

Converting Colors

XYZ(10.6937, 11.2510, 42.5502)

Have a look what the booklet for
XYZ(10.6937, 11.2510, 42.5502)
contains.

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Color

**XYZ(12.2983, 12.0583,
42.7536)**

Conversions

Conversions Part 1

Format	Color
Hex	0063B0
RGB	0, 99, 176
RGB Percent	0%, 39%, 69%
CMY	0.9999, 0.6118, 0.3098
CMYK	1.00, 0.44, 0.00, 0.31
HSL	206°, 100%, 35%
HSV	206°, 100%, 69%
XYZ	12.2983, 12.0583, 42.7536
YIQ	78.1770, -83.7210, 2.9590

Conversions

Conversions Part 2

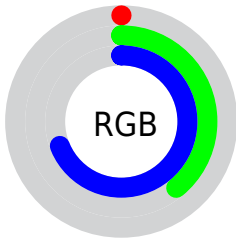
Format	Color
RYB	0, 63, 176
Decimal	25520
CIELab	41.31, 5.87, -47.65
CIELCh	41, 48.007, 277.029
Yxy	12.0583, 0.1833, 0.1797
Android (android.graphics.Color)	4278215600 (0xFF0063B0)
YUV	78.1770, 48.2267, -68.5612
Hunter-Lab	34.7251, 2.4491, -48.6905

Details

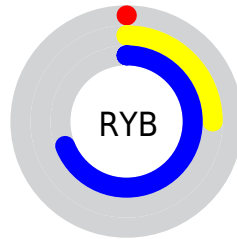
The XYZ color **12.2983, 12.0583, 42.7536** is a dark color, and the websafe version is hex **0066CC**. A complement of this color would be **20.5607, 14.5421, 1.7241**, and the grayscale version is **7.1999, 7.5748, 8.2490**.

A 20% lighter version of the original color is **29.6273, 29.5452, 80.4852**, and **4.8483, 3.9763, 19.2509** is the 20% darker color. If you saturate the color by 10%, you get **12.2972, 12.0560, 42.7535**, and if you desaturate by 10%, it is **13.3058, 13.7131, 43.0202**.

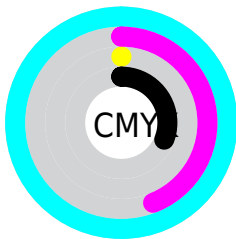
Distribution



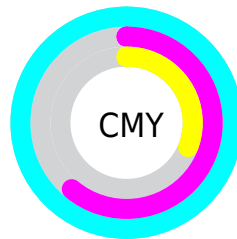
- Red (0%)
- Green (39%)
- Blue (69%)



- Red (0%)
- Yellow (25%)
- Blue (69%)



- Cyan (100%)
- Magenta (44%)
- Yellow (0%)
- Black (31%)



- Cyan (100%)
- Magenta (61%)
- Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2983, 12.0583, 42.7536 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 12.2983, 12.0583, 42.7536 by changing the saturation by 10% instead.

■ 12.2983, 12.0583,
42.7536

■ 12.2983, 12.0583,
42.7536

■ 200.1001,
204.7909, 373.4889

■ 7.0208, 6.7834,
29.3619

■ 29.6494, 29.6012,
80.6213

■ 3.5216, 3.3270,
19.1068

■ 42.4537, 42.6381,
105.9343

■ 1.4352, 1.3047,
11.5699

■ 58.4977, 59.0310,
136.0581

■ 0.2811, 0.1449,
6.3326

■ 78.1468, 79.1644,
171.4114

■ 0.0000, 0.0000,
2.9763

■ 101.7661,
103.4227, 212.4125

■ 0.0000, 0.0000,
1.0825

■ 129.7212,

■ 0.0000, 0.0000,

132.1903, 259.4801

0.0000

162.3774,
165.8515, 313.0327

■ 12.2983, 12.0583,
42.7536

■ 12.2983, 12.0583,
42.7536

■ 12.2972, 12.0560,
42.7535

■ 13.3058, 13.7131,
43.0202

■ 14.6004, 15.6218,
43.3204

■ 16.2682, 17.8317,
43.6590

■ 18.3503, 20.3665,
44.0385

■ 20.8818, 23.2467,
44.4611

■ 23.8938, 26.4908,
44.9285

■ 27.4144, 30.1155,
45.4426

■ 31.4692, 34.1365,
46.0050

■ 36.0823, 38.5682,
46.6173

Harmonies

Analogous

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



9.0460, 12.0583, 39.8060



12.2983, 12.0583, 42.7536



15.9745, 12.0583, 35.0994

Triad

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



12.2983, 12.0583, 42.7536



17.6661, 12.0583, 4.6479



6.3440, 12.0583, 6.9874

Complementary

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



12.2983, 12.0583, 42.7536



20.5607, 14.5421, 1.7241

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.



7.8896, 12.0583, 3.0113



12.2983, 12.0583, 42.7536



14.2717, 12.0583, 2.2164

Square

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



12.2983, 12.0583, 42.7536



19.4544, 12.0583, 10.9242



10.6627, 12.0583, 1.8227



6.0261, 12.0583, 15.6131

Rectangle

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



12.2983, 12.0583, 42.7536



18.0306, 12.0583, 26.5408



10.6627, 12.0583, 1.8227



6.7195, 12.0583, 5.2257

Sweetspot

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



12.2988, 12.0586, 42.7539



49.3497, 54.2447, 82.3646



16.8402, 31.5768, 12.0967



10.1059, 11.1550, 17.7648



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



12.2988, 12.0586, 42.7539



22.0732, 21.4060, 77.4637



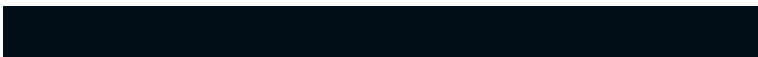
7.9655, 3.3920, 41.3095



8.4252, 8.9965, 10.7988



9.0817, 8.9637, 31.3885



0.3426, 0.3957, 1.0066

Inverse Universe

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



20.1571, 10.1317, 12.6978



36.4405, 18.3274, 22.4128



31.2285, 35.8776, 5.2800



8.6898, 8.5826, 9.8649



14.8187, 7.4450, 9.4710



0.4949, 0.2457, 0.4491

Previews

White Background



This preview shows how the XYZ color 12.2983, 12.0583, 42.7536 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 12.2983, 12.0583, 42.7536 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

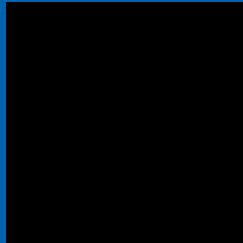
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2983, 12.0583, 42.7536

Background



This preview shows how black text looks on a background with the XYZ color 12.2983, 12.0583, 42.7536.



This preview shows how white text looks on a background with the XYZ color 12.2983, 12.0583,

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

12.2983, 12.0583, 42.7536

Protanopia

13.5252, 12.1871, 40.6692

Deuteranopia

12.2983, 12.0583, 42.7536



Tritanopia

8.5149, 11.9861, 18.3878

Trichromacy



Original Color

12.2983, 12.0583, 42.7536

Protanomaly

12.5624, 11.8142, 41.1534

Deuteranomaly

12.2983, 12.0583, 42.7536

Tritanomaly

9.6390, 11.9381, 25.8410

Monochromacy



Original Color

12.2983, 12.0583, 42.7536

Achromatopsia

7.2414, 7.6185, 8.2966

Achromatomaly

7.6804, 8.5486, 17.1648

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2983, 12.0583, 42.7536 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, 99, 176)` looks like.

```
.text, #text, p{  
    color:rgb(0, 99, 176)  
}
```

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, 99, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 99, 176) }
```

Border

The CSS property to change the border of an element to XYZ 12.2983, 12.0583, 42.7536 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, 99, 176) }
```


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

```
.border{ border-color:rgb(0, 99, 176) }
```

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

Here you see how a box with a 4 pixel rgb(0, 99, 176) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 99, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 99, 176);  
box-shadow:4px 4px 4px 4px rgb(0, 99, 176)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.2983, 12.0583, 42.7536 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 99, 176) }
```

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

```
.background{ background-color: rgb(0, 99,  
176) }
```

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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