

Converting Colors

XYZ(12.6809, 12.0087, 45.3925)

Have a look what the booklet for
XYZ(12.6809, 12.0087, 45.3925)
contains.

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Color

**XYZ(12.7082, 12.0716,
45.3763)**

Conversions

Conversions Part 1

Format	Color
Hex	0062B5
RGB	0, 98, 181
RGB Percent	0%, 38%, 71%
CMY	0.9999, 0.6157, 0.2902
CMYK	1.00, 0.46, 0.00, 0.29
HSL	208°, 100%, 35%
HSV	208°, 100%, 71%
XYZ	12.7082, 12.0716, 45.3763
YIQ	78.1600, -85.0510, 5.0370

Conversions

Conversions Part 2

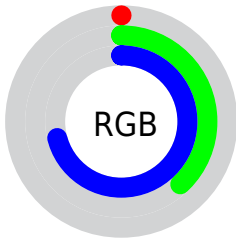
Format	Color
RYB	0, 64, 181
Decimal	25269
CIELab	41.33, 8.56, -50.55
CIELCh	41, 51.265, 279.615
Yxy	12.0716, 0.1811, 0.1721
Android (android.graphics.Color)	4278215349 (0xFF0062B5)
YUV	78.1600, 50.7001, -68.5463
Hunter-Lab	34.7442, 4.4866, -53.1124

Details

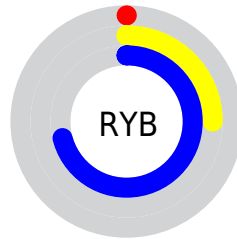
The XYZ color **12.7082, 12.0716, 45.3763** is a dark color, and the websafe version is hex **0066CC**. A complement of this color would be **22.1524, 16.0160, 1.9249**, and the grayscale version is **7.1927, 7.5673, 8.2407**.

A 20% lighter version of the original color is **30.2896, 29.5695, 84.2318**, and **5.1039, 4.0785, 20.5969** is the 20% darker color. If you saturate the color by 10%, you get **12.7067, 12.0686, 45.3761**, and if you desaturate by 10%, it is **13.7778, 13.8366, 45.6609**.

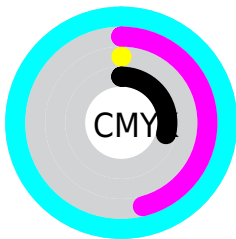
Distribution



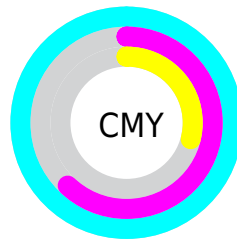
- Red (0%)
- Green (38%)
- Blue (71%)



- Red (0%)
- Yellow (25%)
- Blue (71%)



- Cyan (100%)
- Magenta (46%)
- Yellow (0%)
- Black (29%)



- Cyan (100%)
- Magenta (62%)
- Yellow (29%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7082, 12.0716, 45.3763 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 12.7082, 12.0716, 45.3763 by changing the saturation by 10% instead.

■ 12.7082, 12.0716,
45.3763

■ 12.7082, 12.0716,
45.3763

202.7146,
204.8787, 384.4999

■ 7.3035, 6.7925,
31.4088

■ 30.3843, 29.6254,
84.6092

■ 3.7007, 3.3326,
20.6493

■ 43.3865, 42.6689,
110.7118

■ 1.5342, 1.3078,
12.6791

■ 59.6519, 59.0693,
141.6964

■ 0.3489, 0.1472,
7.0799

■ 79.5459, 79.2110,
177.9817

■ 0.0000, 0.0000,
3.4329

■ 103.4338,
103.4784, 219.9861

■ 0.0000, 0.0000,
1.3197

■ 131.6810,

■ 0.0000, 0.0000,

132.2559, 268.1283

0.0778

164.6528,
165.9279, 322.8267

■ 0.0000, 0.0000,
0.0000

■ 12.7082, 12.0716,
45.3763

■ 12.7082, 12.0716,
45.3763

■ 12.7067, 12.0686,
45.3761

■ 13.7778, 13.8366,
45.6609

■ 15.1620, 15.8869,
45.9837

■ 16.9512, 18.2723,
46.3498

■ 19.1899, 21.0191,
46.7620

■ 21.9159, 24.1499,
47.2226

■ 25.1628, 27.6849,
47.7338

■ 28.9611, 31.6427,
48.2976

■ 33.3385, 36.0405,
48.9157

■ 38.3210, 40.8943,
49.5900

Harmonies

Analogous

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



9.1617, 12.0716, 43.1445



12.7082, 12.0716, 45.3763



16.6558, 12.0716, 36.0312

Triad

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



12.7082, 12.0716, 45.3763



17.9007, 12.0716, 3.9408



5.9973, 12.0716, 7.2296

Complementary

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



12.7082, 12.0716, 45.3763



22.1524, 16.0160, 1.9249

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.



7.4962, 12.0716, 2.8456



12.7082, 12.0716, 45.3763



14.1452, 12.0716, 1.7832

Square

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



12.7082, 12.0716, 45.3763



20.0526, 12.0716, 10.0155



10.3218, 12.0716, 1.5335



5.7750, 12.0716, 16.8642

Rectangle

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



12.7082, 12.0716, 45.3763



18.8020, 12.0716, 26.4394



10.3218, 12.0716, 1.5335



6.3503, 12.0716, 5.2759

Sweetspot

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



12.7087, 12.0719, 45.3766



51.4886, 56.2824, 86.4445



18.0273, 33.6494, 13.4222



10.4972, 11.5128, 18.5912



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



12.7087, 12.0719, 45.3766



22.5270, 21.1538, 81.1904



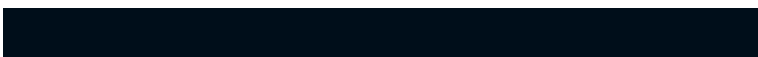
8.4396, 3.5337, 43.9536



8.4103, 8.9668, 10.7938



8.8297, 8.4598, 31.3045



0.3353, 0.3812, 1.0041

Inverse Universe

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



21.2612, 10.7065, 12.5014



37.9598, 19.1265, 21.7697



33.7998, 39.3108, 5.8073



8.6823, 8.5796, 9.8254



14.6915, 7.3942, 8.8013



0.4913, 0.2443, 0.4298

Previews

White Background



This preview shows how the XYZ color 12.7082, 12.0716, 45.3763 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 × Fail

Black Background



This preview shows how the XYZ color 12.7082, 12.0716, 45.3763 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

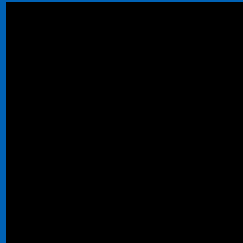
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7082, 12.0716, 45.3763

Background



This preview shows how black text looks on a background with the XYZ color 12.7082, 12.0716, 45.3763.



This preview shows how white text looks on a background with the XYZ color 12.7082, 12.0716,

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

12.7082, 12.0716, 45.3763

Protanopia

13.6589, 12.1995, 43.2298

Deuteranopia

12.1997, 12.0188, 42.2343



Tritanopia

8.4571, 11.9629, 18.0830

Trichromacy



Original Color

12.7082, 12.0716, 45.3763

Protanomaly

12.9463, 11.9552, 43.7447

Deuteranomaly

12.3977, 12.0980, 43.2767

Tritanomaly

9.6105, 11.7647, 26.1904

Monochromacy



Original Color

12.7082, 12.0716, 45.3763

Achromatopsia

7.2414, 7.6185, 8.2966

Achromatomaly

7.6584, 8.4129, 17.4399

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7082, 12.0716, 45.3763 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, 98, 181)` looks like.

```
.text, #text, p{  
    color:rgb(0, 98, 181)  
}
```

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, 98, 181) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 98, 181) }
```

Border

The CSS property to change the border of an element to XYZ 12.7082, 12.0716, 45.3763 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, 98, 181) }
```


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

```
.border{ border-color:rgb(0, 98, 181) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 98, 181)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 98, 181); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 98, 181);  
box-shadow:4px 4px 4px 4px rgb(0, 98, 181)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.7082, 12.0716, 45.3763 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 98, 181) }
```

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

```
.background{ background-color: rgb(0, 98,  
181) }
```

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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