

Converting Colors

XYZ(12.0020, 13.8491, 20.7203)

Have a look what the booklet for
XYZ(12.0020, 13.8491, 20.7203)
contains.

XYZ(12.0243, 13.9038, 20.7889)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.0243, 13.9038,
20.7889)**

Conversions

Conversions Part 1

Format	Color
Hex	4C6D7B
RGB	76, 109, 123
RGB Percent	30%, 43%, 48%
CMY	0.7020, 0.5725, 0.5176
CMYK	0.38, 0.11, 0.00, 0.52
HSL	198°, 24%, 39%
HSV	198°, 38%, 48%
XYZ	12.0243, 13.9038, 20.7889
YIQ	100.7290, -24.1620, -2.6420

Conversions

Conversions Part 2

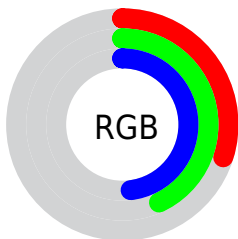
Format	Color
RYB	76, 95, 123
Decimal	5008763
CIELab	44.09, -8.03, -11.55
CIELCh	44, 14.068, 235.211
Yxy	13.9038, 0.2574, 0.2976
Android (android.graphics.Color)	4283198843 (0xFF4C6D7B)
YUV	100.7290, 10.9796, -21.6873
Hunter-Lab	37.2878, -7.6923, -6.9542

Details

The XYZ color **12.0243, 13.9038, 20.7889** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **13.1294, 12.0455, 8.4710**, and the grayscale version is **12.2773, 12.9166, 14.0662**.

A 20% lighter version of the original color is **29.0611, 32.7488, 45.3469**, and **3.4106, 4.1727, 7.1042** is the 20% darker color. If you saturate the color by 10%, you get **10.7563, 12.6823, 20.6202**, and if you desaturate by 10%, it is **13.4963, 15.2553, 20.9724**.

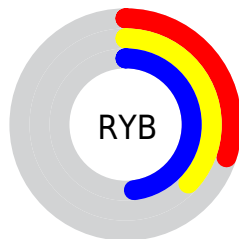
Distribution



Red (30%)

Green (43%)

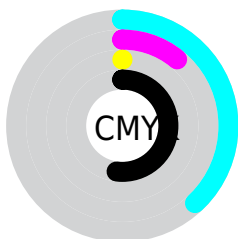
Blue (48%)



Red (30%)

Yellow (37%)

Blue (48%)

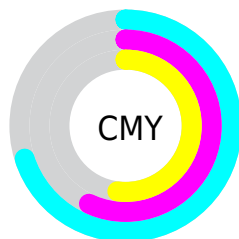


Cyan (38%)

Magenta (11%)

Yellow (0%)

Black (52%)



Cyan (70%)

Magenta (57%)

Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0243, 13.9038, 20.7889 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 12.0243, 13.9038, 20.7889 by changing the saturation by 10% instead.

■ 12.0243, 13.9038,
20.7889

■ 12.0243, 13.9038,
20.7889

■ 198.3327,
216.6315, 268.8986

■ 6.8325, 8.0538,
12.7800

■ 29.1558, 32.9182,
45.6122

■ 3.4030, 4.1294,
7.1483

■ 41.8263, 46.8515,
63.2636

■ 1.3703, 1.7462,
3.4752

■ 57.7204, 64.2479,
84.9664

■ 0.2349, 0.4533,
1.3421

■ 77.2035, 85.4918,
111.1390

■ 0.0000, 0.0000,
0.0959

■ 100.6409,
110.9678, 142.2000

■ 0.0000, 0.0000,
0.0000

128.3980,

141.0602, 178.5679

160.8402,
176.1533, 220.6612

■ 12.0243, 13.9038,
20.7889

■ 12.0243, 13.9038,
20.7889

■ 10.7563, 12.6823,
20.6202

■ 13.4963, 15.2553,
20.9724

■ 9.6802, 11.5832,
20.4648

■ 15.1811, 16.7407,
21.1703

■ 8.7845, 10.6007,
20.3223

■ 17.0884, 18.3656,
21.3835

■ 8.0556, 9.7276,
20.1922

■ 19.2270, 20.1348,
21.6122

■ 7.4782, 8.9556,
20.0736

■ 21.6052, 22.0527,
21.8571

■ 7.0125, 8.2638,
19.9647

■ 24.2309, 24.1238,
22.1184

■ 6.9321, 8.1438,
19.9457

■ 27.1114, 26.3522,
22.3967

■ 30.2540, 28.7417,
22.6923

■ 33.6656, 31.2962,
23.0056

Harmonies

Analogous

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



11.3612, 13.9038, 17.9203



12.0243, 13.9038, 20.7889



13.0362, 13.9038, 22.1528

Triad

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



12.0243, 13.9038, 20.7889



15.4790, 13.9038, 15.6596



12.3191, 13.9038, 10.2170

Complementary

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



12.0243, 13.9038, 20.7889



13.1294, 12.0455, 8.4710

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.



13.3957, 13.9038, 9.7878



12.0243, 13.9038, 20.7889



15.2605, 13.9038, 12.6612

Square

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



12.0243, 13.9038, 20.7889



15.0635, 13.9038, 18.9369



14.4821, 13.9038, 10.6183



11.5245, 13.9038, 11.8860

Rectangle

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



12.0243, 13.9038, 20.7889



13.7882, 13.9038, 21.9031



14.4821, 13.9038, 10.6183



12.6582, 13.9038, 9.9339

Sweetspot

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



12.0247, 13.9043, 20.7892



29.5119, 31.9701, 38.1720



11.8804, 16.4294, 12.0666



6.8615, 7.4540, 8.9802



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.0247, 13.9043, 20.7892



19.4898, 22.9358, 36.9564



9.8985, 9.6519, 20.0805



4.0111, 4.3204, 5.0657



7.1662, 8.4149, 20.6318



33.4145, 38.6016, 98.1595

Inverse Universe

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



13.5135, 10.4844, 15.7800



22.6494, 16.1704, 26.2151



15.3579, 16.5025, 9.2138



4.1060, 4.0581, 4.7560



10.2005, 5.0564, 9.6127



48.2692, 23.9640, 43.8093

Previews

White Background



This preview shows how the XYZ color 12.0243, 13.9038, 20.7889 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 12.0243, 13.9038, 20.7889 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 12.0243, 13.9038, 20.7889

Background



This preview shows how black text looks on a background with the XYZ color 12.0243, 13.9038, 20.7889.

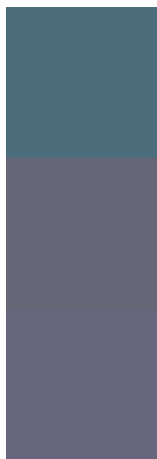


This preview shows how white text looks on a background with the XYZ color 12.0243, 13.9038,

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

12.0243, 13.9038, 20.7889

Protanopia

13.5468, 13.7991, 19.4023

Deuteranopia

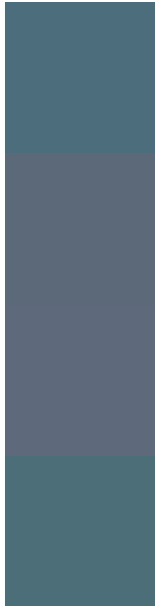
14.1620, 13.9265, 21.3437



Tritanopia

11.8074, 13.9796, 19.5288

Trichromacy



Original Color

12.0243, 13.9038, 20.7889

Protanomaly

12.8554, 13.7345, 19.7428

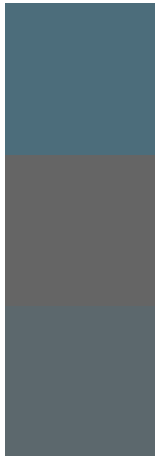
Deuteranomaly

13.3058, 13.9381, 21.0578

Tritanomaly

11.8677, 14.0038, 19.8468

Monochromacy



Original Color

12.0243, 13.9038, 20.7889

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.1243, 13.2801, 16.3923

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0243, 13.9038, 20.7889 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(76, 109, 123)` looks like.

```
.text, #text, p{  
    color:rgb(76, 109, 123)  
}
```

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(76, 109, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(76, 109, 123) }
```

Border

The CSS property to change the border of an element to XYZ 12.0243, 13.9038, 20.7889 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(76, 109, 123) }
```


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

```
.border{ border-color:rgb(76, 109, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(76, 109, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(76, 109, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(76, 109, 123);  
box-shadow:4px 4px 4px 4px rgb(76, 109,  
123) }
```

Background

The CSS property to change the background color of an element to XYZ 12.0243, 13.9038, 20.7889 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(76, 109, 123) }
```

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

```
.background{ background-color: rgb(76, 109,  
123) }
```

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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