

Converting Colors

XYZ(12.1688, 22.7604, 8.8401)

Have a look what the booklet for
XYZ(12.1688, 22.7604, 8.8401)
contains.

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Color

**XYZ(12.2241, 22.8563,
8.9217)**

Conversions

Conversions Part 1

Format	Color
Hex	019842
RGB	1, 152, 66
RGB Percent	0%, 60%, 26%
CMY	0.9961, 0.4039, 0.7412
CMYK	0.99, 0.00, 0.57, 0.40
HSL	146°, 99%, 30%
HSV	146°, 99%, 60%
XYZ	12.2241, 22.8563, 8.9217
YIQ	97.0470, -62.3900, -58.7580

Conversions

Conversions Part 2

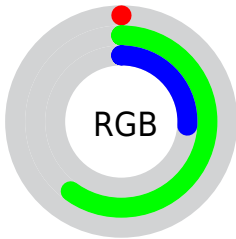
Format	Color
RYB	1, 107, 152
Decimal	104514
CIELab	54.92, -53.32, 35.41
CIElCh	55, 64.012, 146.409
Yxy	22.8563, 0.2778, 0.5194
Android (android.graphics.Color)	4278294594 (0xFF019842)
YUV	97.0470, -15.3062, -84.2332
Hunter-Lab	47.8083, -38.0238, 22.4014

Details

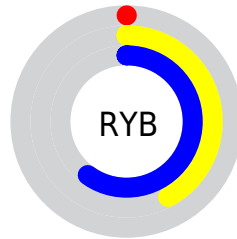
The XYZ color **12.2241, 22.8563, 8.9217** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **14.6806, 7.3855, 9.6687**, and the grayscale version is **11.4217, 12.0165, 13.0859**.

A 20% lighter version of the original color is **29.6387, 48.3989, 24.3028**, and **4.5554, 8.9611, 1.9798** is the 20% darker color. If you saturate the color by 10%, you get **12.1954, 22.8441, 8.8336**, and if you desaturate by 10%, it is **12.7042, 23.0727, 10.3796**.

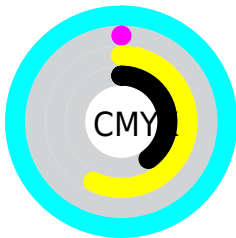
Distribution



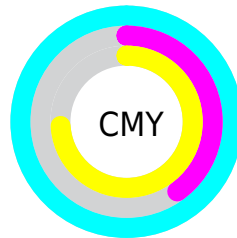
- Red (0%)
- Green (60%)
- Blue (26%)



- Red (0%)
- Yellow (42%)
- Blue (60%)



- Cyan (99%)
- Magenta (0%)
- Yellow (57%)
- Black (40%)



- Cyan (100%)
- Magenta (40%)
- Yellow (74%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2241, 22.8563, 8.9217 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 12.2241, 22.8563, 8.9217 by changing the saturation by 10% instead.

■ 12.2241, 22.8563,
8.9217

■ 12.2241, 22.8563,
8.9217

199.6231,
266.9861, 192.9892

■ 6.9698, 14.4874,
4.5940

■ 29.5159, 48.1573,
24.3218

■ 3.4894, 8.4605,
1.9566

■ 42.2841, 65.8582,
36.2314

■ 1.4175, 4.3910,
0.5284

■ 58.2877, 87.4385,
51.5053

■ 0.2687, 1.8946,
0.0000

■ 77.8920, 113.2827,
70.5621

■ 0.0000, 0.5451,
0.0000

■ 101.4623,
143.7752, 93.8203

■ 0.0000, 0.0000,
0.0000

■ 129.3640,

179.3003, 121.6986

161.9625,
220.2425, 154.6154

■ 12.2241, 22.8563,
8.9217

■ 12.2241, 22.8563,
8.9217

■ 12.1954, 22.8441,
8.8336

■ 12.7042, 23.0727,
10.3796

■ 13.3795, 23.3844,
12.0563

■ 14.3133, 23.8245,
13.9633

■ 15.5338, 24.4075,
16.1096

■ 17.0652, 25.1456,
18.5034

■ 18.9292, 26.0498,
21.1527

■ 21.1454, 27.1301,
24.0649

■ 23.7317, 28.3956,
27.2473

■ 26.7049, 29.8549,
30.7067

Harmonies

Analogous

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



16.2023, 22.8563, 3.7294



12.2241, 22.8563, 8.9217



10.7525, 22.8563, 22.5183

Triad

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



12.2241, 22.8563, 8.9217



20.8807, 22.8563, 87.8194



36.3819, 22.8563, 11.2368

Complementary

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



12.2241, 22.8563, 8.9217



14.6806, 7.3855, 9.6687

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.



38.3883, 22.8563, 27.4155



12.2241, 22.8563, 8.9217



28.3767, 22.8563, 78.8664

Square

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



12.2241, 22.8563, 8.9217



15.0151, 22.8563, 73.7024



35.1899, 22.8563, 53.3760



30.1826, 22.8563, 4.4634

Rectangle

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



12.2241, 22.8563, 8.9217



11.0870, 22.8563, 37.6404



35.1899, 22.8563, 53.3760



37.6202, 22.8563, 15.3982

Sweetspot

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



12.2247, 22.8572, 8.9222



36.8017, 47.6312, 41.8115



15.3622, 24.5876, 3.9649



8.0096, 10.6528, 9.0426



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.



12.2247, 22.8572, 8.9222



21.4398, 40.2863, 15.1414



15.9321, 24.3402, 28.4455



6.2370, 6.9675, 7.1715



10.2402, 19.1595, 7.4854



0.1708, 0.2935, 0.2053

Inverse Universe

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



14.6806, 7.3855, 9.6687



25.7711, 12.9488, 16.4198



13.0368, 6.7280, 1.0123



6.3488, 6.2787, 7.2166



12.3008, 6.1746, 8.1090



0.2021, 0.0996, 0.2171

Previews

White Background



This preview shows how the XYZ color 12.2241, 22.8563, 8.9217 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 12.2241, 22.8563, 8.9217 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 12.2241, 22.8563, 8.9217

Background



This preview shows how black text looks on a background with the XYZ color 12.2241, 22.8563, 8.9217.



This preview shows how white text looks on a background with the XYZ color 12.2241, 22.8563,

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

12.2241, 22.8563, 8.9217

Protanopia

20.5828, 22.5681, 7.4089

Deuteranopia

22.8343, 22.5192, 9.4465



Tritanopia

17.5187, 22.9387, 34.0761

Trichromacy



Original Color

12.2241, 22.8563, 8.9217



Protanomaly

14.6163, 21.1402, 7.8675



Deuteranomaly

15.2490, 20.5949, 8.9659



Tritanomaly

14.6284, 22.3942, 21.9639

Monochromacy



Original Color

12.2241, 22.8563, 8.9217



Achromatopsia

11.3621, 11.9538, 13.0177



Achromatomaly

10.0276, 14.4186, 11.0587

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2241, 22.8563, 8.9217 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(1, 152, 66)` looks like.

```
.text, #text, p{  
    color:rgb(1, 152, 66)  
}
```

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(1, 152, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(1, 152, 66) }
```

Border

The CSS property to change the border of an element to XYZ 12.2241, 22.8563, 8.9217 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(1, 152, 66) }
```


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

```
.border{ border-color:rgb(1, 152, 66) }
```

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

Here you see how a box with a 4 pixel `rgb(1, 152, 66)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(1, 152, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(1, 152, 66);  
box-shadow:4px 4px 4px 4px rgb(1, 152, 66)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.2241, 22.8563, 8.9217 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(1, 152, 66) }
```

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

```
.background{ background-color: rgb(1, 152,  
66) }
```

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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