

Converting Colors

XYZ(12.1232, 23.1598, 3.8313)

Have a look what the booklet for
XYZ(12.1232, 23.1598, 3.8313)
contains.

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Color

**XYZ(12.1188, 23.1575,
3.8311)**

Conversions

Conversions Part 1

Format	Color
Hex	249900
RGB	36, 153, 0
RGB Percent	14%, 60%, 0%
CMY	0.8588, 0.4000, 1.0000
CMYK	0.76, 0.00, 1.00, 0.40
HSL	106°, 100%, 30%
HSV	106°, 100%, 60%
XYZ	12.1188, 23.1575, 3.8311
YIQ	100.5750, -20.6190, -72.3870

Conversions

Conversions Part 2

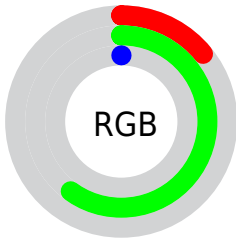
Format	Color
RYB	0, 153, 117
Decimal	2398464
CIELab	55.23, -55.39, 57.28
CIELCh	55, 79.679, 134.037
Yxy	23.1575, 0.3099, 0.5922
Android (android.graphics.Color)	4280588544 (0xFF249900)
YUV	100.5750, -49.5835, -56.6323
Hunter-Lab	48.1222, -39.2616, 28.9654

Details

The XYZ color **12.1188, 23.1575, 3.8311** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **13.0881, 6.0831, 30.6225**, and the grayscale version is **12.3884, 13.0335, 14.1935**.

A 20% lighter version of the original color is **29.2549, 48.4375, 13.6018**, and **4.5572, 9.1143, 1.5191** is the 20% darker color. If you saturate the color by 10%, you get **12.1190, 23.1583, 3.8313**, and if you desaturate by 10%, it is **12.6851, 23.4399, 4.3195**.

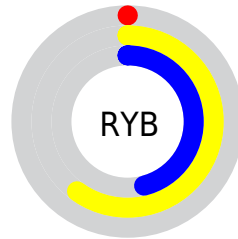
Distribution



Red (14%)

Green (60%)

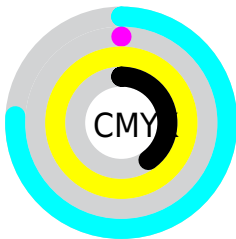
Blue (0%)



Red (0%)

Yellow (60%)

Blue (46%)

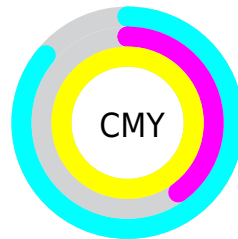


Cyan (76%)

Magenta (0%)

Yellow (100%)

Black (40%)



Cyan (86%)

Magenta (40%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.1188, 23.1575, 3.8311 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 12.1188, 23.1575, 3.8311 by changing the saturation by 10% instead.

■ 12.1188, 23.1575,
3.8311

■ 12.1188, 23.1575,
3.8311

198.9441,
268.5329, 146.3291

■ 6.8974, 14.7098,
1.5332

■ 29.3263, 48.6518,
13.6183

■ 3.4438, 8.6160,
0.2424

■ 42.0431, 66.4673,
21.9447

■ 1.3926, 4.4916,
0.0000

■ 57.9890, 88.1741,
33.1176

■ 0.2509, 1.9522,
0.0000

■ 77.5296, 114.1567,
47.5555


■ 0.0000, 0.5795,
0.0000


■ 101.0300,
144.7995, 65.6771


■ 0.0000, 0.0000,
0.0000


■ 128.8556,


180.4869, 87.9009


 161.3719,
221.6032, 114.6454


 12.1188, 23.1575,
3.8311


 12.1188, 23.1575,
3.8311


 12.1190, 23.1583,
3.8313

 12.6851, 23.4399,
4.3195

 13.4615, 23.8224,
5.1584

 14.4893, 24.3235,
6.5070

 15.7899, 24.9527,
8.4292

 17.3823, 25.7189,
10.9795

■ 19.2839, 26.6297,
14.2062

■ 21.5103, 27.6924,
18.1528

■ 24.0764, 28.9138,
22.8591

■ 26.9959, 30.3001,
28.3621

Harmonies

Analogous

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



18.1106, 23.1575, 1.2836



12.1188, 23.1575, 3.8311



9.3044, 23.1575, 13.9828

Triad

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



12.1188, 23.1575, 3.8311



17.6262, 23.1575, 107.9447



43.1706, 23.1575, 15.0867

Complementary

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



12.1188, 23.1575, 3.8311



13.0881, 6.0831, 30.6225

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.



42.9373, 23.1575, 41.2626



12.1188, 23.1575, 3.8311



26.4336, 23.1575, 109.0748

Square

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



12.1188, 23.1575, 3.8311



11.8471, 23.1575, 77.0230



36.1994, 23.1575, 79.5061



36.7701, 23.1575, 4.1731

Rectangle

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



12.1188, 23.1575, 3.8311



8.9605, 23.1575, 28.8292



36.1994, 23.1575, 79.5061



43.9098, 23.1575, 21.9155

Sweetspot

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



12.1193, 23.1585, 3.8316



38.2647, 49.4699, 32.0462



19.2403, 18.9783, 2.6494



8.0977, 10.7558, 6.4474



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

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



12.1193, 23.1585, 3.8316



21.5630, 41.4002, 6.8545



11.7459, 22.9251, 5.6617



6.2615, 6.9922, 6.6255



10.0416, 19.1525, 3.1676



0.1783, 0.3009, 0.0487

Inverse Universe

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



13.0881, 6.0831, 30.6225



23.2669, 10.8050, 54.8312



16.2179, 8.0050, 16.8362



6.3191, 6.2504, 7.8024



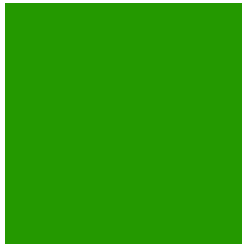
10.8465, 5.0426, 25.3094



0.1931, 0.0913, 0.3798

Previews

White Background



This preview shows how the XYZ color 12.1188, 23.1575, 3.8311 looks on a white 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

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

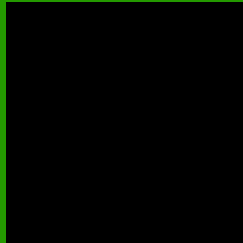
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.1188, 23.1575, 3.8311

Background



This preview shows how black text looks on a background with the XYZ color 12.1188, 23.1575, 3.8311.



This preview shows how white text looks on a background with the XYZ color 12.1188, 23.1575,

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

12.1188, 23.1575, 3.8311

Protanopia

20.4640, 22.7984, 3.3220

Deuteranopia

23.1252, 22.7764, 4.6163



Tritanopia

18.1782, 23.0568, 34.0642

Trichromacy



Original Color

12.1188, 23.1575, 3.8311

Protanomaly

15.4415, 21.8820, 3.4098

Deuteranomaly

16.2705, 21.2336, 3.9504

Tritanomaly

14.2871, 22.3694, 15.1200

Monochromacy



Original Color

12.1188, 23.1575, 3.8311

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

10.7025, 15.3809, 7.2552

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.1188, 23.1575, 3.8311 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(36, 153, 0)` looks like.

```
.text, #text, p{  
    color:rgb(36, 153, 0)  
}
```

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(36, 153, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(36, 153, 0) }
```

Border

The CSS property to change the border of an element to XYZ 12.1188, 23.1575, 3.8311 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(36, 153, 0) }
```


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

```
.border{ border-color:rgb(36, 153, 0) }
```

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

Here you see how a box with a 4 pixel rgb(36, 153, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(36, 153, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(36, 153, 0);  
box-shadow:4px 4px 4px 4px rgb(36, 153, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.1188, 23.1575, 3.8311 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(36, 153, 0) }
```

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

```
.background{ background-color: rgb(36, 153,  
0) }
```

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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