

Converting Colors

XYZ(12.3330, 12.3330, 21.9804)

Have a look what the booklet for
XYZ(12.3330, 12.3330, 21.9804)
contains.

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Color

**XYZ(12.3838, 12.4177,
22.1662)**

Conversions

Conversions Part 1

Format	Color
Hex	596280
RGB	89, 98, 128
RGB Percent	35%, 38%, 50%
CMY	0.6510, 0.6157, 0.4980
CMYK	0.30, 0.23, 0.00, 0.50
HSL	226°, 18%, 43%
HSV	226°, 30%, 50%
XYZ	12.3838, 12.4177, 22.1662
YIQ	98.7290, -14.9940, 7.4220

Conversions

Conversions Part 2

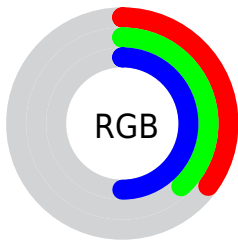
Format	Color
R_{YB}	89, 96, 128
Decimal	5857920
CIE _{Lab}	41.87, 4.03, -17.87
CIE _{LCh}	42, 18.322, 282.702
Yxy	12.4177, 0.2637, 0.2644
Android (android.graphics.Color)	4284048000 (0xFF596280)
YUV	98.7290, 14.4306, -8.5323
Hunter-Lab	35.2388, 1.0616, -12.6280

Details


The XYZ color **12.3838, 12.4177, 22.1662** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **17.3024, 18.5044, 12.1115**, and the grayscale version is **11.7595, 12.3719, 13.4730**.

A 20% lighter version of the original color is **29.9032, 30.4065, 48.0090**, and **3.5941, 3.5127, 7.8857** is the 20% darker color. If you saturate the color by 10%, you get **10.3954, 10.1083, 21.8255**, and if you desaturate by 10%, it is **14.7000, 15.0649, 22.5553**.

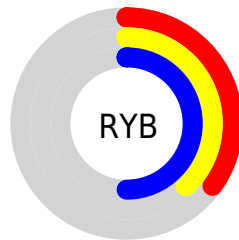
Distribution



 Red (35%)


 Green (38%)

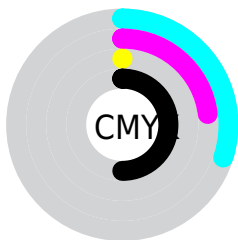
 Blue (50%)





 Red (35%)

 Yellow (38%)


 Blue (50%)

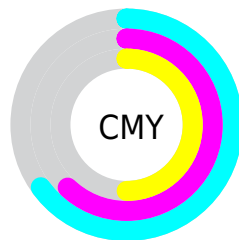



 Cyan (30%)

 Magenta (23%)

 Yellow (0%)

 Black (50%)



 Cyan (65%)

 Magenta (62%)

 Yellow (50%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3838, 12.4177, 22.1662 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 12.3838, 12.4177, 22.1662 by changing the saturation by 10% instead.

■ 12.3838, 12.4177,
22.1662

■ 12.3838, 12.4177,
22.1662

200.6483,
207.1513, 276.3948

■ 7.0797, 7.0288,
13.7796

■ 29.8030, 30.2536,
47.9262

■ 3.5588, 3.4801,
7.8305

■ 42.6489, 43.4694,
66.1368

■ 1.4557, 1.3872,
3.9005

■ 58.7393, 60.0630,
88.4590

■ 0.2954, 0.2073,
1.5709

■ 78.4398, 80.4188,
115.3115

■ 0.0000, 0.0000,
0.2699

102.1155,
104.9211, 147.1127

■ 0.0000, 0.0000,
0.0000

130.1320,

133.9543, 184.2814

162.8544,
167.9029, 227.2358

■ 12.3838, 12.4177,
22.1662

■ 12.3838, 12.4177,
22.1662

■ 10.3954, 10.1083,
21.8255

■ 14.7000, 15.0649,
22.5553

■ 8.7184, 8.1214,
21.5303

■ 17.3568, 18.0614,
22.9937

■ 7.3368, 6.4425,
21.2791

■ 20.3681, 21.4202,
23.4833

■ 6.2327, 5.0555,
21.0696

■ 23.7464, 25.1530,
24.0257

■ 5.3860, 3.9427,
20.8994

■ 27.5036, 29.2710,
24.6225

■ 4.7738, 3.0842,
20.7660

■ 31.6512, 33.7849,
25.2752

■ 4.3490, 2.4639,
20.6686

■ 36.2000, 38.7050,
25.9851

■ 41.1606, 44.0412,
26.7537

■ 46.5430, 49.8031,
27.5821

Harmonies

Analogous

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



11.0461, 12.4177, 21.9520



12.3838, 12.4177, 22.1662



13.6558, 12.4177, 19.7664

Triad

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



12.3838, 12.4177, 22.1662



13.8189, 12.4177, 9.0723



9.4896, 12.4177, 11.4248

Complementary

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



12.3838, 12.4177, 22.1662



17.3024, 18.5044, 12.1115

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.



10.1252, 12.4177, 8.7525



12.3838, 12.4177, 22.1662



12.5930, 12.4177, 7.5832

Square

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



12.3838, 12.4177, 22.1662



14.5259, 12.4177, 11.9482



11.2400, 12.4177, 7.4785



9.4430, 12.4177, 15.2256

Rectangle

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



12.3838, 12.4177, 22.1662



14.2679, 12.4177, 17.2325



11.2400, 12.4177, 7.4785



9.6391, 12.4177, 10.3844

Sweetspot

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



12.3842, 12.4182, 22.1665



31.1925, 32.5094, 40.5872



15.1631, 18.8920, 20.2689



7.1554, 7.4459, 9.4784



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901

Same Dimension

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



12.3842, 12.4182, 22.1665



19.1645, 18.8051, 38.5759



12.6585, 11.3790, 21.9514



4.1832, 4.3604, 5.4344



4.3132, 2.4450, 20.4945



0.0000, 0.0000, 0.0000

Inverse Universe

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



14.6794, 12.6162, 13.2172



23.9708, 19.3876, 19.7980



16.9396, 19.9835, 12.4161



4.3653, 4.3593, 4.7281



9.0541, 4.6413, 1.6087



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.3838, 12.4177, 22.1662 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 12.3838, 12.4177, 22.1662 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

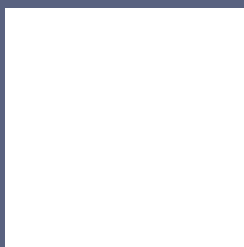
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.3838, 12.4177, 22.1662

Background



This preview shows how black text looks on a background with the XYZ color 12.3838, 12.4177, 22.1662.

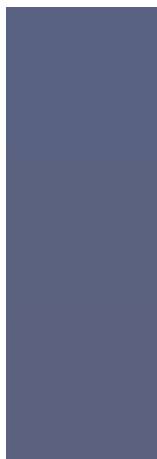


This preview shows how white text looks on a background with the XYZ color 12.3838, 12.4177,

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

12.3838, 12.4177, 22.1662

Protanopia

12.5783, 12.5180, 22.1753

Deuteranopia

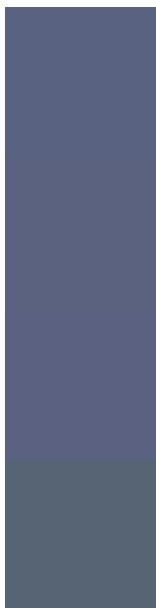
12.5846, 12.3832, 22.1490



Tritanopia

11.1603, 12.3428, 16.2622

Trichromacy



Original Color

12.3838, 12.4177, 22.1662

Protanomaly

12.4804, 12.4675, 22.1708

Deuteranomaly

12.4854, 12.3320, 22.1443

Tritanomaly

11.5473, 12.3537, 18.2989

Monochromacy



Original Color

12.3838, 12.4177, 22.1662

Achromatopsia

11.8596, 12.4772, 13.5877

Achromatomaly

11.9956, 12.4824, 16.5290

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3838, 12.4177, 22.1662 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(89, 98, 128) looks like.

```
.text, #text, p{  
    color:rgb(89, 98, 128)  
}
```

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(89, 98, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 98, 128) }
```

Border

The CSS property to change the border of an element to XYZ 12.3838, 12.4177, 22.1662 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(89, 98, 128) }
```


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

```
.border{ border-color:rgb(89, 98, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 98, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 98, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 98, 128);  
box-shadow:4px 4px 4px 4px rgb(89, 98,  
128) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3838, 12.4177, 22.1662 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 98, 128) }
```

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

```
.background{ background-color: rgb(89, 98,  
128) }
```

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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