

Converting Colors

XYZ(12.8358, 12.2677, 23.7371)

Have a look what the booklet for
XYZ(12.8358, 12.2677, 23.7371)
contains.

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Color

**XYZ(12.8400, 12.2050,
23.8694)**

Conversions

Conversions Part 1

Format	Color
Hex	5D5F85
RGB	93, 95, 133
RGB Percent	36%, 37%, 52%
CMY	0.6353, 0.6274, 0.4784
CMYK	0.30, 0.29, 0.00, 0.48
HSL	237°, 18%, 44%
HSV	237°, 30%, 52%
XYZ	12.8400, 12.2050, 23.8694
YIQ	98.7340, -13.3900, 11.3940

Conversions

Conversions Part 2

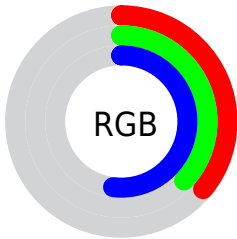
Format	Color
RYB	93, 95, 133
Decimal	6119301
CIELab	41.54, 8.54, -21.39
CIELCh	42, 23.027, 291.759
Yxy	12.2050, 0.2625, 0.2495
Android (android.graphics.Color)	4284309381 (0xFF5D5F85)
YUV	98.7340, 16.8931, -5.0287
Hunter-Lab	34.9357, 4.4672, -16.0543

Details

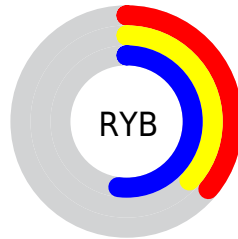
The XYZ color **12.8400, 12.2050, 23.8694** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **19.7651, 22.0095, 13.5628**, and the grayscale version is **11.7545, 12.3666, 13.4673**.

A 20% lighter version of the original color is **30.4899, 29.7253, 50.5849**, and **3.7418, 3.3790, 8.6386** is the 20% darker color. If you saturate the color by 10%, you get **10.5618, 9.4761, 23.4630**, and if you desaturate by 10%, it is **15.5378, 15.4248, 24.3489**.

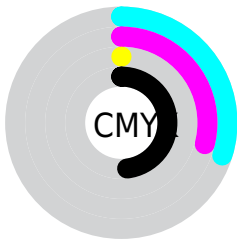
Distribution



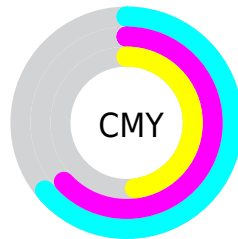
- Red (36%)
- Green (37%)
- Blue (52%)



- Red (36%)
- Yellow (37%)
- Blue (52%)



- Cyan (30%)
- Magenta (29%)
- Yellow (0%)
- Black (48%)



- Cyan (64%)
- Magenta (63%)
- Yellow (48%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8400, 12.2050, 23.8694 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 12.8400, 12.2050, 23.8694 by changing the saturation by 10% instead.

■ 12.8400, 12.2050,
23.8694

■ 12.8400, 12.2050,
23.8694

203.5481,
205.7578, 285.4248

■ 7.3947, 6.8835,
15.0255

■ 30.6198, 29.8679,
50.7582

■ 3.7587, 3.3893,
8.6904

■ 43.6850, 42.9781,
69.6401

■ 1.5665, 1.3382,
4.4458

■ 60.0209, 59.4532,
92.7050

■ 0.3704, 0.1705,
1.8729

■ 79.9928, 79.6778,
120.3716

■ 0.0000, 0.0000,
0.4754

103.9662,
104.0361, 153.0583

■ 0.0000, 0.0000,
0.0000

132.3063,

132.9126, 191.1837

165.3784,
166.6917, 235.1664

■ 12.8400, 12.2050,
23.8694

■ 12.8400, 12.2050,
23.8694

■ 10.5618, 9.4761,
23.4630

■ 15.5378, 15.4248,
24.3489

■ 8.6810, 7.2126,
23.1252

■ 18.6734, 19.1565,
24.9039

■ 7.1752, 5.3890,
22.8526

■ 22.2657, 23.4215,
25.5378

■ 6.0191, 3.9766,
22.6409

■ 26.3319, 28.2396,
26.2535

■ 5.1845, 2.9435,
22.4855

■ 30.8884, 33.6297,
27.0537

■ 4.6388, 2.2529,
22.3809

■ 35.9507, 39.6096,
27.9412

■ 4.3059, 1.8379,
22.3184

■ 41.5337, 46.1965,
28.9183

■ 47.6518, 53.4069,
29.9876

■ 54.3186, 61.2565,
31.1513

Harmonies

Analogous

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



11.1435, 12.2050, 24.7122



12.8400, 12.2050, 23.8694



14.3278, 12.2050, 19.8792

Triad

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



12.8400, 12.2050, 23.8694



13.7176, 12.2050, 7.2656



8.6875, 12.2050, 12.0065

Complementary

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



12.8400, 12.2050, 23.8694



19.7651, 22.0095, 13.5628

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.



9.2433, 12.2050, 8.3449



12.8400, 12.2050, 23.8694



12.0698, 12.2050, 6.0737

Square

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



12.8400, 12.2050, 23.8694



14.8676, 12.2050, 10.1454



10.4434, 12.2050, 6.4144



8.8509, 12.2050, 17.0233

Rectangle

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



12.8400, 12.2050, 23.8694



14.9478, 12.2050, 16.4012



10.4434, 12.2050, 6.4144



8.7944, 12.2050, 10.5980

Sweetspot

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



12.8404, 12.2055, 23.8697



33.9668, 34.9311, 44.6905



16.9537, 20.7232, 24.3433



7.4807, 7.6656, 10.0380



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.8404, 12.2055, 23.8697



20.1625, 18.4674, 42.2403



14.6202, 12.8589, 23.9020



4.4518, 4.5792, 5.8500



4.1032, 1.7543, 21.2590



0.0154, 0.0084, 0.0740

Inverse Universe

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



15.6531, 13.6418, 12.6351



26.0469, 21.5107, 18.7281



17.5218, 21.2559, 13.5355



4.6813, 4.6922, 4.9341



9.2492, 4.7640, 0.6189



0.0326, 0.0167, 0.0052

Previews

White Background



This preview shows how the XYZ color 12.8400, 12.2050, 23.8694 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 12.8400, 12.2050, 23.8694 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 12.8400, 12.2050, 23.8694

Background



This preview shows how black text looks on a background with the XYZ color 12.8400, 12.2050, 23.8694.

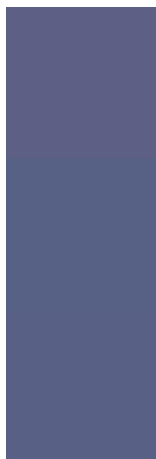


This preview shows how white text looks on a background with the XYZ color 12.8400, 12.2050,

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

12.8400, 12.2050, 23.8694

Protanopia

12.5083, 12.2969, 24.2685

Deuteranopia

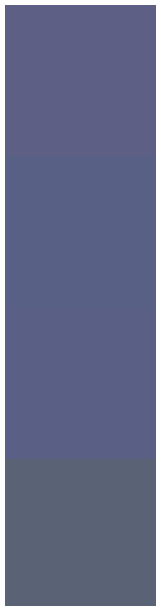
12.5328, 12.3176, 23.9073



Tritanopia

11.2884, 12.2718, 15.9611

Trichromacy



Original Color

12.8400, 12.2050, 23.8694

Protanomaly

12.6058, 12.2108, 24.2468

Deuteranomaly

12.6330, 12.2329, 23.8856

Tritanomaly

11.7950, 12.1934, 18.5615

Monochromacy



Original Color

12.8400, 12.2050, 23.8694

Achromatopsia

11.8596, 12.4772, 13.5877

Achromatomaly

12.1667, 12.4244, 16.7958

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8400, 12.2050, 23.8694 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(93, 95, 133) looks like.

```
.text, #text, p{  
    color:rgb(93, 95, 133)  
}
```

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(93, 95, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(93, 95, 133) }
```

Border

The CSS property to change the border of an element to XYZ 12.8400, 12.2050, 23.8694 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(93, 95, 133) }
```


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

```
.border{ border-color:rgb(93, 95, 133) }
```

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

Here you see how a box with a 4 pixel `rgb(93, 95, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(93, 95, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(93, 95, 133);  
box-shadow:4px 4px 4px 4px rgb(93, 95,  
133) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8400, 12.2050, 23.8694 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(93, 95, 133) }
```

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

```
.background{ background-color: rgb(93, 95,  
133) }
```

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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