

Converting Colors

XYZ(12.2857, 22.2352, 6.0985)

Have a look what the booklet for
XYZ(12.2857, 22.2352, 6.0985)
contains.

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Color

**XYZ(12.3033, 22.2422,
6.1274)**

Conversions

Conversions Part 1

Format	Color
Hex	2D952D
RGB	45, 149, 45
RGB Percent	18%, 58%, 18%
CMY	0.8235, 0.4157, 0.8235
CMYK	0.70, 0.00, 0.70, 0.42
HSL	120°, 54%, 38%
HSV	120°, 70%, 58%
XYZ	12.3033, 22.2422, 6.1274
YIQ	106.0480, -28.6000, -54.3920

Conversions

Conversions Part 2

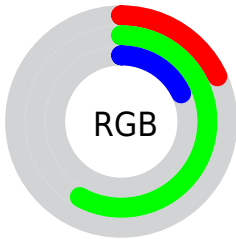
Format	Color
RYB	45, 149, 149
Decimal	2987309
CIELab	54.28, -50.02, 44.54
CIElCh	54, 66.970, 138.317
Yxy	22.2422, 0.3025, 0.5469
Android (android.graphics.Color)	4281177389 (0xFF2D952D)
YUV	106.0480, -30.0967, -53.5391
Hunter-Lab	47.1616, -35.9666, 25.3100

Details

The XYZ color **12.3033, 22.2422, 6.1274** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **18.7581, 10.4366, 29.4595**, and the grayscale version is **13.7989, 14.5175, 15.8095**.

A 20% lighter version of the original color is **29.6480, 47.0944, 18.5939**, and **4.2747, 8.5494, 1.4249** is the 20% darker color. If you saturate the color by 10%, you get **11.5219, 21.8675, 4.8489**, and if you desaturate by 10%, it is **13.4185, 22.7785, 7.9511**.

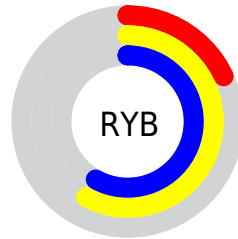
Distribution



Red (18%)

Green (58%)

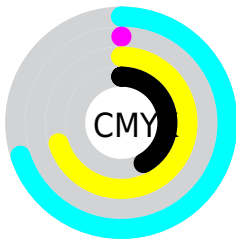
Blue (18%)



Red (18%)

Yellow (58%)

Blue (58%)

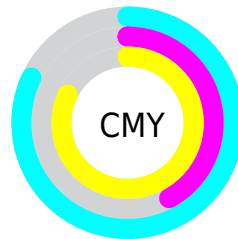


Cyan (70%)

Magenta (0%)

Yellow (70%)

Black (42%)



Cyan (82%)


Magenta (42%)


Yellow (82%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.3033, 22.2422, 6.1274 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 12.3033, 22.2422, 6.1274 by changing the saturation by 10% instead.


 12.3033, 22.2422,
6.1274


 12.3033, 22.2422,
6.1274


200.1322,
263.8085, 169.5482


 7.0243, 14.0350,
2.8527


 29.6584, 47.1460,
18.6770


 3.5237, 8.1450,
1.0199


 42.4652, 64.6113,
28.7889


 1.4364, 4.1879,
0.0000


 58.5119, 85.9315,
42.0169

 0.2819, 1.7792,
0.0000

 78.1639, 111.4909,
58.7797

 0.0000, 0.4742,
0.0000

 101.7866,
141.6739, 79.4956

 0.0000, 0.0000,
0.0000

 129.7453,

176.8649, 104.5834

162.4054,
217.4483, 134.4614

■ 12.3033, 22.2422,
6.1274

■ 12.3033, 22.2422,
6.1274

■ 11.5219, 21.8675,
4.8489

■ 13.4185, 22.7785,
7.9511

■ 11.0358, 21.6340,
4.0537

■ 14.8973, 23.4889,
10.3701

■ 10.7533, 21.4983,
3.5916

■ 16.7682, 24.3876,
13.4303

■ 10.7479, 21.4957,
3.5827

■ 19.0564, 25.4867,
17.1730

■ 21.7848, 26.7973,
21.6359

■ 24.9749, 28.3297,
26.8538

■ 28.6467, 30.0934,
32.8595

■ 32.8189, 32.0975,
39.6838

■ 37.5093, 34.3506,
47.3557

Harmonies

Analogous

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



17.0333, 22.2422, 2.6011



12.3033, 22.2422, 6.1274



10.1686, 22.2422, 16.9633

Triad

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



12.3033, 22.2422, 6.1274



18.4267, 22.2422, 88.6590



37.4390, 22.2422, 13.6637

Complementary

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



12.3033, 22.2422, 6.1274



18.7581, 10.4366, 29.4595

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.



38.0571, 22.2422, 33.2924



12.3033, 22.2422, 6.1274



25.8600, 22.2422, 85.8328

Square

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



12.3033, 22.2422, 6.1274



13.1205, 22.2422, 68.2858



33.4352, 22.2422, 61.9355



31.9019, 22.2422, 4.9047

Rectangle

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



12.3033, 22.2422, 6.1274



10.0810, 22.2422, 30.5030



33.4352, 22.2422, 61.9355



38.2690, 22.2422, 18.8617

Sweetspot

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



12.3038, 22.2431, 6.1279



38.1617, 47.5802, 37.3542



23.6164, 28.0750, 6.6570



8.1804, 10.4115, 7.8256



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896

Same Dimension

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



12.3038, 22.2431, 6.1279



20.0601, 38.8850, 7.7455



13.9879, 22.9167, 14.9959



5.7296, 6.4684, 6.1870



9.0455, 18.0910, 3.0153



0.1107, 0.2214, 0.0369

Inverse Universe

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



18.7581, 10.4366, 29.4595



32.4017, 16.3091, 52.3588



15.4911, 9.1298, 12.2555



6.0353, 5.9092, 7.2922



14.9971, 7.2039, 24.5297



0.1836, 0.0882, 0.3002

Previews

White Background



This preview shows how the XYZ color 12.3033, 22.2422, 6.1274 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 12.3033, 22.2422, 6.1274 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

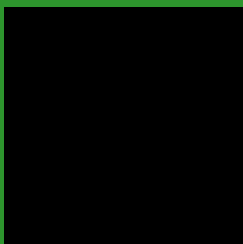
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.3033, 22.2422, 6.1274

Background



This preview shows how black text looks on a background with the XYZ color 12.3033, 22.2422, 6.1274.



This preview shows how white text looks on a background with the XYZ color 12.3033, 22.2422, 6.1274.

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

12.3033, 22.2422, 6.1274

Protanopia

19.7349, 21.7830, 5.1719

Deuteranopia

22.2460, 21.9058, 6.5458



Tritanopia

17.4853, 22.0837, 32.1952

Trichromacy



Original Color

12.3033, 22.2422, 6.1274



Protanomaly

15.4064, 20.9636, 5.4249



Deuteranomaly

16.3200, 20.5931, 6.2467



Tritanomaly

14.7970, 21.8715, 18.7710

Monochromacy



Original Color

12.3033, 22.2422, 6.1274



Achromatopsia

13.6994, 14.4128, 15.6956



Achromatomaly

12.2159, 16.4440, 10.9177

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3033, 22.2422, 6.1274 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(45, 149, 45)` looks like.

```
.text, #text, p{  
    color:rgb(45, 149, 45)  
}
```

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(45, 149, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 149, 45) }
```

Border

The CSS property to change the border of an element to XYZ 12.3033, 22.2422, 6.1274 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(45, 149, 45) }
```


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

```
.border{ border-color:rgb(45, 149, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 149, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 149, 45); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 149, 45);  
box-shadow:4px 4px 4px 4px rgb(45, 149,  
45) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3033, 22.2422, 6.1274 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 149, 45) }
```

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

```
.background{ background-color: rgb(45, 149,  
45) }
```

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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