

Converting Colors

XYZ(12.8268, 5.1506, 66.6481)

Have a look what the booklet for
XYZ(12.8268, 5.1506, 66.6481)
contains.

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Color

**XYZ(12.8209, 5.1475,
66.6475)**

Conversions

Conversions Part 1

Format	Color
Hex	0D00DA
RGB	13, 0, 218
RGB Percent	5%, 0%, 85%
CMY	0.9488, 1.0000, 0.1451
CMYK	0.94, 1.00, 0.00, 0.15
HSL	244°, 100%, 43%
HSV	244°, 100%, 85%
XYZ	12.8209, 5.1475, 66.6475
YIQ	28.7390, -62.2300, 70.5540

Conversions

Conversions Part 2

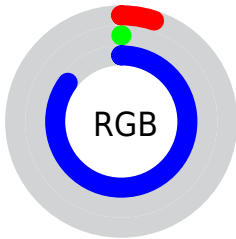
Format	Color
RYB	13, 0, 218
Decimal	852186
CIELab	27.15, 70.43, -95.41
CIELCh	27, 118.594, 306.433
Yxy	5.1475, 0.1515, 0.0608
Android (android.graphics.Color)	4279042266 (0xFF0D00DA)
YUV	28.7390, 93.3057, -13.8031
Hunter-Lab	22.6881, 61.1650, -158.2858

Details

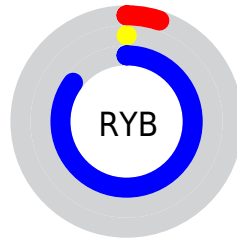
The XYZ color **12.8209, 5.1475, 66.6475** is a dark color, and the websafe version is hex **0000CC**. The color can be described as dark washed blue. A complement of this color would be **50.2349, 63.1152, 9.5348**, and the grayscale version is **1.0971, 1.1543, 1.2570**.

A 20% lighter version of the original color is **26.8083, 14.6271, 96.0181**, and **6.4330, 2.5732, 33.8758** is the 20% darker color. If you saturate the color by 10%, you get **12.8216, 5.1479, 66.6478**, and if you desaturate by 10%, it is **13.5828, 5.9606, 66.7645**.

Distribution



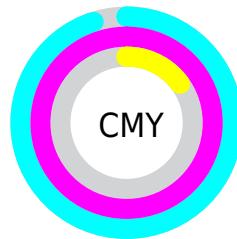
- Red (5%)
- Green (0%)
- Blue (85%)



- Red (5%)
- Yellow (0%)
- Blue (85%)



- Cyan (94%)
- Magenta (100%)
- Yellow (0%)
- Black (15%)



- Cyan (95%)
- Magenta (100%)
- Yellow (15%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8209, 5.1475, 66.6475 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 12.8209, 5.1475, 66.6475 by changing the saturation by 10% instead.

■ 12.8209, 5.1475,
66.6475

■ 12.8209, 5.1475,
66.6475

203.4275,
151.2372, 467.1563

■ 7.3815, 2.3341,
48.3384

■ 30.5857, 16.1349,
116.0510

■ 3.7502, 0.7917,
33.7331

■ 43.6418, 25.0776,
147.9825

■ 1.5618, 0.0000,
22.4129

■ 59.9675, 36.8322,
185.2919

■ 0.3673, 0.0000,
13.9594

■ 79.9282, 51.7830,
228.3978

■ 0.0000, 0.0000,
7.9540

■ 103.8891, 70.3146,
277.7186


■ 0.0000, 0.0000,
3.9782


■ 132.2158, 92.8112,


■ 0.0000, 0.0000,


333.6729


1.6134


 165.2735,
119.6573, 396.6793

 0.0000, 0.0000,
0.3003

 0.0000, 0.0000,
0.0000


 12.8209, 5.1475,
66.6475


 12.8209, 5.1475,
66.6475

 12.8216, 5.1479,
66.6478

 13.5828, 5.9606,
66.7645

 15.0642, 7.6190,
67.0066

 17.4336, 10.3658,
67.4119

 20.8017, 14.3453,
68.0025

■ 25.2630, 19.6798,
68.7970

■ 30.9010, 26.4769,
69.8118

■ 37.7910, 34.8332,
71.0616

■ 46.0022, 44.8373,
72.5598

■ 55.5986, 56.5709,
74.3188

Harmonies

Analogous

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



6.0178, 5.1475, 96.7029



12.8209, 5.1475, 66.6475



19.4608, 5.1475, 24.6017

Triad

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



12.8209, 5.1475, 66.6475



9.6693, 5.1475, 0.0000



0.0000, 5.1475, 9.1762

Complementary

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



12.8209, 5.1475, 66.6475



50.2349, 63.1152, 9.5348

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.



0.2033, 5.1475, 0.0000



12.8209, 5.1475, 66.6475



3.9171, 5.1475, 0.0000

Square

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



12.8209, 5.1475, 66.6475



16.9453, 5.1475, 0.0000



1.1735, 5.1475, 0.0000



0.5277, 5.1475, 41.3468

Rectangle

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



12.8209, 5.1475, 66.6475



21.4383, 5.1475, 7.4430



1.1735, 5.1475, 0.0000



0.0000, 5.1475, 4.0972

Sweetspot

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



12.8216, 5.1479, 66.6478



53.6173, 49.3371, 101.3048



34.9921, 49.7363, 74.0857



10.5380, 9.4207, 21.5129



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.



12.8216, 5.1479, 66.6478



18.2513, 7.3238, 95.0594



20.3868, 9.0479, 67.0018



12.4105, 12.6542, 16.4405



7.7115, 3.0996, 39.9302



0.5256, 0.2142, 2.5881

Inverse Universe

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



39.9271, 19.3109, 59.3498



56.9290, 27.5356, 84.5472



30.1193, 52.7452, 8.5934



13.5790, 13.2607, 16.3101



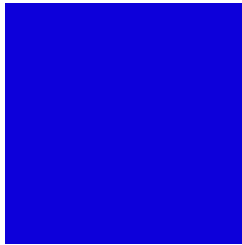
23.9349, 11.5750, 35.6327



1.5611, 0.7541, 2.3635

Previews

White Background



This preview shows how the XYZ color 12.8209, 5.1475, 66.6475 looks on a white background.

Color Contrast Check

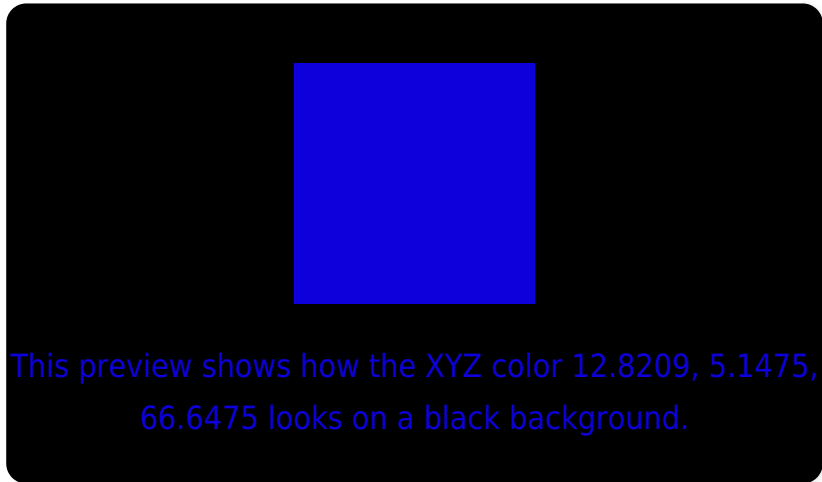
Large Text (above 18pt) WCAG AA ✓ Pass

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

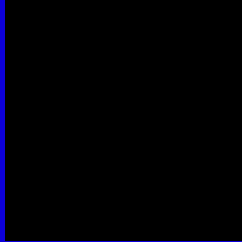
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8209, 5.1475, 66.6475

Background



This preview shows how black text looks on a background with the XYZ color 12.8209, 5.1475, 66.6475.



This preview shows how white text looks on a background with the XYZ color 12.8209, 5.1475,

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

12.8209, 5.1475, 66.6475

Protanopia

6.1365, 5.3880, 23.2708

Deuteranopia

5.0478, 5.3265, 16.3849



Tritanopia

3.7221, 5.3009, 7.8482

Trichromacy



Original Color

12.8209, 5.1475, 66.6475

Protanomaly

7.6471, 4.3348, 36.0310

Deuteranomaly

6.5124, 3.9944, 29.7059

Tritanomaly

4.9359, 3.5448, 20.8461

Monochromacy



Original Color

12.8209, 5.1475, 66.6475

Achromatopsia

1.1678, 1.2286, 1.3380

Achromatomaly

2.7743, 1.4966, 11.6979

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8209, 5.1475, 66.6475 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(13, 0, 218)` looks like.

```
.text, #text, p{  
    color:rgb(13, 0, 218)  
}
```

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(13, 0, 218) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(13, 0, 218) }
```

Border

The CSS property to change the border of an element to XYZ 12.8209, 5.1475, 66.6475 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(13, 0, 218) }
```


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

```
.border{ border-color:rgb(13, 0, 218) }
```

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

Here you see how a box with a 4 pixel rgb(13, 0, 218) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(13, 0, 218); -webkit-box-  
shadow:4px 4px 4px 4px rgb(13, 0, 218);  
box-shadow:4px 4px 4px 4px rgb(13, 0, 218)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.8209, 5.1475, 66.6475 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(13, 0, 218) }
```

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

```
.background{ background-color: rgb(13, 0,  
218) }
```

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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