

Converting Colors

XYZ(12.5068, 23.2318, 9.5688)

Have a look what the booklet for
XYZ(12.5068, 23.2318, 9.5688)
contains.

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Color

**XYZ(12.5218, 23.2376,
9.6197)**

Conversions

Conversions Part 1

Format	Color
Hex	029946
RGB	2, 153, 70
RGB Percent	1%, 60%, 27%
CMY	0.9921, 0.4000, 0.7255
CMYK	0.99, 0.00, 0.54, 0.40
HSL	147°, 97%, 30%
HSV	147°, 99%, 60%
XYZ	12.5218, 23.2376, 9.6197
YIQ	98.3890, -63.3530, -57.8250

Conversions

Conversions Part 2

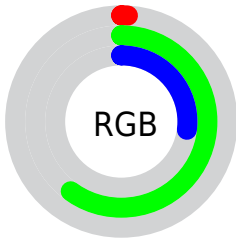
Format	Color
RYB	2, 106, 153
Decimal	170310
CIELab	55.32, -52.98, 33.88
CIELCh	55, 62.888, 147.400
Yxy	23.2376, 0.2759, 0.5121
Android (android.graphics.Color)	4278360390 (0xFF029946)
YUV	98.3890, -13.9958, -84.5332
Hunter-Lab	48.2054, -37.9924, 21.9121

Details

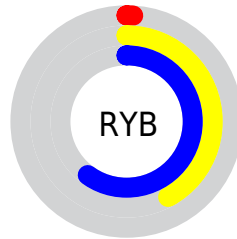
The XYZ color **12.5218, 23.2376, 9.6197** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **14.7992, 7.4721, 9.2582**, and the grayscale version is **11.7526, 12.3646, 13.4651**.

A 20% lighter version of the original color is **30.1211, 48.9832, 25.6365**, and **4.7020, 9.1723, 2.2817** is the 20% darker color. If you saturate the color by 10%, you get **12.4627, 23.2118, 9.4373**, and if you desaturate by 10%, it is **13.0184, 23.4614, 11.1279**.

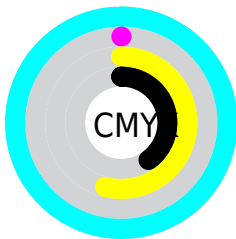
Distribution



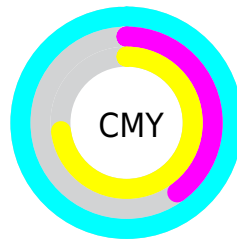
- Red (1%)
- Green (60%)
- Blue (27%)



- Red (1%)
- Yellow (42%)
- Blue (60%)



- Cyan (99%)
- Magenta (0%)
- Yellow (54%)
- Black (40%)





- Cyan (99%)
- Magenta (40%)
- Yellow (73%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.5218, 23.2376, 9.6197 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 12.5218, 23.2376, 9.6197 by changing the saturation by 10% instead.


 12.5218, 23.2376,
9.6197


 12.5218, 23.2376,
9.6197


201.5299,
268.9430, 198.3210


 7.1748, 14.7690,
5.0453


 30.0506, 48.7832,
25.6742


 3.6190, 8.6575,
2.2146


 42.9632, 66.6290,
37.9914


 1.4889, 4.5184,
0.6828

 59.1283, 88.3693,
53.7265

 0.3183, 1.9676,
0.0000

 78.9114, 114.3886,
73.2982

 0.0000, 0.5885,
0.0000

 102.6777,
145.0712, 97.1250

 0.0000, 0.0000,
0.0000

 130.7927,

180.8016, 125.6253

163.6216,
221.9640, 159.2178

■ 12.5218, 23.2376,
9.6197

■ 12.5218, 23.2376,
9.6197

■ 12.4627, 23.2118,
9.4373

■ 13.0184, 23.4614,
11.1279

■ 13.7195, 23.7855,
12.8469

■ 14.6825, 24.2400,
14.7871

■ 15.9355, 24.8393,
16.9566

■ 17.5031, 25.5957,
19.3630

■ 19.4066, 26.5203,
22.0136

■ 21.6659, 27.6232,
24.9152

■ 24.2990, 28.9134,
28.0745

■ 27.3227, 30.3995,
31.4978

Harmonies

Analogous

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



16.4172, 23.2376, 4.1166



12.5218, 23.2376, 9.6197



11.1239, 23.2376, 23.5813

Triad

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



12.5218, 23.2376, 9.6197



21.4774, 23.2376, 87.2743



36.4399, 23.2376, 11.3109

Complementary

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



12.5218, 23.2376, 9.6197



14.7992, 7.4721, 9.2582

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.



38.5845, 23.2376, 27.1040



12.5218, 23.2376, 9.6197



28.9307, 23.2376, 77.7887

Square

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



12.5218, 23.2376, 9.6197



15.5587, 23.2376, 74.1243



35.5880, 23.2376, 52.5113



30.2246, 23.2376, 4.6640

Rectangle

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



12.5218, 23.2376, 9.6197



11.5122, 23.2376, 38.7775



35.5880, 23.2376, 52.5113



37.7116, 23.2376, 15.3774

Sweetspot

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



12.5224, 23.2385, 9.6202



37.9785, 49.0665, 43.5937



15.1540, 24.7216, 4.0307



8.0356, 10.6632, 9.1796



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.



12.5224, 23.2385, 9.6202



22.2275, 41.5317, 16.4214



16.5627, 24.8547, 30.8960



6.2420, 6.9695, 7.1977



10.3162, 19.1899, 7.8859



0.1722, 0.2941, 0.2126

Inverse Universe

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



14.7992, 7.4721, 9.2582



26.3049, 13.2397, 15.7312



13.2115, 6.8371, 0.8978



6.3437, 6.2766, 7.1901



12.2003, 6.1343, 7.5796



0.2007, 0.0990, 0.2098

Previews

White Background



This preview shows how the XYZ color 12.5218, 23.2376, 9.6197 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 12.5218, 23.2376, 9.6197 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 12.5218, 23.2376, 9.6197

Background



This preview shows how black text looks on a background with the XYZ color 12.5218, 23.2376, 9.6197.



This preview shows how white text looks on a background with the XYZ color 12.5218, 23.2376,

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

12.5218, 23.2376, 9.6197

Protanopia

21.0025, 22.9724, 8.0298

Deuteranopia

23.2976, 22.9311, 10.2194



Tritanopia

17.8375, 23.3075, 35.0111

Trichromacy



Original Color

12.5218, 23.2376, 9.6197



Protanomaly

14.9775, 21.5292, 8.5204



Deuteranomaly

15.6337, 20.9863, 9.7053



Tritanomaly

14.9721, 22.7794, 23.0098

Monochromacy



Original Color

12.5218, 23.2376, 9.6197



Achromatopsia

11.6093, 12.2139, 13.3009



Achromatomaly

10.2898, 14.7182, 11.5311

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.5218, 23.2376, 9.6197 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(2, 153, 70)` looks like.

```
.text, #text, p{  
    color:rgb(2, 153, 70)  
}
```

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(2, 153, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(2, 153, 70) }
```

Border

The CSS property to change the border of an element to XYZ 12.5218, 23.2376, 9.6197 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(2, 153, 70) }
```


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

```
.border{ border-color:rgb(2, 153, 70) }
```

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

Here you see how a box with a 4 pixel rgb(2, 153, 70) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(2, 153, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(2, 153, 70);  
box-shadow:4px 4px 4px 4px rgb(2, 153, 70)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.5218, 23.2376, 9.6197 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(2, 153, 70) }
```

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

```
.background{ background-color: rgb(2, 153,  
70) }
```

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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