

Converting Colors

XYZ(12.2993, 15.0170, 30.2677)

Have a look what the booklet for
XYZ(12.2993, 15.0170, 30.2677)
contains.

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Color

**XYZ(12.2838, 14.9862,
30.2622)**

Conversions

Conversions Part 1

Format	Color
Hex	237494
RGB	35, 116, 148
RGB Percent	14%, 45%, 58%
CMY	0.8627, 0.5451, 0.4196
CMYK	0.76, 0.22, 0.00, 0.42
HSL	197°, 62%, 36%
HSV	197°, 76%, 58%
XYZ	12.2838, 14.9862, 30.2622
YIQ	95.4290, -58.5480, -7.2200

Conversions

Conversions Part 2

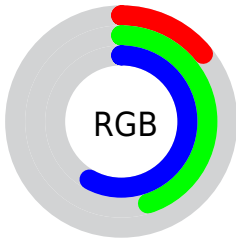
Format	Color
R_{YB}	35, 82, 148
Decimal	2323604
CIE _{Lab}	45.62, -12.79, -24.29
CIE _{LCh}	46, 27.448, 242.231
Yxy	14.9862, 0.2135, 0.2605
Android (android.graphics.Color)	4280513684 (0xFF237494)
YUV	95.4290, 25.9175, -52.9962
Hunter-Lab	38.7120, -11.1058, -19.2501

Details

The XYZ color **12.2838, 14.9862, 30.2622** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **14.5239, 10.4325, 2.8389**, and the grayscale version is **10.9306, 11.4999, 12.5233**.

A 20% lighter version of the original color is **29.5931, 34.8109, 61.0366**, and **4.2248, 4.9973, 12.0512** is the 20% darker color. If you saturate the color by 10%, you get **11.4113, 13.8355, 30.0864**, and if you desaturate by 10%, it is **13.3910, 16.2907, 30.4559**.

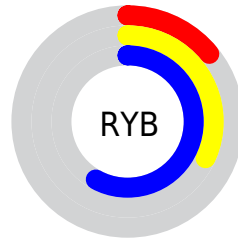
Distribution



Red (14%)

Green (45%)

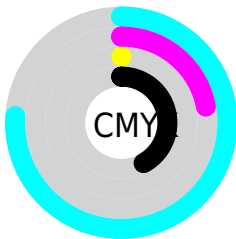
Blue (58%)



Red (14%)

Yellow (32%)

Blue (58%)

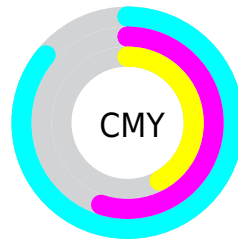


Cyan (76%)

Magenta (22%)

Yellow (0%)

Black (42%)



Cyan (86%)

Magenta (55%)

Yellow (42%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2838, 14.9862, 30.2622 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 12.2838, 14.9862, 30.2622 by changing the saturation by 10% instead.

12.2838, 14.9862,
30.2622

12.2838, 14.9862,
30.2622

200.0069,
223.2827, 317.3700

7.0108, 8.8097,
19.7840

29.6233, 34.8290,
61.1425

3.5153, 4.6173,
12.0556

42.4206, 49.2640,
82.3816

1.4317, 2.0245,
6.6585

58.4567, 67.2207,
108.0448

0.2787, 0.6216,
3.1743

78.0970, 89.0835,
138.5505

0.0000, 0.0000,
1.1843

101.7068,
115.2366, 174.3173

0.0000, 0.0000,
0.0000

129.6515,

146.0646, 215.7638

162.2964,
181.9518, 263.3085

■ 12.2838, 14.9862,
30.2622

■ 12.2838, 14.9862,
30.2622

■ 11.4113, 13.8355,
30.0864

■ 13.3910, 16.2907,
30.4559

■ 10.7355, 12.8179,
29.9256

■ 14.7553, 17.7604,
30.6677

■ 10.5084, 12.4642,
29.8693

■ 16.3983, 19.4069,
30.8989

■ 18.3384, 21.2401,
31.1505

■ 20.5927, 23.2693,
31.4234

■ 23.1768, 25.5028,
31.7183

■ 26.1051, 27.9486,
32.0360

■ 29.3913, 30.6139,
32.3773

■ 33.0482, 33.5059,
32.7427

Harmonies

Analogous

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



10.8252, 14.9862, 24.0351



12.2838, 14.9862, 30.2622



14.4165, 14.9862, 32.4996

Triad

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



12.2838, 14.9862, 30.2622



19.1283, 14.9862, 15.8301



12.0160, 14.9862, 7.7864

Complementary

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



12.2838, 14.9862, 30.2622



14.5239, 10.4325, 2.8389

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.



14.0727, 14.9862, 6.6612



12.2838, 14.9862, 30.2622



18.3158, 14.9862, 10.4587

Square

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



12.2838, 14.9862, 30.2622



18.5198, 14.9862, 22.9481



16.4022, 14.9862, 7.4897



10.6827, 14.9862, 11.1055

Rectangle

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



12.2838, 14.9862, 30.2622



15.9810, 14.9862, 31.0486



16.4022, 14.9862, 7.4897



12.6376, 14.9862, 7.1865

Sweetspot

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



12.2843, 14.9867, 30.2626



37.5899, 42.1572, 55.5905



12.2416, 21.9208, 8.6081



8.2525, 9.3355, 12.6518



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.



12.2843, 14.9867, 30.2626



19.2206, 23.0510, 52.8708



7.7275, 5.8730, 28.7436



5.8267, 6.2875, 7.3762



8.9996, 10.6940, 25.5208



0.1352, 0.1811, 0.3207

Inverse Universe

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



15.9666, 8.7595, 17.3727



26.5630, 13.3947, 26.5495



19.4313, 20.2471, 4.4747



5.9660, 5.8815, 6.9270



12.6697, 6.2729, 12.2733



0.1677, 0.0818, 0.2169

Previews

White Background



This preview shows how the XYZ color 12.2838, 14.9862, 30.2622 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 12.2838, 14.9862, 30.2622 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

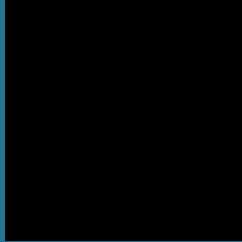
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2838, 14.9862, 30.2622

Background



This preview shows how black text looks on a background with the XYZ color 12.2838, 14.9862, 30.2622.

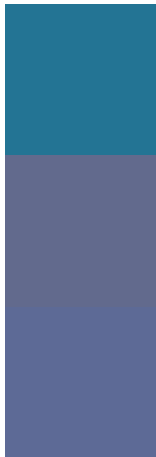


This preview shows how white text looks on a background with the XYZ color 12.2838, 14.9862,

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

12.2838, 14.9862, 30.2622

Protanopia

14.9988, 14.8278, 27.2708

Deuteranopia

15.1733, 14.8372, 30.9183



Tritanopia

10.7109, 14.8568, 23.0720

Trichromacy



Original Color

12.2838, 14.9862, 30.2622

Protanomaly

13.5116, 14.6613, 28.5033

Deuteranomaly

13.6732, 14.6995, 30.5504

Tritanomaly

11.2109, 14.8832, 25.5744

Monochromacy



Original Color

12.2838, 14.9862, 30.2622

Achromatopsia

10.8771, 11.4435, 12.4620

Achromatomaly

10.6352, 12.3319, 17.7393

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2838, 14.9862, 30.2622 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(35, 116, 148)` looks like.

```
.text, #text, p{  
    color:rgb(35, 116, 148)  
}
```

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(35, 116, 148) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 116, 148) }
```

Border

The CSS property to change the border of an element to XYZ 12.2838, 14.9862, 30.2622 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(35, 116, 148) }
```


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

```
.border{ border-color:rgb(35, 116, 148) }
```

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

Here you see how a box with a 4 pixel `rgb(35, 116, 148)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 116, 148); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 116, 148);  
box-shadow:4px 4px 4px 4px rgb(35, 116,  
148) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2838, 14.9862, 30.2622 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 116, 148) }
```

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

```
.background{ background-color: rgb(35, 116,  
148) }
```

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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