

Converting Colors

XYZ(12.4755, 7.5040, 57.9437)

Have a look what the booklet for
XYZ(12.4755, 7.5040, 57.9437)
contains.

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Color

**XYZ(12.4630, 7.4876,
57.9151)**

Conversions

Conversions Part 1

Format	Color
Hex	003BCC
RGB	0, 59, 204
RGB Percent	0%, 23%, 80%
CMY	0.9998, 0.7686, 0.2000
CMYK	1.00, 0.71, 0.00, 0.20
HSL	223°, 100%, 40%
HSV	223°, 100%, 80%
XYZ	12.4630, 7.4876, 57.9151
YIQ	57.8890, -81.7090, 32.5870

Conversions

Conversions Part 2

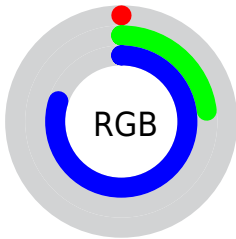
Format	Color
RYB	0, 46, 204
Decimal	15308
CIELab	32.89, 43.28, -77.75
CIELCh	33, 88.983, 299.101
Yxy	7.4876, 0.1601, 0.0962
Android (android.graphics.Color)	4278205388 (0xFF003BCC)
YUV	57.8890, 72.0327, -50.7687
Hunter-Lab	27.3635, 33.4137, -106.3335

Details

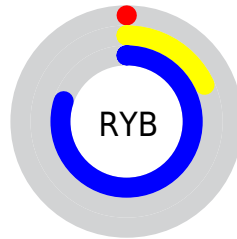
The XYZ color **12.4630, 7.4876, 57.9151** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark washed blue. A complement of this color would be **35.0338, 33.1008, 4.5437**, and the grayscale version is **3.9234, 4.1277, 4.4951**.

A 20% lighter version of the original color is **28.7872, 20.5602, 97.0590**, and **5.5616, 2.5707, 28.2200** is the 20% darker color. If you saturate the color by 10%, you get **12.4616, 7.4846, 57.9148**, and if you desaturate by 10%, it is **13.6123, 9.3443, 58.2132**.

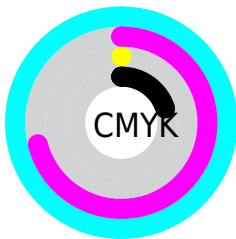
Distribution



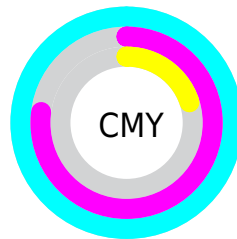
- Red (0%)
- Green (23%)
- Blue (80%)



- Red (0%)
- Yellow (18%)
- Blue (80%)



- Cyan (100%)
- Magenta (71%)
- Yellow (0%)
- Black (20%)



- Cyan (100%)
- Magenta (77%)
- Yellow (20%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4630, 7.4876, 57.9151 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 12.4630, 7.4876, 57.9151 by changing the saturation by 10% instead.

■ 12.4630, 7.4876,
57.9151

■ 12.4630, 7.4876,
57.9151

201.1548,
171.6559, 434.4589

■ 7.1343, 3.7689,
41.3261

■ 29.9452, 20.9476,
103.3128

■ 3.5933, 1.5451,
28.2524

■ 42.8294, 31.4577,
132.9586

■ 1.4747, 0.3202,
18.2753

■ 58.9627, 45.0003,
167.7937

■ 0.3085, 0.0000,
10.9763

■ 78.7106, 61.9600,
208.2368

■ 0.0000, 0.0000,
5.9370

■ 102.4384, 82.7209,
254.7063

■ 0.0000, 0.0000,
2.7386

■ 130.5115,

■ 0.0000, 0.0000,

107.6677, 307.6208

0.9628

163.2951,
137.1845, 367.3988

■ 0.0000, 0.0000,
0.0000

■ 12.4630, 7.4876,
57.9151

■ 12.4630, 7.4876,
57.9151

■ 12.4616, 7.4846,
57.9148

■ 13.6123, 9.3443,
58.2132

■ 15.2973, 11.8080,
58.5999

■ 17.6398, 14.9622,
59.0852

■ 20.7100, 18.8624,
59.6762

■ 24.5685, 23.5576,
60.3791

■ 29.2690, 29.0922,
61.1997

■ 34.8601, 35.5070,
62.1432

■ 41.3868, 42.8401,
63.2146

■ 48.8908, 51.1271,
64.4187

Harmonies

Analogous

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



6.9762, 7.4876, 70.7992



12.4630, 7.4876, 57.9151



17.9931, 7.4876, 29.8966

Triad

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



12.4630, 7.4876, 57.9151



12.8225, 7.4876, 0.0000



1.3729, 7.4876, 7.7542

Complementary

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



12.4630, 7.4876, 57.9151



35.0338, 33.1008, 4.5437

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.



1.8455, 7.4876, 0.7701



12.4630, 7.4876, 57.9151



7.2592, 7.4876, 0.0000

Square

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



12.4630, 7.4876, 57.9151



18.2570, 7.4876, 0.9392



3.5711, 7.4876, 0.0000



1.7886, 7.4876, 28.2583

Rectangle

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



12.4630, 7.4876, 57.9151



20.1465, 7.4876, 14.0737



3.5711, 7.4876, 0.0000



1.4276, 7.4876, 4.1805

Sweetspot

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



12.4635, 7.4877, 57.9153



57.3218, 58.3378, 102.8469



26.5371, 45.1636, 33.2308



11.3888, 11.4821, 21.8660



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.



12.4635, 7.4877, 57.9153



20.4797, 12.0794, 95.8599



11.8073, 4.8285, 57.4366



10.8615, 11.3635, 14.1913



7.9134, 4.8509, 36.4755



0.4742, 0.3822, 1.9037

Inverse Universe

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



25.6917, 13.1540, 5.3224



42.4664, 21.7506, 8.3881



36.7401, 50.9945, 7.9076



11.3435, 11.2661, 12.3434



16.2052, 8.2927, 3.5335



0.8693, 0.4411, 0.3577

Previews

White Background



This preview shows how the XYZ color 12.4630, 7.4876, 57.9151 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 12.4630, 7.4876, 57.9151 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

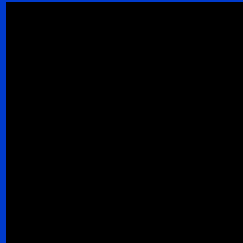
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.4630, 7.4876, 57.9151

Background



This preview shows how black text looks on a background with the XYZ color 12.4630, 7.4876, 57.9151.



This preview shows how white text looks on a background with the XYZ color 12.4630, 7.4876,

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

12.4630, 7.4876, 57.9151

Protanopia

8.6019, 7.4665, 32.8861

Deuteranopia

7.1717, 7.4586, 23.6159



Tritanopia

5.1733, 7.3938, 10.8273

Trichromacy



Original Color

12.4630, 7.4876, 57.9151

Protanomaly

9.7681, 7.3122, 40.9410

Deuteranomaly

8.5754, 7.1379, 33.7267

Tritanomaly

6.6812, 6.8076, 22.4346

Monochromacy



Original Color

12.4630, 7.4876, 57.9151

Achromatopsia

4.0217, 4.2311, 4.6077

Achromatomaly

5.1452, 4.5671, 15.6493

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4630, 7.4876, 57.9151 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, 59, 204)` looks like.

```
.text, #text, p{  
    color:rgb(0, 59, 204)  
}
```

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, 59, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 59, 204) }
```

Border

The CSS property to change the border of an element to XYZ 12.4630, 7.4876, 57.9151 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, 59, 204) }
```


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

```
.border{ border-color:rgb(0, 59, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 59, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 59, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 59, 204);  
box-shadow:4px 4px 4px 4px rgb(0, 59, 204)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.4630, 7.4876, 57.9151 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 59, 204) }
```

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

```
.background{ background-color: rgb(0, 59,  
204) }
```

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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