

Converting Colors

XYZ(12.3836, 23.1641, 1.4527)

Have a look what the booklet for
XYZ(12.3836, 23.1641, 1.4527)
contains.

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Color

**XYZ(12.8038, 23.2687,
3.8165)**

Conversions

Conversions Part 1

Format	Color
Hex	379800
RGB	55, 152, 0
RGB Percent	22%, 60%, 0%
CMY	0.7843, 0.4039, 0.9999
CMYK	0.64, 0.00, 1.00, 0.40
HSL	98°, 100%, 30%
HSV	98°, 100%, 60%
XYZ	12.8038, 23.2687, 3.8165
YIQ	105.6690, -9.0200, -67.8360

Conversions

Conversions Part 2

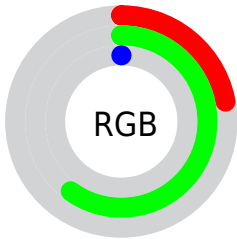
Format	Color
RYB	0, 152, 97
Decimal	3643392
CIELab	55.35, -51.22, 57.56
CIELCh	55, 77.051, 131.665
Yxy	23.2687, 0.3210, 0.5833
Android (android.graphics.Color)	4281833472 (0xFF379800)
YUV	105.6690, -52.0948, -44.4367
Hunter-Lab	48.2376, -37.0363, 29.0754

Details

The XYZ color **12.8038, 23.2687, 3.8165** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **10.5994, 4.8096, 30.0767**, and the grayscale version is **13.7496, 14.4657, 15.7531**.

A 20% lighter version of the original color is **30.4885, 48.7127, 13.5899**, and **4.5572, 9.1143, 1.5191** is the 20% darker color. If you saturate the color by 10%, you get **12.8038, 23.2694, 3.8166**, and if you desaturate by 10%, it is **13.4767, 23.6062, 4.3061**.

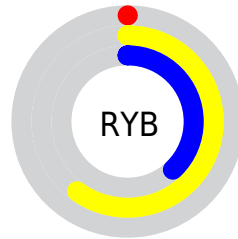
Distribution



Red (22%)

Green (60%)

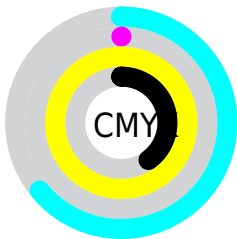
Blue (0%)



Red (0%)

Yellow (60%)

Blue (38%)

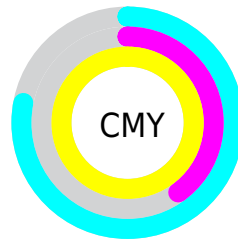


Cyan (64%)

Magenta (0%)

Yellow (100%)

Black (40%)



Cyan (78%)

Magenta (40%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8038, 23.2687, 3.8165 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 12.8038, 23.2687, 3.8165 by changing the saturation by 10% instead.

■ 12.8038, 23.2687,
3.8165

■ 12.8038, 23.2687,
3.8165

203.3195,
269.1021, 146.1634

■ 7.3696, 14.7920,
1.5252

■ 30.5552, 48.8342,
13.5843

■ 3.7427, 8.6736,
0.2366

■ 43.6031, 66.6917,
21.8979

■ 1.5576, 4.5289,
0.0000

■ 59.9197, 88.4451,
33.0560

■ 0.3646, 1.9736,
0.0000

■ 79.8702, 114.4786,
47.4772


■ 0.0000, 0.5921,
0.0000


■ 103.8201,
145.1767, 65.5800


■ 0.0000, 0.0000,
0.0000


■ 132.1348,


180.9237, 87.7829


 165.1794,
222.1040, 114.5046


 12.8038, 23.2687,
3.8165


 12.8038, 23.2687,
3.8165


 12.8038, 23.2694,
3.8166

 13.4767, 23.6062,
4.3061

 14.3235, 24.0252,
5.1386

 15.3797, 24.5413,
6.4714

 16.6621, 25.1617,
8.3672

 18.1854, 25.8930,
10.8795

■ 19.9630, 26.7409,
14.0555

■ 22.0071, 27.7109,
17.9380

■ 24.3290, 28.8078,
22.5659

■ 26.9395, 30.0365,
27.9754

Harmonies

Analogous

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



18.9225, 23.2687, 1.4636



12.8038, 23.2687, 3.8165



9.7920, 23.2687, 13.1167

Triad

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



12.8038, 23.2687, 3.8165



17.2883, 23.2687, 102.7209



42.7175, 23.2687, 16.8773

Complementary

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



12.8038, 23.2687, 3.8165



10.5994, 4.8096, 30.0767

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.



41.9459, 23.2687, 43.4562



12.8038, 23.2687, 3.8165



25.6505, 23.2687, 106.4092

Square

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



12.8038, 23.2687, 3.8165



11.8772, 23.2687, 71.9916



35.1098, 23.2687, 80.1380



37.0038, 23.2687, 5.0361

Rectangle

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



12.8038, 23.2687, 3.8165



9.3139, 23.2687, 26.7445



35.1098, 23.2687, 80.1380



43.2413, 23.2687, 23.9772

Sweetspot

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



12.8043, 23.2697, 3.8170



38.6160, 48.8029, 31.2192



17.1574, 15.0914, 2.0090



8.4484, 10.9366, 6.4638



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.



12.8043, 23.2697, 3.8170



22.4201, 40.9789, 6.7281



11.3576, 22.5090, 4.4210



6.3326, 7.0289, 6.6288



10.7668, 19.5264, 3.2015



0.1985, 0.3113, 0.0496

Inverse Universe

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



10.5994, 4.8096, 30.0767



18.5071, 8.3852, 53.0767



17.0965, 8.3347, 22.4435



6.2443, 6.2118, 7.7989



8.9211, 4.0500, 25.2192



0.1729, 0.0809, 0.3789

Previews

White Background



This preview shows how the XYZ color 12.8038, 23.2687, 3.8165 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



This preview shows how the XYZ color 12.8038, 23.2687, 3.8165 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

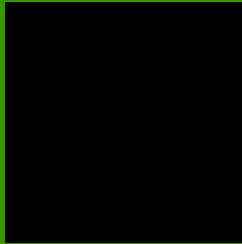
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.8038, 23.2687, 3.8165

Background



This preview shows how black text looks on a background with the XYZ color 12.8038, 23.2687, 3.8165.



This preview shows how white text looks on a background with the XYZ color 12.8038, 23.2687,

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

12.8038, 23.2687, 3.8165

Protanopia

20.6457, 22.8921, 3.3305

Deuteranopia

23.3202, 22.8785, 4.5534



Tritanopia

18.7543, 23.1435, 33.6157

Trichromacy



Original Color

12.8038, 23.2687, 3.8165

Protanomaly

16.3028, 22.1101, 3.4084

Deuteranomaly

17.3944, 21.8141, 3.9556

Tritanomaly

14.9556, 22.4916, 14.8623

Monochromacy



Original Color

12.8038, 23.2687, 3.8165

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

12.0266, 16.5974, 7.8799

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8038, 23.2687, 3.8165 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(55, 152, 0)` looks like.

```
.text, #text, p{  
    color:rgb(55, 152, 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(55, 152, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(55, 152, 0) }
```

Border

The CSS property to change the border of an element to XYZ 12.8038, 23.2687, 3.8165 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(55, 152, 0) }
```


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

```
.border{ border-color:rgb(55, 152, 0) }
```

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

Here you see how a box with a 4 pixel rgb(55, 152, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(55, 152, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(55, 152, 0);  
box-shadow:4px 4px 4px 4px rgb(55, 152, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.8038, 23.2687, 3.8165 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(55, 152, 0) }
```

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

```
.background{ background-color: rgb(55, 152,  
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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