

Converting Colors

XYZ(12.8845, 22.0828, 15.0923)

Have a look what the booklet for
XYZ(12.8845, 22.0828, 15.0923)
contains.

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Color

**XYZ(12.9072, 22.1197,
15.1445)**

Conversions

Conversions Part 1

Format	Color
Hex	099462
RGB	9, 148, 98
RGB Percent	4%, 58%, 38%
CMY	0.9646, 0.4196, 0.6157
CMYK	0.94, 0.00, 0.34, 0.42
HSL	158°, 89%, 31%
HSV	158°, 94%, 58%
XYZ	12.9072, 22.1197, 15.1445
YIQ	100.7390, -66.7940, -45.0180

Conversions

Conversions Part 2

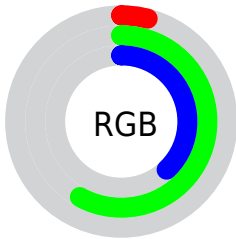
Format	Color
RYB	9, 94, 148
Decimal	627810
CIELab	54.15, -45.39, 17.33
CIELCh	54, 48.582, 159.101
Yxy	22.1197, 0.2573, 0.4409
Android (android.graphics.Color)	4278817890 (0xFF099462)
YUV	100.7390, -1.3503, -80.4551
Hunter-Lab	47.0316, -33.3183, 13.8303

Details

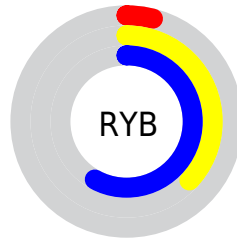
The XYZ color **12.9072, 22.1197, 15.1445** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **13.1008, 6.8077, 4.7633**, and the grayscale version is **12.3194, 12.9610, 14.1145**.

A 20% lighter version of the original color is **30.7112, 46.9080, 35.8693**, and **4.7804, 8.6048, 4.5409** is the 20% darker color. If you saturate the color by 10%, you get **12.6449, 22.0024, 14.3494**, and if you desaturate by 10%, it is **13.4271, 22.3583, 16.5258**.

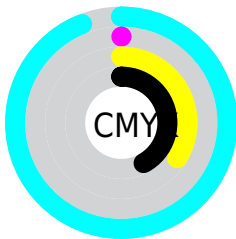
Distribution



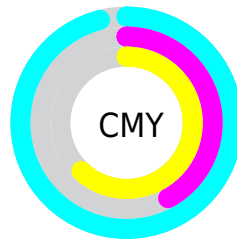
- Red (4%)
- Green (58%)
- Blue (38%)



- Red (4%)
- Yellow (37%)
- Blue (58%)



- Cyan (94%)
- Magenta (0%)
- Yellow (34%)
- Black (42%)



- Cyan (96%)
- Magenta (42%)
- Yellow (62%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9072, 22.1197, 15.1445 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 12.9072, 22.1197, 15.1445 by changing the saturation by 10% instead.

■ 12.9072, 22.1197,
15.1445

■ 12.9072, 22.1197,
15.1445

203.9717,
263.1707, 235.9100

■ 7.4412, 13.9449,
8.7731

■ 30.7397, 46.9438,
35.8524

■ 3.7883, 8.0823,
4.4987

■ 43.8369, 64.3618,
51.0259

■ 1.5831, 4.1477,
1.9027

■ 60.2087, 85.6297,
69.9706

■ 0.3813, 1.7565,
0.4945

■ 80.2202, 111.1318,
93.1050

■ 0.0000, 0.4598,
0.0000

■ 104.2369,
141.2526, 120.8476

■ 0.0000, 0.0000,
0.0000

■ 132.6242,

176.3764, 153.6169

165.7473,
216.8877, 191.8315

■ 12.9072, 22.1197,
15.1445

■ 12.9072, 22.1197,
15.1445

■ 12.6449, 22.0024,
14.3494

■ 13.4271, 22.3583,
16.5258

■ 14.1540, 22.7010,
18.0052

■ 15.1162, 23.1631,
19.5862

■ 16.3370, 23.7564,
21.2714

■ 17.8366, 24.4913,
23.0633

■ 19.6332, 25.3773,
24.9643

■ 21.7434, 26.4228,
26.9764

■ 24.1826, 27.6357,
29.1019

■ 26.9650, 29.0234,
31.3428

Harmonies

Analogous

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



15.2588, 22.1197, 7.8536



12.9072, 22.1197, 15.1445



12.5217, 22.1197, 28.9728

Triad

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



12.9072, 22.1197, 15.1445



22.6680, 22.1197, 65.6079



29.9092, 22.1197, 10.0263

Complementary

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



12.9072, 22.1197, 15.1445



13.1008, 6.8077, 4.7633

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.



32.7012, 22.1197, 19.7797



12.9072, 22.1197, 15.1445



28.0846, 22.1197, 54.3555

Square

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



12.9072, 22.1197, 15.1445



17.6125, 22.1197, 62.6423



31.9828, 22.1197, 35.9913



24.8501, 22.1197, 5.8735

Rectangle

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



12.9072, 22.1197, 15.1445



13.3547, 22.1197, 41.1358



31.9828, 22.1197, 35.9913



31.1794, 22.1197, 12.5478

Sweetspot

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



12.9078, 22.1206, 15.1450



36.5620, 45.7265, 45.9214



12.5017, 22.1602, 3.8773



8.0184, 10.2760, 10.1651



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.



12.9078, 22.1206, 15.1450



22.2260, 38.7870, 24.8733



13.3707, 18.0212, 30.7917



5.8764, 6.5272, 6.9602



10.8137, 18.7983, 12.3263



0.1465, 0.2357, 0.2253

Inverse Universe

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



13.1008, 6.8077, 4.7633



22.6168, 11.5360, 6.6327



12.6671, 7.1250, 0.9665



5.8819, 5.8478, 6.4841



10.9975, 5.6040, 3.4676



0.1478, 0.0739, 0.1118

Previews

White Background



This preview shows how the XYZ color 12.9072, 22.1197, 15.1445 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 12.9072, 22.1197, 15.1445 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 12.9072, 22.1197, 15.1445

Background



This preview shows how black text looks on a background with the XYZ color 12.9072, 22.1197, 15.1445.



This preview shows how white text looks on a background with the XYZ color 12.9072, 22.1197,

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

12.9072, 22.1197, 15.1445

Protanopia

20.3432, 21.9277, 12.8331

Deuteranopia

22.2840, 21.8988, 16.1491



Tritanopia

16.6908, 22.0797, 33.5191

Trichromacy



Original Color

12.9072, 22.1197, 15.1445



Protanomaly

15.1936, 20.6739, 13.5456



Deuteranomaly

15.9314, 20.3870, 15.6658



Tritanomaly

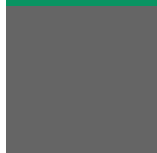
14.9345, 22.0150, 25.6525

Monochromacy



Original Color

12.9072, 22.1197, 15.1445



Achromatopsia

12.3695, 13.0136, 14.1719



Achromatomaly

11.1626, 15.1059, 14.3840

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9072, 22.1197, 15.1445 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(9, 148, 98)` looks like.

```
.text, #text, p{  
    color:rgb(9, 148, 98)  
}
```

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(9, 148, 98) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(9, 148, 98) }
```

Border

The CSS property to change the border of an element to XYZ 12.9072, 22.1197, 15.1445 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(9, 148, 98) }
```


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

```
.border{ border-color:rgb(9, 148, 98) }
```

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

Here you see how a box with a 4 pixel `rgb(9, 148, 98)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(9, 148, 98); -webkit-box-  
shadow:4px 4px 4px 4px rgb(9, 148, 98);  
box-shadow:4px 4px 4px 4px rgb(9, 148, 98)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.9072, 22.1197, 15.1445 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(9, 148, 98) }
```

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

```
.background{ background-color: rgb(9, 148,  
98) }
```

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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