

Converting Colors

XYZ(12.2783, 12.2958, 28.1432)

Have a look what the booklet for
XYZ(12.2783, 12.2958, 28.1432)
contains.

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Color

**XYZ(12.2258, 12.2048,
28.0970)**

Conversions

Conversions Part 1

Format	Color
Hex	4A6290
RGB	74, 98, 144
RGB Percent	29%, 38%, 56%
CMY	0.7098, 0.6157, 0.4353
CMYK	0.49, 0.32, 0.00, 0.44
HSL	219°, 32%, 43%
HSV	219°, 49%, 56%
XYZ	12.2258, 12.2048, 28.0970
YIQ	96.0680, -29.0700, 9.2180

Conversions

Conversions Part 2

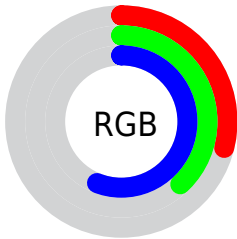
Format	Color
RYB	74, 92, 144
Decimal	4874896
CIELab	41.54, 4.38, -28.12
CIElCh	42, 28.462, 278.852
Yxy	12.2048, 0.2328, 0.2324
Android (android.graphics.Color)	4283064976 (0xFF4A6290)
YUV	96.0680, 23.6305, -19.3536
Hunter-Lab	34.9354, 1.3300, -23.2296

Details

The XYZ color **12.2258, 12.2048, 28.0970** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **19.4548, 19.8576, 9.2868**, and the grayscale version is **11.0846, 11.6619, 12.6998**.

A 20% lighter version of the original color is **29.3871, 29.6926, 57.6085**, and **3.4723, 3.3847, 10.8262** is the 20% darker color. If you saturate the color by 10%, you get **10.4078, 10.0301, 27.7733**, and if you desaturate by 10%, it is **14.4032, 14.7206, 28.4681**.

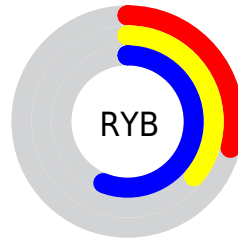
Distribution



Red (29%)

Green (38%)

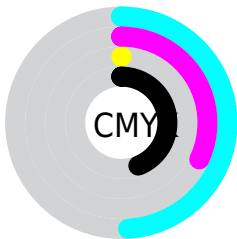
Blue (56%)



Red (29%)

Yellow (36%)

Blue (56%)

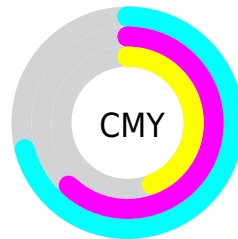


Cyan (49%)

Magenta (32%)

Yellow (0%)

Black (44%)



Cyan (71%)

Magenta (62%)

Yellow (44%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2258, 12.2048, 28.0970 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 12.2258, 12.2048, 28.0970 by changing the saturation by 10% instead.

■ 12.2258, 12.2048,
28.0970

■ 12.2258, 12.2048,
28.0970

199.6340,
205.7564, 306.8566

■ 6.9709, 6.8833,
18.1591

■ 29.5190, 29.8676,
57.6642

■ 3.4901, 3.3892,
10.8937

■ 42.2880, 42.9776,
78.1307

■ 1.4179, 1.3382,
5.8821

■ 58.2925, 59.4527,
102.9437

■ 0.2689, 0.1705,
2.7059

■ 77.8978, 79.6771,
132.5218

■ 0.0000, 0.0000,
0.9464

■ 101.4692,
104.0353, 167.2837

■ 0.0000, 0.0000,
0.0000

129.3722,

132.9116, 207.6477

161.9720,
166.6906, 254.0325

■ 12.2258, 12.2048,
28.0970

■ 12.2258, 12.2048,
28.0970

■ 10.4078, 10.0301,
27.7733

■ 14.4032, 14.7206,
28.4681

■ 8.9267, 8.1789,
27.4940

■ 16.9580, 17.5914,
28.8875

■ 7.7592, 6.6338,
27.2573

■ 19.9086, 20.8316,
29.3574

■ 6.8784, 5.3747,
27.0607

■ 23.2717, 24.4546,
29.8795

■ 6.2293, 4.3668,
26.9004

■ 27.0629, 28.4729,
30.4553

■ 6.1479, 4.2412,
26.8804

■ 31.2971, 32.8987,
31.0864

■ 35.9886, 37.7432,
31.7742

■ 41.1506, 43.0176,
32.5202

■ 46.7963, 48.7324,
33.3257

Harmonies

Analogous

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



10.2183, 12.2048, 27.0654



12.2258, 12.2048, 28.0970



14.2903, 12.2048, 24.3347

Triad

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



12.2258, 12.2048, 28.0970



14.9967, 12.2048, 7.3277



8.2600, 12.2048, 9.5749

Complementary

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



12.2258, 12.2048, 28.0970



19.4548, 19.8576, 9.2868

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.



9.2710, 12.2048, 6.2235



12.2258, 12.2048, 28.0970



13.1016, 12.2048, 5.2213

Square

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



12.2258, 12.2048, 28.0970



16.0108, 12.2048, 11.6054



10.9965, 12.2048, 4.8885



8.0847, 12.2048, 15.1279

Rectangle

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



12.2258, 12.2048, 28.0970



15.3650, 12.2048, 20.1265



10.9965, 12.2048, 4.8885



8.5070, 12.2048, 8.2073

Sweetspot

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



12.2262, 12.2052, 28.0973



36.9900, 38.7753, 52.0728



16.1577, 22.7467, 21.1502



8.2342, 8.6231, 11.9026



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.2262, 12.2052, 28.0973



18.1891, 17.4856, 48.9544



11.1845, 8.8199, 27.4988



5.2713, 5.5385, 6.8200



5.3738, 3.7337, 23.4145



0.0704, 0.0737, 0.2302

Inverse Universe

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



16.1554, 11.7093, 12.9642



26.1295, 17.1751, 18.2174



20.9617, 25.4686, 10.2904



5.4804, 5.4527, 6.0280



10.5156, 5.3633, 3.1004



0.1101, 0.0551, 0.0801

Previews

White Background



This preview shows how the XYZ color 12.2258, 12.2048, 28.0970 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 12.2258, 12.2048, 28.0970 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

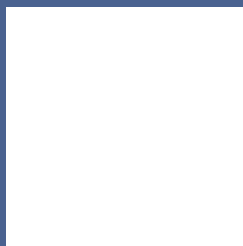
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.2258, 12.2048, 28.0970

Background



This preview shows how black text looks on a background with the XYZ color 12.2258, 12.2048, 28.0970.



This preview shows how white text looks on a background with the XYZ color 12.2258, 12.2048,

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

12.2258, 12.2048, 28.0970

Protanopia

12.6326, 12.1577, 27.2721

Deuteranopia

12.4506, 12.1827, 28.0808



Tritanopia

10.0453, 12.1829, 17.4449

Trichromacy



Original Color

12.2258, 12.2048, 28.0970

Protanomaly

12.5409, 12.2380, 27.6878

Deuteranomaly

12.3693, 12.1408, 28.0770

Tritanomaly

10.7734, 12.1869, 20.8533

Monochromacy



Original Color

12.2258, 12.2048, 28.0970

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

11.2798, 11.8163, 17.3091

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2258, 12.2048, 28.0970 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(74, 98, 144)` looks like.

```
.text, #text, p{  
    color:rgb(74, 98, 144)  
}
```

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(74, 98, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(74, 98, 144) }
```

Border

The CSS property to change the border of an element to XYZ 12.2258, 12.2048, 28.0970 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(74, 98, 144) }
```


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

```
.border{ border-color:rgb(74, 98, 144) }
```

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

Here you see how a box with a 4 pixel `rgb(74, 98, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(74, 98, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(74, 98, 144);  
box-shadow:4px 4px 4px 4px rgb(74, 98,  
144) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2258, 12.2048, 28.0970 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(74, 98, 144) }
```

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

```
.background{ background-color: rgb(74, 98,  
144) }
```

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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