

Converting Colors

XYZ(12.1597, 10.5437, 46.5221)

Have a look what the booklet for
XYZ(12.1597, 10.5437, 46.5221)
contains.

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Color

**XYZ(12.2241, 10.6054,
46.7502)**

Conversions

Conversions Part 1

Format	Color
Hex	0059B8
RGB	0, 89, 184
RGB Percent	0%, 35%, 72%
CMY	0.9999, 0.6510, 0.2784
CMYK	1.00, 0.52, 0.00, 0.28
HSL	211°, 100%, 36%
HSV	211°, 100%, 72%
XYZ	12.2241, 10.6054, 46.7502
YIQ	73.2190, -83.5390, 10.6770

Conversions

Conversions Part 2

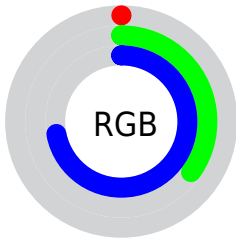
Format	Color
RYB	0, 60, 184
Decimal	22968
CIELab	38.91, 15.71, -56.21
CIELCh	39, 58.368, 285.617
Yxy	10.6054, 0.1757, 0.1524
Android (android.graphics.Color)	4278213048 (0xFF0059B8)
YUV	73.2190, 54.6150, -64.2131
Hunter-Lab	32.5659, 10.0122, -62.3179

Details

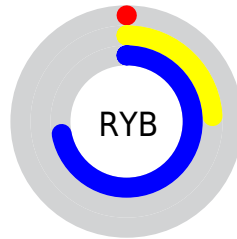
The XYZ color **12.2241, 10.6054, 46.7502** is a dark color, and the websafe version is hex **0066CC**. A complement of this color would be **23.8632, 18.3819, 2.2914**, and the grayscale version is **6.2912, 6.6188, 7.2079**.

A 20% lighter version of the original color is **29.4799, 26.8550, 86.8489**, and **4.9677, 3.4885, 21.5306** is the 20% darker color. If you saturate the color by 10%, you get **12.2225, 10.6022, 46.7499**, and if you desaturate by 10%, it is **13.3243, 12.4231, 47.0433**.

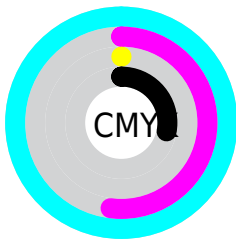
Distribution



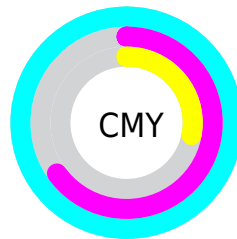
- Red (0%)
- Green (35%)
- Blue (72%)



- Red (0%)
- Yellow (24%)
- Blue (72%)



- Cyan (100%)
- Magenta (52%)
- Yellow (0%)
- Black (28%)



- Cyan (100%)
- Magenta (65%)
- Yellow (28%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2241, 10.6054, 46.7502 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 12.2241, 10.6054, 46.7502 by changing the saturation by 10% instead.

■ 12.2241, 10.6054,
46.7502

■ 12.2241, 10.6054,
46.7502

199.6231,
194.9400, 390.1814

■ 6.9698, 5.8022,
32.4853

■ 29.5159, 26.9281,
86.6867

■ 3.4894, 2.7252,
21.4646

■ 42.2841, 39.2164,
113.1954

■ 1.4175, 0.9900,
13.2695

■ 58.2877, 54.7685,
144.6224

■ 0.2687, 0.0000,
7.4815

■ 77.8920, 73.9688,
181.3863

■ 0.0000, 0.0000,
3.6820

■ 101.4623, 97.2017,
223.9056

■ 0.0000, 0.0000,
1.4526

■ 129.3640,

■ 0.0000, 0.0000,

124.8516, 272.5988

0.1822

161.9625,
157.3029, 327.8846

■ 0.0000, 0.0000,
0.0000

■ 12.2241, 10.6054,
46.7502

■ 12.2241, 10.6054,
46.7502

■ 12.2225, 10.6022,
46.7499

■ 13.3243, 12.4231,
47.0433

■ 14.7719, 14.5770,
47.3828

■ 16.6608, 17.1205,
47.7742

■ 19.0384, 20.0830,
48.2207

■ 21.9454, 23.4903,
48.7251

■ 25.4176, 27.3653,
49.2901

■ 29.4876, 31.7293,
49.9179

■ 34.1852, 36.6019,
50.6108

■ 39.5383, 42.0013,
51.3709

Harmonies

Analogous

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



8.3387, 10.6054, 47.0533



12.2241, 10.6054, 46.7502



16.4048, 10.6054, 33.8558

Triad

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



12.2241, 10.6054, 46.7502



16.2481, 10.6054, 2.0210



4.4443, 10.6054, 7.0130

Complementary

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



12.2241, 10.6054, 46.7502



23.8632, 18.3819, 2.2914

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.



5.6343, 10.6054, 2.1245



12.2241, 10.6054, 46.7502



12.0485, 10.6054, 0.7371

Square

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



12.2241, 10.6054, 46.7502



19.1038, 10.6054, 6.6991



8.2027, 10.6054, 0.7599



4.4684, 10.6054, 18.3047

Rectangle

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



12.2241, 10.6054, 46.7502



18.5129, 10.6054, 22.8000



8.2027, 10.6054, 0.7599



4.6989, 10.6054, 4.7838

Sweetspot

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



12.2246, 10.6057, 46.7505



53.0407, 57.0818, 90.4270



19.0737, 35.0545, 15.8905



10.7452, 11.5728, 19.3890



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988

Same Dimension

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



12.2246, 10.6057, 46.7505



21.9193, 18.7448, 84.6674



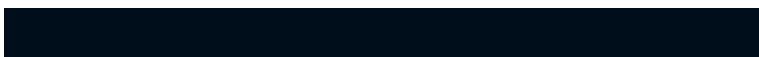
8.6527, 3.4618, 45.5599



8.8699, 9.4170, 11.4296



8.4939, 7.4474, 32.2429



0.3614, 0.3866, 1.1573

Inverse Universe

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



21.5709, 10.9125, 10.4205



38.9809, 19.7318, 18.2514



36.9081, 44.4717, 6.6397



9.1807, 9.0826, 10.2988



14.9010, 7.5342, 7.3654



0.5566, 0.2781, 0.4245

Previews

White Background



This preview shows how the XYZ color 12.2241, 10.6054, 46.7502 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 12.2241, 10.6054, 46.7502 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

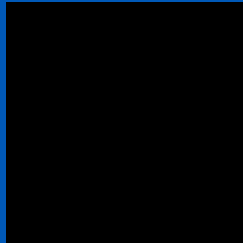
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2241, 10.6054, 46.7502

Background



This preview shows how black text looks on a background with the XYZ color 12.2241, 10.6054, 46.7502.



This preview shows how white text looks on a background with the XYZ color 12.2241, 10.6054,

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

12.2241, 10.6054, 46.7502

Protanopia

12.4890, 10.6314, 46.1936

Deuteranopia

10.5243, 10.6140, 35.6764



Tritanopia

7.4581, 10.5855, 15.8375

Trichromacy



Original Color

12.2241, 10.6054, 46.7502

Protanomaly

12.2681, 10.5175, 46.1832

Deuteranomaly

11.0828, 10.5566, 39.4837

Tritanomaly

8.7186, 10.3270, 24.8263

Monochromacy



Original Color

12.2241, 10.6054, 46.7502

Achromatopsia

6.3328, 6.6626, 7.2556

Achromatomaly

6.9033, 7.3651, 16.6805

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2241, 10.6054, 46.7502 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, 89, 184)` looks like.

```
.text, #text, p{  
    color:rgb(0, 89, 184)  
}
```

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, 89, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 89, 184) }
```

Border

The CSS property to change the border of an element to XYZ 12.2241, 10.6054, 46.7502 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, 89, 184) }
```


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

```
.border{ border-color:rgb(0, 89, 184) }
```

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

Here you see how a box with a 4 pixel rgb(0, 89, 184) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 89, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 89, 184);  
box-shadow:4px 4px 4px 4px rgb(0, 89, 184)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.2241, 10.6054, 46.7502 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 89, 184) }
```

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

```
.background{ background-color: rgb(0, 89,  
184) }
```

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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