

Converting Colors

XYZ(12.2459, 4.9079, 64.0570)

Have a look what the booklet for
XYZ(12.2459, 4.9079, 64.0570)
contains.

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Color

**XYZ(12.2252, 4.9002,
63.9198)**

Conversions

Conversions Part 1

Format	Color
Hex	0700D6
RGB	7, 0, 214
RGB Percent	3%, 0%, 84%
CMY	0.9724, 1.0000, 0.1608
CMYK	0.97, 1.00, 0.00, 0.16
HSL	242°, 100%, 42%
HSV	242°, 100%, 84%
XYZ	12.2252, 4.9002, 63.9198
YIQ	26.4890, -64.5220, 68.0380

Conversions

Conversions Part 2

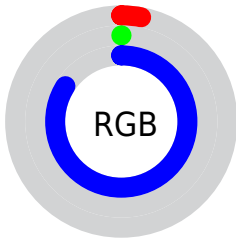
Format	Color
R_YB	7, 0, 214
Decimal	458966
CIE _{Lab}	26.45, 69.42, -94.28
CIE _{LCh}	26, 117.081, 306.367
Yxy	4.9002, 0.1508, 0.0605
Android (android.graphics.Color)	4278649046 (0xFF0700D6)
YUV	26.4890, 92.4429, -17.0919
Hunter-Lab	22.1364, 59.8410, -155.7070

Details

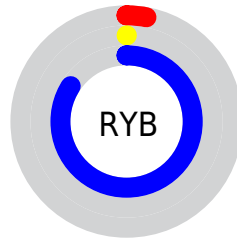
The XYZ color **12.2252, 4.9002, 63.9198** is a dark color, and the websafe version is hex **0000CC**. The color can be described as dark washed blue. A complement of this color would be **49.7649, 61.3515, 9.2191**, and the grayscale version is **0.9617, 1.0117, 1.1018**.

A 20% lighter version of the original color is **26.4958, 14.3801, 95.9869**, and **6.0858, 2.4343, 32.0474** is the 20% darker color. If you saturate the color by 10%, you get **12.2259, 4.9005, 63.9201**, and if you desaturate by 10%, it is **12.8852, 5.6495, 64.0299**.

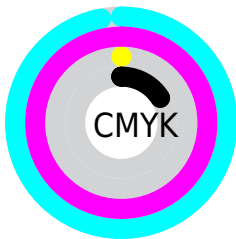
Distribution



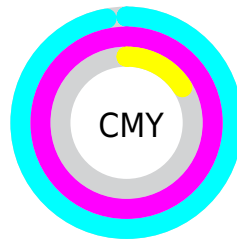
- Red (3%)
- Green (0%)
- Blue (84%)



- Red (3%)
- Yellow (0%)
- Blue (84%)



- Cyan (97%)
- Magenta (100%)
- Yellow (0%)
- Black (16%)



- Cyan (97%)
- Magenta (100%)
- Yellow (16%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2252, 4.9002, 63.9198 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 12.2252, 4.9002, 63.9198 by changing the saturation by 10% instead.

■ 12.2252, 4.9002,
63.9198

■ 12.2252, 4.9002,
63.9198

199.6301,
148.8564, 457.0995

■ 6.9705, 2.1888,
46.1400

■ 29.5179, 15.6024,
112.0938

■ 3.4898, 0.7139,
32.0068

■ 42.2867, 24.3621,
143.3250

■ 1.4178, 0.0000,
21.1018

■ 58.2908, 35.9066,
179.8771

■ 0.2688, 0.0000,
13.0065

■ 77.8957, 50.6204,
222.1686

■ 0.0000, 0.0000,
7.3022

■ 101.4668, 68.8879,
270.6180


■ 0.0000, 0.0000,
3.5705


■ 129.3693, 91.0935,

■ 0.0000, 0.0000,


325.6440

1.3928


 161.9686,
117.6215, 387.6649

 0.0000, 0.0000,
0.1361


 0.0000, 0.0000,
0.0000


 12.2252, 4.9002,
63.9198


 12.2252, 4.9002,
63.9198

 12.2259, 4.9005,
63.9201

 12.8852, 5.6495,
64.0299

 14.2340, 7.2074,
64.2595

 16.4462, 9.8146,
64.6461

 19.6335, 13.6121,
65.2111

■ 23.8913, 18.7193,
65.9725

■ 29.3033, 25.2409,
66.9461

■ 35.9452, 33.2713,
68.1460

■ 43.8859, 42.8964,
69.5853

■ 53.1896, 54.1961,
71.2760

Harmonies

Analogous

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



5.7211, 4.9002, 92.6854



12.2252, 4.9002, 63.9198



18.5889, 4.9002, 23.5901

Triad

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



12.2252, 4.9002, 63.9198



9.2397, 4.9002, 0.0000



0.0000, 4.9002, 8.7090

Complementary

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



12.2252, 4.9002, 63.9198



49.7649, 61.3515, 9.2191

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.



0.1645, 4.9002, 0.0000



12.2252, 4.9002, 63.9198



3.7346, 4.9002, 0.0000

Square

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



12.2252, 4.9002, 63.9198



16.2039, 4.9002, 0.0000



1.1130, 4.9002, 0.0000



0.4815, 4.9002, 39.4760

Rectangle

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



12.2252, 4.9002, 63.9198



20.4918, 4.9002, 7.1278



1.1130, 4.9002, 0.0000



0.0000, 4.9002, 3.8720

Sweetspot

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



12.2259, 4.9005, 63.9201



53.1309, 49.0863, 101.2821



35.2914, 51.1627, 71.6339



10.4278, 9.3639, 21.5078



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.



12.2259, 4.9005, 63.9201



18.1552, 7.2742, 95.0549



18.6388, 8.2065, 64.2202



11.7801, 12.0280, 15.6383



7.4068, 2.9709, 38.6362



0.4604, 0.1862, 2.3310

Inverse Universe

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



38.9881, 18.7988, 60.5733



57.9667, 27.9507, 90.0118



29.6900, 51.0026, 8.2797



12.9345, 12.6253, 15.5955



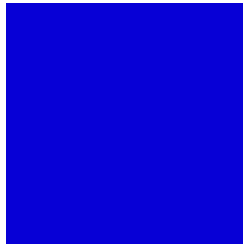
23.5737, 11.3658, 36.6545



1.4275, 0.6878, 2.2407

Previews

White Background



This preview shows how the XYZ color 12.2252, 4.9002, 63.9198 looks on a white background.

Color Contrast Check

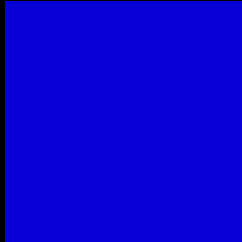
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.2252, 4.9002, 63.9198 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

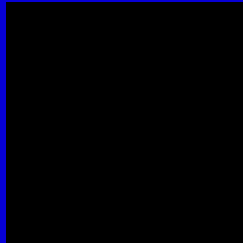
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2252, 4.9002, 63.9198

Background



This preview shows how black text looks on a background with the XYZ color 12.2252, 4.9002, 63.9198.



This preview shows how white text looks on a background with the XYZ color 12.2252, 4.9002,

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

12.2252, 4.9002, 63.9198

Protanopia

5.8742, 5.1937, 22.1656

Deuteranopia

4.8764, 5.1620, 15.7783



Tritanopia

3.5874, 5.1427, 7.4602

Trichromacy



Original Color

12.2252, 4.9002, 63.9198

Protanomaly

7.2294, 4.1102, 34.1305

Deuteranomaly

6.2467, 3.8852, 28.4377

Tritanomaly

4.7804, 3.4797, 20.1584

Monochromacy



Original Color

12.2252, 4.9002, 63.9198

Achromatopsia

1.0418, 1.0960, 1.1936

Achromatomaly

2.5545, 1.3758, 10.9574

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2252, 4.9002, 63.9198 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(7, 0, 214)` looks like.

```
.text, #text, p{  
    color:rgb(7, 0, 214)  
}
```

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(7, 0, 214) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(7, 0, 214) }
```

Border

The CSS property to change the border of an element to XYZ 12.2252, 4.9002, 63.9198 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(7, 0, 214) }
```


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

```
.border{ border-color:rgb(7, 0, 214) }
```

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

Here you see how a box with a 4 pixel `rgb(7, 0, 214)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(7, 0, 214); -webkit-box-shadow:4px  
4px 4px 4px rgb(7, 0, 214); box-shadow:4px  
4px 4px 4px rgb(7, 0, 214) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2252, 4.9002, 63.9198 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(7, 0, 214) }
```

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

```
.background{ background-color: rgb(7, 0,  
214) }
```

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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