

# Converting Colors

XYZ(17.5805, 7.9736, 50.0470)

Have a look what the booklet for  
XYZ(17.5805, 7.9736, 50.0470)  
contains.

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# Color

**XYZ(17.5723, 7.9725,  
49.9029)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7B00BF
RGB	123, 0, 191
RGB Percent	48%, 0%, 75%
CMY	0.5176, 1.0000, 0.2510
CMYK	0.36, 1.00, 0.00, 0.25
HSL	279°, 100%, 37%
HSV	279°, 100%, 75%
XYZ	17.5723, 7.9725, 49.9029
YIQ	58.5510, 11.9970, 85.4770

# Conversions

## Conversions Part 2

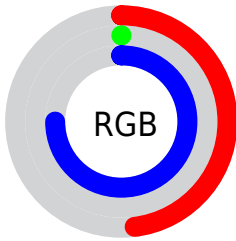
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	123, 0, 191
Decimal	8061119
CIE <sub>Lab</sub>	33.93, 69.64, -68.12
CIE <sub>LCh</sub>	34, 97.420, 315.633
Yxy	7.9725, 0.2329, 0.1057
Android (android.graphics.Color)	4286251199 (0xFF7B00BF)
YUV	58.5510, 65.2974, 56.5218
Hunter-Lab	28.2356, 61.6763, -85.0227

# Details

The XYZ color **17.5723, 7.9725, 49.9029** is a dark color, and the websafe version is hex **9900CC**. A complement of this color would be **21.0146, 38.4906, 6.3218**, and the grayscale version is **4.0098, 4.2186, 4.5940**.

A 20% lighter version of the original color is **38.9747, 21.9535, 91.8058**, and **6.4938, 2.8343, 23.4974** is the 20% darker color. If you saturate the color by 10%, you get **17.5728, 7.9728, 49.9031**, and if you desaturate by 10%, it is **18.8142, 8.9610, 50.0284**.

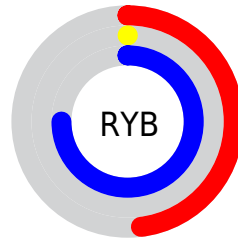
# Distribution



Red (48%)

Green (0%)

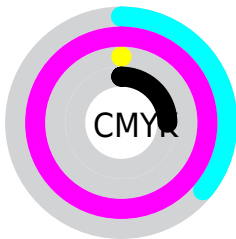
Blue (75%)



Red (48%)

Yellow (0%)

Blue (75%)

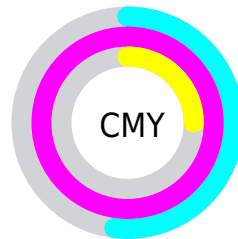


Cyan (36%)

Magenta (100%)

Yellow (0%)

Black (25%)



Cyan (52%)

Magenta (100%)


Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 17.5723, 7.9725, 49.9029 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 17.5723, 7.9725, 49.9029 by changing the saturation by 10% instead.





 17.5723, 7.9725,  
49.9029


 17.5723, 7.9725,  
49.9029


231.5416,  
175.5161, 403.0103


 10.7412, 4.0774,  
34.9656


 38.8430, 21.9045,  
91.4258


 5.9591, 1.7169,  
23.3530


 54.0133, 32.7102,  
118.8485


 2.8606, 0.4346,  
14.6467


 72.6940, 46.5881,  
151.2701

 1.0805, 0.0000,  
8.4279

 95.2505, 63.9228,  
189.1091

 0.0087, 0.0000,  
4.2783

 122.0482, 85.0985,  
232.7841

 0.0000, 0.0000,  
1.7792


 153.4524,


 0.0000, 0.0000,

110.4997, 282.7136

0.4142

 189.8284,  
140.5108, 339.3162


 0.0000, 0.0000,  
0.0000

 17.5723, 7.9725,  
49.9029


 17.5723, 7.9725,  
49.9029


 17.5728, 7.9728,  
49.9031

 18.8142, 8.9610,  
50.0284

 20.3550, 10.4455,  
50.2337

 22.2794, 12.5932,  
50.5469

 24.6309, 15.4890,  
50.9819

 27.4463, 19.2047,  
51.5507

■ 30.7581, 23.8035,  
52.2638

■ 34.5955, 29.3422,  
53.1306

■ 38.9855, 35.8730,  
54.1598

■ 43.9528, 43.4438,  
55.3593

# Harmonies

## Analogous

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



10.7029, 7.9725, 79.2372



17.5723, 7.9725, 49.9029



22.5582, 7.9725, 18.2403

# Triad

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



17.5723, 7.9725, 49.9029



10.4289, 7.9725, 0.0000



1.3598, 7.9725, 19.2913

# Complementary

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



17.5723, 7.9725, 49.9029



21.0146, 38.4906, 6.3218

# 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.



1.3411, 7.9725, 3.2288



17.5723, 7.9725, 49.9029



5.1290, 7.9725, 0.0000

# Square

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



17.5723, 7.9725, 49.9029



17.2922, 7.9725, 0.0000



2.3447, 7.9725, 0.0000



2.4190, 7.9725, 51.3945



# Rectangle

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



17.5723, 7.9725, 49.9029



23.1261, 7.9725, 6.0973



2.3447, 7.9725, 0.0000



1.2572, 7.9725, 11.9068

# Sweetspot

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



17.5728, 7.9728, 49.9031



61.6122, 52.0414, 95.0768



11.5963, 8.1461, 50.2516



12.8636, 10.4592, 20.7261



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



17.5728, 7.9728, 49.9031



31.1985, 14.1378, 89.3637



28.3262, 13.8125, 37.0256



9.5914, 9.5218, 12.0046



11.6387, 5.2861, 32.7998



0.5246, 0.2425, 1.2880



# Inverse Universe

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



22.5293, 11.4937, 6.4995



40.2452, 20.5434, 11.0893



18.8114, 37.3340, 7.1610



9.6667, 9.5910, 10.6339



14.8410, 7.5676, 4.4565



0.6129, 0.3091, 0.3407



# Previews

## White Background



This preview shows how the XYZ color 17.5723, 7.9725, 49.9029 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



## 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 17.5723, 7.9725, 49.9029**

## **Background**



This preview shows how black text looks on a background with the XYZ color 17.5723, 7.9725, 49.9029.



This preview shows how white text looks on a background with the XYZ color 17.5723, 7.9725,



# 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

17.5723, 7.9725, 49.9029

### Protanopia

9.7710, 8.3820, 37.6621

### Deuteranopia

8.2044, 8.3543, 27.5657



## Tritanopia

9.4435, 8.4361, 8.7200

# Trichromacy



## Original Color

17.5723, 7.9725, 49.9029

## Protanomaly

10.0593, 5.9737, 41.6971

## Deuteranomaly

8.7883, 5.6773, 34.3508

## Tritanomaly

10.8775, 6.7850, 18.5056

# Monochromacy



## Original Color

17.5723, 7.9725, 49.9029

## Achromatopsia

4.1570, 4.3735, 4.7627

## Achromatomaly

6.8266, 4.2416, 14.3688

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 17.5723, 7.9725, 49.9029 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(123, 0, 191)` looks like.

```
.text, #text, p{  
    color:rgb(123, 0, 191)  
}
```

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(123, 0, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 0, 191) }
```

## Border

The CSS property to change the border of an element to XYZ 17.5723, 7.9725, 49.9029 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(123, 0, 191) }
```



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

```
.border{ border-color:rgb(123, 0, 191) }
```

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

Here you see how a box with a 4 pixel rgb(123, 0, 191) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 0, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 0, 191);  
box-shadow:4px 4px 4px 4px rgb(123, 0,  
191) }
```

# Background

The CSS property to change the background color of an element to XYZ 17.5723, 7.9725, 49.9029 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 0, 191) }
```

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

```
.background{ background-color: rgb(123, 0,  
191) }
```

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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