

Converting Colors

XYZ(12.0935, 13.7745, 29.6882)

Have a look what the booklet for
XYZ(12.0935, 13.7745, 29.6882)
contains.

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Color

**XYZ(12.0505, 13.7220,
29.6172)**

Conversions

Conversions Part 1

Format	Color
Hex	326D93
RGB	50, 109, 147
RGB Percent	20%, 43%, 58%
CMY	0.8039, 0.5725, 0.4235
CMYK	0.66, 0.26, 0.00, 0.42
HSL	204°, 49%, 39%
HSV	204°, 66%, 58%
XYZ	12.0505, 13.7220, 29.6172
YIQ	95.6910, -47.3620, -0.6900

Conversions

Conversions Part 2

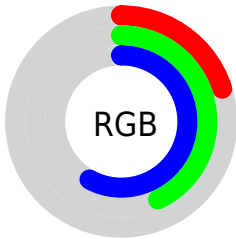
Format	Color
RYB	50, 87, 147
Decimal	3304851
CIELab	43.83, -6.71, -26.43
CIElCh	44, 27.267, 255.753
Yxy	13.7220, 0.2176, 0.2477
Android (android.graphics.Color)	4281494931 (0xFF326D93)
YUV	95.6910, 25.2953, -40.0710
Hunter-Lab	37.0432, -6.7579, -21.4739




Details

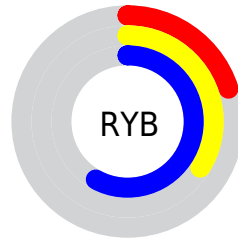
The XYZ color **12.0505, 13.7220, 29.6172** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **16.0986, 13.4136, 4.7588**, and the grayscale version is **10.9930, 11.5655, 12.5948**.




A 20% lighter version of the original color is **29.1768, 32.4845, 59.9907**, and **3.8339, 4.2898, 11.6923** is the 20% darker color. If you saturate the color by 10%, you get **10.8445, 12.2182, 29.3908**, and if you desaturate by 10%, it is **13.5305, 15.4273, 29.8686**.

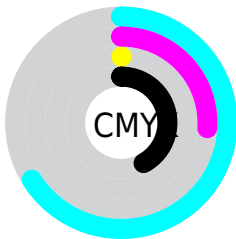
Distribution







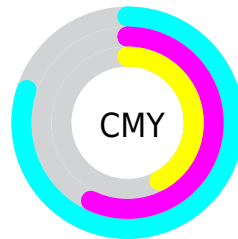
-  Red (20%)
-  Green (43%)
-  Blue (58%)






-  Red (20%)
-  Yellow (34%)
-  Blue (58%)



-  Cyan (66%)
-  Magenta (26%)
-  Yellow (0%)
-  Black (42%)



-  Cyan (80%)
-  Magenta (57%)
-  Yellow (42%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0505, 13.7220, 29.6172 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 12.0505, 13.7220, 29.6172 by changing the saturation by 10% instead.

■ 12.0505, 13.7220,
29.6172

■ 12.0505, 13.7220,
29.6172

■ 198.5024,
215.4945, 314.2676

■ 6.8505, 7.9276,
19.2986

■ 29.2031, 32.5949,
60.1101

■ 3.4143, 4.0486,
11.7073

■ 41.8864, 46.4422,
81.1215

■ 1.3764, 1.7008,
6.4246

■ 57.7950, 63.7426,
106.5343

■ 0.2394, 0.4242,
3.0320

■ 77.2940, 84.8805,
136.7670

■ 0.0000, 0.0000,
1.1110

■ 100.7489,
110.2402, 172.2381

■ 0.0000, 0.0000,
0.0000

■ 128.5250,

140.2061, 213.3663

160.9877,
175.1628, 260.5699

■ 12.0505, 13.7220,
29.6172

■ 12.0505, 13.7220,
29.6172

■ 10.8445, 12.2182,
29.3908

■ 13.5305, 15.4273,
29.8686

■ 9.8870, 10.9008,
29.1870

■ 15.3039, 17.3446,
30.1452

■ 9.1438, 9.7514,
29.0043

■ 17.3899, 19.4849,
30.4484

■ 8.8732, 9.3200,
28.9353

■ 19.8056, 21.8581,
30.7792

■ 22.5667, 24.4735,
31.1385

■ 25.6878, 27.3395,
31.5271

■ 29.1828, 30.4641,
31.9461

■ 33.0647, 33.8552,
32.3960

■ 37.3457, 37.5200,
32.8777

Harmonies

Analogous

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



10.3636, 13.7220, 25.1361



12.0505, 13.7220, 29.6172



14.1980, 13.7220, 29.4903

Triad

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



12.0505, 13.7220, 29.6172



17.4427, 13.7220, 11.9498



10.2978, 13.7220, 8.1051

Complementary

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



12.0505, 13.7220, 29.6172



16.0986, 13.4136, 4.7588

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.



11.9512, 13.7220, 6.1931



12.0505, 13.7220, 29.6172



16.1470, 13.7220, 7.9596

Square

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



12.0505, 13.7220, 29.6172



17.4769, 13.7220, 18.0505



14.0872, 13.7220, 6.1484



9.4296, 13.7220, 12.2107

Rectangle

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



12.0505, 13.7220, 29.6172



15.6118, 13.7220, 26.7657



14.0872, 13.7220, 6.1484



10.7715, 13.7220, 7.2411

Sweetspot

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



12.0510, 13.7225, 29.6175



38.1458, 41.6997, 55.4729



13.4774, 22.2370, 12.6388



8.4222, 9.2478, 12.6259



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.0510, 13.7225, 29.6175



18.5723, 20.7457, 52.4600



8.2681, 6.1568, 28.3566



5.7753, 6.1846, 7.3591



7.7171, 8.1289, 25.0933



0.1232, 0.1570, 0.3167

Inverse Universe

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



15.9340, 9.5889, 15.4795



26.4820, 14.3050, 23.2166



21.3683, 23.9530, 6.5154



5.9400, 5.8711, 6.7903



12.0223, 6.0140, 8.8643



0.1617, 0.0794, 0.1850

Previews

White Background



This preview shows how the XYZ color 12.0505, 13.7220, 29.6172 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 12.0505, 13.7220, 29.6172 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

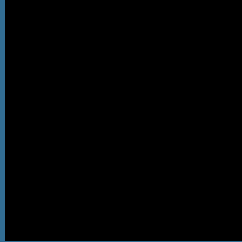
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.0505, 13.7220, 29.6172

Background



This preview shows how black text looks on a background with the XYZ color 12.0505, 13.7220, 29.6172.

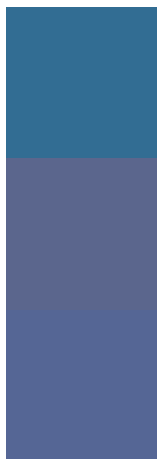


This preview shows how white text looks on a background with the XYZ color 12.0505, 13.7220,

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

12.0505, 13.7220, 29.6172

Protanopia

13.8735, 13.6500, 27.1028

Deuteranopia

13.9225, 13.6040, 30.3258



Tritanopia

10.2078, 13.6154, 20.8289

Trichromacy



Original Color

12.0505, 13.7220, 29.6172

Protanomaly

12.9900, 13.6228, 27.9314

Deuteranomaly

13.0694, 13.6190, 29.9569

Tritanomaly

10.8735, 13.7257, 23.9060

Monochromacy



Original Color

12.0505, 13.7220, 29.6172

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

10.9726, 12.2074, 17.9976

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0505, 13.7220, 29.6172 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(50, 109, 147)` looks like.

```
.text, #text, p{  
    color:rgb(50, 109, 147)  
}
```

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(50, 109, 147) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 109, 147) }
```

Border

The CSS property to change the border of an element to XYZ 12.0505, 13.7220, 29.6172 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(50, 109, 147) }
```


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

```
.border{ border-color:rgb(50, 109, 147) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 109, 147)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(50, 109, 147); -webkit-box-shadow:4px 4px 4px 4px rgb(50, 109, 147); box-shadow:4px 4px 4px 4px rgb(50, 109, 147) }
```

Background

The CSS property to change the background color of an element to XYZ 12.0505, 13.7220, 29.6172 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 109, 147) }
```

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

```
.background{ background-color: rgb(50, 109,  
147) }
```

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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