

Converting Colors

XYZ(12.0298, 5.1121, 49.7873)

Have a look what the booklet for
XYZ(12.0298, 5.1121, 49.7873)
contains.

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Color

**XYZ(12.0025, 5.1012,
49.6422)**

Conversions

Conversions Part 1

Format	Color
Hex	4700BF
RGB	71, 0, 191
RGB Percent	28%, 0%, 75%
CMY	0.7215, 1.0000, 0.2510
CMYK	0.63, 1.00, 0.00, 0.25
HSL	262°, 100%, 37%
HSV	262°, 100%, 75%
XYZ	12.0025, 5.1012, 49.6422
YIQ	43.0030, -18.9950, 74.4530

Conversions

Conversions Part 2

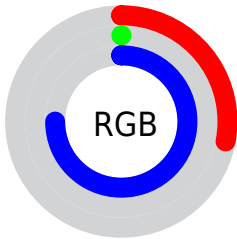
Format	Color
R_{YB}	71, 0, 191
Decimal	4653247
CIE _{Lab}	27.02, 65.41, -79.76
CIE _{LCh}	27, 103.151, 309.358
Yxy	5.1012, 0.1798, 0.0764
Android (android.graphics.Color)	4282843327 (0xFF4700BF)
YUV	43.0030, 72.9625, 24.5534
Hunter-Lab	22.5858, 55.3327, -114.5055

Details

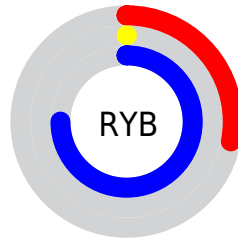
The XYZ color **12.0025, 5.1012, 49.6422** is a dark color, and the websafe version is hex **6600CC**. A complement of this color would be **26.3757, 41.2543, 6.5727**, and the grayscale version is **2.2303, 2.3464, 2.5552**.

A 20% lighter version of the original color is **29.0977, 16.0048, 91.1781**, and **4.4439, 1.7776, 23.4014** is the 20% darker color. If you saturate the color by 10%, you get **12.0030, 5.1014, 49.6424**, and if you desaturate by 10%, it is **13.2064, 6.0700, 49.7659**.

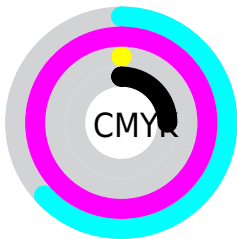
Distribution



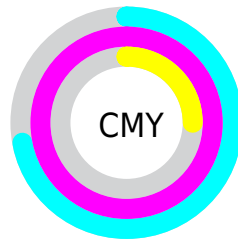
- Red (28%)
- Green (0%)
- Blue (75%)



- Red (28%)
- Yellow (0%)
- Blue (75%)



- Cyan (63%)
- Magenta (100%)
- Yellow (0%)
- Black (25%)



- Cyan (72%)
- Magenta (100%)
- Yellow (25%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0025, 5.1012, 49.6422 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 12.0025, 5.1012, 49.6422 by changing the saturation by 10% instead.

12.0025, 5.1012,
49.6422

12.0025, 5.1012,
49.6422

198.1914,
150.7954, 401.9600

6.8176, 2.3068,
34.7600

29.1165, 16.0356,
91.0354

3.3936, 0.7773,
23.1960

41.7763, 24.9444,
118.3834

1.3652, 0.0000,
14.5316

57.6584, 36.6600,
150.7238

0.2312, 0.0000,
8.3484

77.1282, 51.5669,
188.4751

0.0000, 0.0000,
4.2277

100.5510, 70.0495,
232.0558


0.0000, 0.0000,
1.7511

128.2923, 92.4922,


0.0000, 0.0000,

281.8845

0.3954


 160.7173,
119.2794, 338.3797

 0.0000, 0.0000,
0.0000

 12.0025, 5.1012,
49.6422


 12.0025, 5.1012,
49.6422


 12.0030, 5.1014,
49.6424

 13.2064, 6.0700,
49.7659

 14.8234, 7.5938,
49.9748

 16.9460, 9.8437,
50.2972

 19.6244, 12.9080,
50.7475

 22.9020, 16.8620,
51.3380

■ 26.8174, 21.7719,
52.0793

■ 31.4057, 27.6978,
52.9813

■ 36.6992, 34.6944,
54.0528

■ 42.7281, 42.8125,
55.3020

Harmonies

Analogous

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



6.2867, 5.1012, 74.1413



12.0025, 5.1012, 49.6422



17.0456, 5.1012, 18.3829

Triad

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



12.0025, 5.1012, 49.6422



8.2969, 5.1012, 0.0000



0.3587, 5.1012, 10.2382

Complementary

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



12.0025, 5.1012, 49.6422



26.3757, 41.2543, 6.5727

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.



0.4868, 5.1012, 0.7148



12.0025, 5.1012, 49.6422



3.6484, 5.1012, 0.0000

Square

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



12.0025, 5.1012, 49.6422



14.1812, 5.1012, 0.0000



1.3146, 5.1012, 0.0000



0.8974, 5.1012, 37.0186

Rectangle

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



12.0025, 5.1012, 49.6422



18.2739, 5.1012, 5.8182



1.3146, 5.1012, 0.0000



0.3253, 5.1012, 5.2985

Sweetspot

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



12.0030, 5.1014, 49.6424



55.8292, 49.0601, 94.8062



16.2373, 17.4283, 51.7985



11.4616, 9.7364, 20.6605



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.



12.0030, 5.1014, 49.6424



21.2517, 9.0100, 88.8981



25.0323, 11.8183, 50.2522



9.3426, 9.3935, 11.9929



7.9705, 3.3950, 32.6281



0.3851, 0.1706, 1.2815

Inverse Universe

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



24.8757, 12.4323, 18.8559



44.4310, 22.2177, 33.1312



19.0434, 37.4744, 6.2296



9.7754, 9.6345, 11.2063



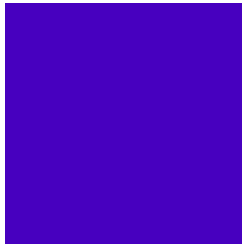
16.3879, 8.1863, 12.6023



0.6726, 0.3329, 0.6550

Previews

White Background



This preview shows how the XYZ color 12.0025, 5.1012, 49.6422 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

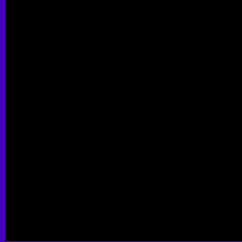
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.0025, 5.1012, 49.6422

Background



This preview shows how black text looks on a background with the XYZ color 12.0025, 5.1012, 49.6422.



This preview shows how white text looks on a background with the XYZ color 12.0025, 5.1012,

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

12.0025, 5.1012, 49.6422

Protanopia

6.1365, 5.3880, 23.2708

Deuteranopia

5.1044, 5.3491, 16.6830



Tritanopia

3.7938, 5.3296, 8.2259

Trichromacy



Original Color

12.0025, 5.1012, 49.6422

Protanomaly

7.1353, 4.1720, 31.4396

Deuteranomaly

6.1724, 3.9004, 26.0187

Tritanomaly

4.7932, 3.5297, 18.1980

Monochromacy



Original Color

12.0025, 5.1012, 49.6422

Achromatopsia

2.2962, 2.4158, 2.6308

Achromatomaly

4.0178, 2.4038, 11.5615

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0025, 5.1012, 49.6422 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(71, 0, 191)` looks like.

```
.text, #text, p{  
    color:rgb(71, 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(71, 0, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 0, 191) }
```

Border

The CSS property to change the border of an element to XYZ 12.0025, 5.1012, 49.6422 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(71, 0, 191) }
```


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

```
.border{ border-color:rgb(71, 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(71, 0, 191)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 0, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 0, 191);  
box-shadow:4px 4px 4px 4px rgb(71, 0, 191)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.0025, 5.1012, 49.6422 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 0, 191) }
```

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

```
.background{ background-color: rgb(71, 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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