with a 4 pixel rgb(130, 0, 219) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(130, 0, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(130, 0, 219);  
box-shadow:4px 4px 4px 4px rgb(130, 0,  
219) }
```



# Background

The CSS property to change the background color of an element to XYZ 21.9921, 9.8603, 67.7619 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(130, 0, 219) }
```

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

```
.background{ background-color: rgb(130, 0,  
219) }
```

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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