

Converting Colors

XYZ(12.1709, 12.2113, 41.4539)

Have a look what the booklet for
XYZ(12.1709, 12.2113, 41.4539)
contains.

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Color

**XYZ(12.1000, 12.1315,
41.2390)**

Conversions

Conversions Part 1

Format	Color
Hex	0064AD
RGB	0, 100, 173
RGB Percent	0%, 39%, 68%
CMY	0.9999, 0.6078, 0.3216
CMYK	1.00, 0.42, 0.00, 0.32
HSL	205°, 100%, 34%
HSV	205°, 100%, 68%
XYZ	12.1000, 12.1315, 41.2390
YIQ	78.4220, -83.0330, 1.5030

Conversions

Conversions Part 2

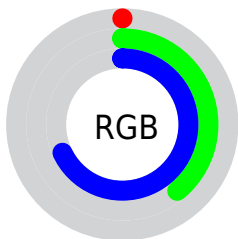
Format	Color
RYB	0, 63, 173
Decimal	25773
CIELab	41.42, 4.01, -45.70
CIELCh	41, 45.872, 275.014
Yxy	12.1315, 0.1848, 0.1853
Android (android.graphics.Color)	4278215853 (0xFF0064AD)
YUV	78.4220, 46.6270, -68.7761
Hunter-Lab	34.8303, 1.0576, -45.8180

Details

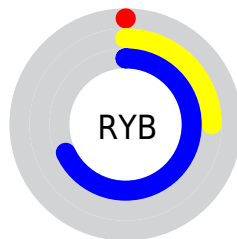
The XYZ color **12.1000, 12.1315, 41.2390** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **19.6184, 13.6535, 1.6023**, and the grayscale version is **7.2490, 7.6265, 8.3052**.

A 20% lighter version of the original color is **29.2657, 29.6435, 78.3080**, and **4.7093, 3.9944, 18.2921** is the 20% darker color. If you saturate the color by 10%, you get **12.0989, 12.1291, 41.2389**, and if you desaturate by 10%, it is **13.0693, 13.7179, 41.4944**.

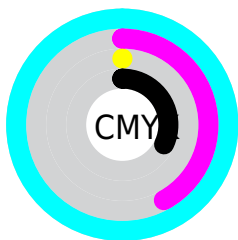
Distribution



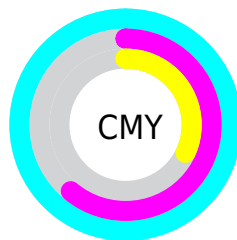
- Red (0%)
- Green (39%)
- Blue (68%)



- Red (0%)
- Yellow (25%)
- Blue (68%)



- Cyan (100%)
- Magenta (42%)
- Yellow (0%)
- Black (32%)



- Cyan (100%)
- Magenta (61%)
- Yellow (32%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.1000, 12.1315, 41.2390 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 12.1000, 12.1315, 41.2390 by changing the saturation by 10% instead.

■ 12.1000, 12.1315,
41.2390

■ 12.1000, 12.1315,
41.2390

198.8226,
205.2739, 367.0247

■ 6.8845, 6.8333,
28.1848

■ 29.2924, 29.7344,
78.3042

■ 3.4357, 3.3581,
18.2247

■ 42.0000, 42.8078,
103.1522

■ 1.3881, 1.3214,
10.9404

■ 57.9357, 59.2419,
132.7686

■ 0.2477, 0.1577,
5.9131

■ 77.4648, 79.4208,
167.5719

■ 0.0000, 0.0000,
2.7244

■ 100.9526,
103.7291, 207.9806

■ 0.0000, 0.0000,
0.9557

■ 128.7647,

■ 0.0000, 0.0000,

132.5511, 254.4133

0.0000

161.2662,
166.2713, 307.2885

■ 12.1000, 12.1315,
41.2390

■ 12.1000, 12.1315,
41.2390

■ 12.0989, 12.1291,
41.2389

■ 13.0693, 13.7179,
41.4944

■ 14.3092, 15.5393,
41.7806

■ 15.9034, 17.6411,
42.1023

■ 17.8910, 20.0457,
42.4617

■ 20.3055, 22.7725,
42.8607

■ 23.1766, 25.8387,
43.3012

■ 26.5308, 29.2602,
43.7849

■ 30.3928, 33.0516,
44.3131

■ 34.7853, 37.2263,
44.8874

Harmonies

Analogous

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



9.0292, 12.1315, 37.8177



12.1000, 12.1315, 41.2390



15.6139, 12.1315, 34.6740

Triad

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



12.1000, 12.1315, 41.2390



17.6184, 12.1315, 5.2270



6.6413, 12.1315, 6.8726

Complementary

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



12.1000, 12.1315, 41.2390



19.6184, 13.6535, 1.6023

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.



8.2296, 12.1315, 3.1563



12.1000, 12.1315, 41.2390



14.4561, 12.1315, 2.5779

Square

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



12.1000, 12.1315, 41.2390



19.1684, 12.1315, 11.6687



10.9794, 12.1315, 2.0622



6.2508, 12.1315, 14.8795

Rectangle

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



12.1000, 12.1315, 41.2390



17.6207, 12.1315, 26.7807



10.9794, 12.1315, 2.0622



7.0355, 12.1315, 5.2309

Sweetspot

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



12.1005, 12.1319, 41.2393



47.1664, 52.0543, 78.3673



16.1171, 30.3567, 11.1583



9.7000, 10.7567, 16.9527



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



12.1005, 12.1319, 41.2393



21.4509, 21.2877, 73.7841



7.7064, 3.3435, 39.7746



7.9488, 8.4970, 10.1738



8.9458, 9.0255, 30.3151



0.3015, 0.3563, 0.8609

Inverse Universe

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



19.5343, 9.8051, 12.9198



34.8734, 17.5148, 22.5544



29.5610, 33.5386, 4.9165



8.1920, 8.0900, 9.3217



14.3791, 7.2142, 9.6416



0.4266, 0.2113, 0.4081

Previews

White Background



This preview shows how the XYZ color 12.1000, 12.1315, 41.2390 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 12.1000, 12.1315, 41.2390 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 12.1000, 12.1315, 41.2390

Background



This preview shows how black text looks on a background with the XYZ color 12.1000, 12.1315, 41.2390.



This preview shows how white text looks on a background with the XYZ color 12.1000, 12.1315,

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

12.1000, 12.1315, 41.2390

Protanopia

13.3401, 12.1354, 38.6851

Deuteranopia

12.4836, 12.1877, 41.2297



Tritanopia

8.6210, 12.1982, 18.4231

Trichromacy



Original Color

12.1000, 12.1315, 41.2390

Protanomaly

12.4448, 11.9231, 39.6757

Deuteranomaly

12.2541, 12.0694, 41.2189

Tritanomaly

9.6694, 12.1142, 25.4956

Monochromacy



Original Color

12.1000, 12.1315, 41.2390

Achromatopsia

7.2414, 7.6185, 8.2966

Achromatomaly

7.6238, 8.5259, 16.8666

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.1000, 12.1315, 41.2390 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, 100, 173)` looks like.

```
.text, #text, p{  
    color:rgb(0, 100, 173)  
}
```

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, 100, 173) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 100, 173) }
```

Border

The CSS property to change the border of an element to XYZ 12.1000, 12.1315, 41.2390 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, 100, 173) }
```


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

```
.border{ border-color:rgb(0, 100, 173) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 100, 173)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 100, 173); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 100, 173);  
box-shadow:4px 4px 4px 4px rgb(0, 100,  
173) }
```

Background

The CSS property to change the background color of an element to XYZ 12.1000, 12.1315, 41.2390 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 100, 173) }
```

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

```
.background{ background-color: rgb(0, 100,  
173) }
```

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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