

Converting Colors

XYZ(12.9911, 5.4611, 67.5945)

Have a look what the booklet for
XYZ(12.9911, 5.4611, 67.5945)
contains.

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Color

**XYZ(12.9570, 5.4561,
67.3881)**

Conversions

Conversions Part 1

Format	Color
Hex	000FDB
RGB	0, 15, 219
RGB Percent	0%, 6%, 86%
CMY	0.9998, 0.9412, 0.1412
CMYK	1.00, 0.93, 0.00, 0.14
HSL	236°, 100%, 43%
HSV	236°, 100%, 86%
XYZ	12.9570, 5.4561, 67.3881
YIQ	33.7710, -74.4240, 60.2640

Conversions

Conversions Part 2

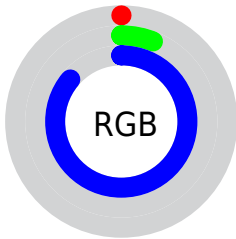
Format	Color
RYB	0, 14, 219
Decimal	4059
CIELab	28.00, 67.69, -94.58
CIELCh	28, 116.310, 305.590
Yxy	5.4561, 0.1510, 0.0636
Android (android.graphics.Color)	4278194139 (0xFF000FDB)
YUV	33.7710, 91.3179, -29.6172
Hunter-Lab	23.3583, 58.1381, -154.6994

Details

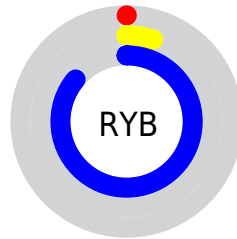
The XYZ color **12.9570, 5.4561, 67.3881** is a dark color, and the websafe version is hex **0000CC**. The color can be described as dark washed blue. A complement of this color would be **50.8230, 58.2786, 8.5718**, and the grayscale version is **1.4417, 1.5168, 1.6518**.

A 20% lighter version of the original color is **26.7978, 15.1697, 96.1234**, and **6.5216, 2.6086, 34.3422** is the 20% darker color. If you saturate the color by 10%, you get **12.9562, 5.4543, 67.3880**, and if you desaturate by 10%, it is **13.7287, 6.5098, 67.5511**.

Distribution



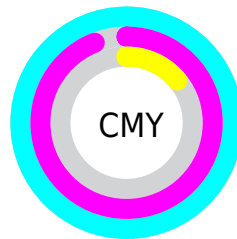
- Red (0%)
- Green (6%)
- Blue (86%)



- Red (0%)
- Yellow (5%)
- Blue (86%)



- Cyan (100%)
- Magenta (93%)
- Yellow (0%)
- Black (14%)



- Cyan (100%)
- Magenta (94%)
- Yellow (14%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9570, 5.4561, 67.3881 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 12.9570, 5.4561, 67.3881 by changing the saturation by 10% instead.

■ 12.9570, 5.4561,
67.3881

■ 12.9570, 5.4561,
67.3881

204.2851,
154.1370, 469.8640

■ 7.4757, 2.5173,
48.9365

■ 30.8285, 16.7918,
117.1223

■ 3.8103, 0.8853,
34.2039

■ 43.9494, 25.9574,
149.2419

■ 1.5954, 0.0000,
22.7716

■ 60.3476, 37.9674,
186.7547

■ 0.3894, 0.0000,
14.2213

■ 80.3884, 53.2062,
230.0791

■ 0.0000, 0.0000,
8.1342

■ 104.4372, 72.0581,
279.6337


■ 0.0000, 0.0000,
4.0919


■ 132.8594, 94.9077,


■ 0.0000, 0.0000,


335.8370

1.6759

 166.0202,
122.1392, 399.1076

 0.0000, 0.0000,
0.3442


 0.0000, 0.0000,
0.0000


 12.9570, 5.4561,
67.3881


 12.9570, 5.4561,
67.3881

 12.9562, 5.4543,
67.3880

 13.7287, 6.5098,
67.5511

 15.2231, 8.4556,
67.8479

 17.6150, 11.4614,
68.3020

 21.0169, 15.6501,
68.9312

■ 25.5247, 21.1277,
69.7509

■ 31.2229, 27.9884,
70.7748

■ 38.1881, 36.3174,
72.0153

■ 46.4902, 46.1933,
73.4840

■ 56.1942, 57.6888,
75.1914

Harmonies

Analogous

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



6.1720, 5.4561, 95.7518



12.9570, 5.4561, 67.3881



19.6308, 5.4561, 25.9014

Triad

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



12.9570, 5.4561, 67.3881



10.2130, 5.4561, 0.0000



0.1200, 5.4561, 9.0201

Complementary

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



12.9570, 5.4561, 67.3881



50.8230, 58.2786, 8.5718

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.



0.3603, 5.4561, 0.0142



12.9570, 5.4561, 67.3881



4.3108, 5.4561, 0.0000

Square

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



12.9570, 5.4561, 67.3881



17.4587, 5.4561, 0.0000



1.3790, 5.4561, 0.0000



0.6369, 5.4561, 40.2578

Rectangle

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



12.9570, 5.4561, 67.3881



21.7028, 5.4561, 8.2994



1.3790, 5.4561, 0.0000



0.1150, 5.4561, 4.0776

Sweetspot

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



12.9575, 5.4561, 67.3883



53.6068, 50.9078, 101.6085



35.8461, 54.8691, 63.8088



10.5357, 9.7759, 21.5816



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.



12.9575, 5.4561, 67.3883



18.2566, 7.6331, 95.1189



17.1290, 7.3541, 67.5348



12.4096, 12.7590, 16.4608



7.7110, 3.2914, 39.9673



0.5251, 0.2644, 2.5978

Inverse Universe

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



29.3002, 15.0957, 1.8209



41.3443, 21.3017, 2.4790



34.1998, 55.2350, 8.8604



13.0919, 13.0659, 13.7451



17.3875, 8.9560, 1.1545



1.1394, 0.5854, 0.1428

Previews

White Background



This preview shows how the XYZ color 12.9570, 5.4561, 67.3881 looks on a white background.

Color Contrast Check

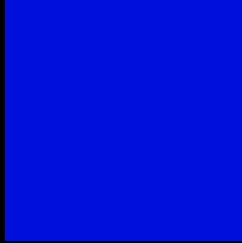
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.9570, 5.4561, 67.3881 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 12.9570, 5.4561, 67.3881

Background



This preview shows how black text looks on a background with the XYZ color 12.9570, 5.4561, 67.3881.



This preview shows how white text looks on a background with the XYZ color 12.9570, 5.4561, 67.3881.

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

12.9570, 5.4561, 67.3881

Protanopia

6.3342, 5.5582, 24.0315

Deuteranopia

5.2226, 5.4940, 17.0049



Tritanopia

3.8912, 5.5822, 8.0801

Trichromacy



Original Color

12.9570, 5.4561, 67.3881

Protanomaly

7.8994, 4.7862, 36.5839

Deuteranomaly

6.8481, 4.4965, 30.6440

Tritanomaly

5.2356, 4.1312, 21.2903

Monochromacy



Original Color

12.9570, 5.4561, 67.3881

Achromatopsia

1.5204, 1.5996, 1.7420

Achromatomaly

3.0718, 1.8940, 12.5156

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9570, 5.4561, 67.3881 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(0, 15, 219)` looks like.

```
.text, #text, p{  
    color:rgb(0, 15, 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(0, 15, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 15, 219) }
```

Border

The CSS property to change the border of an element to XYZ 12.9570, 5.4561, 67.3881 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(0, 15, 219) }
```


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

```
.border{ border-color:rgb(0, 15, 219) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 15, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 15, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 15, 219);  
box-shadow:4px 4px 4px 4px rgb(0, 15, 219)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.9570, 5.4561, 67.3881 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 15, 219) }
```

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

```
.background{ background-color: rgb(0, 15,  
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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