

Converting Colors

XYZ(12.9769, 24.0917, 10.0664)

Have a look what the booklet for
XYZ(12.9769, 24.0917, 10.0664)
contains.

XYZ(13.0582, 24.2448, 10.1224)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(13.0582, 24.2448,
10.1224)**

Conversions

Conversions Part 1

Format	Color
Hex	009C48
RGB	0, 156, 72
RGB Percent	0%, 61%, 28%
CMY	1.0000, 0.3882, 0.7176
CMYK	1.00, 0.00, 0.54, 0.39
HSL	148°, 100%, 31%
HSV	148°, 100%, 61%
XYZ	13.0582, 24.2448, 10.1224
YIQ	99.7800, -66.0120, -59.1960

Conversions

Conversions Part 2

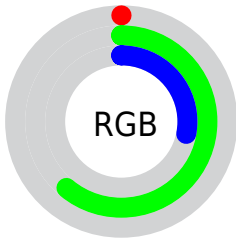
Format	Color
RYB	0, 107, 156
Decimal	40008
CIELab	56.33, -53.78, 34.11
CIELCh	56, 63.682, 147.615
Yxy	24.2448, 0.2753, 0.5112
Android (android.graphics.Color)	4278230088 (0xFF009C48)
YUV	99.7800, -13.6955, -87.5071
Hunter-Lab	49.2390, -38.8300, 22.2787

Details

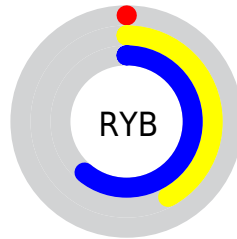
The XYZ color **13.0582, 24.2448, 10.1224** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **15.3115, 7.7086, 9.0702**, and the grayscale version is **12.1039, 12.7342, 13.8676**.

A 20% lighter version of the original color is **31.0808, 50.5668, 26.5346**, and **5.0049, 9.7624, 2.4311** is the 20% darker color. If you saturate the color by 10%, you get **13.0585, 24.2457, 10.1221**, and if you desaturate by 10%, it is **13.5589, 24.4697, 11.6762**.

Distribution



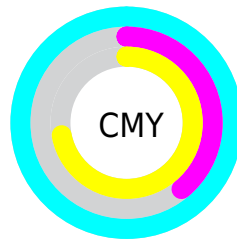
- Red (0%)
- Green (61%)
- Blue (28%)



- Red (0%)
- Yellow (42%)
- Blue (61%)



- Cyan (100%)
- Magenta (0%)
- Yellow (54%)
- Black (39%)





- Cyan (100%)
- Magenta (39%)
- Yellow (72%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 13.0582, 24.2448, 10.1224 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 13.0582, 24.2448, 10.1224 by changing the saturation by 10% instead.


 13.0582, 24.2448,
10.1224

 13.0582, 24.2448,
10.1224


204.9204,
274.0558, 202.0599


 7.5459, 15.5153,
5.3735


 31.0087, 50.4294,
26.6369


 3.8551, 9.1818,
2.4055


 44.1777, 68.6533,
39.2396


 1.6205, 4.8600,
0.7894

 60.6296, 90.8107,
55.2973

 0.4057, 2.1653,
0.0000

 80.7297, 117.2862,
75.2285

 0.0000, 0.7010,
0.0000

 104.8435,
148.4640, 99.4519

 0.0000, 0.0000,
0.0000

 133.3364,

184.7287, 128.3858

166.5735,
226.4644, 162.4490

■ 13.0582, 24.2448,
10.1224

■ 13.0582, 24.2448,
10.1224

■ 13.0585, 24.2457,
10.1221

■ 13.5589, 24.4697,
11.6762

■ 14.2552, 24.7904,
13.4417

■ 15.2196, 25.2445,
15.4297

■ 16.4823, 25.8476,
17.6485

■ 18.0692, 26.6130,
20.1055

■ 20.0032, 27.5522,
22.8082

■ 22.3051, 28.6758,
25.7632

■ 24.9941, 29.9937,
28.9773

■ 28.0878, 31.5147,
32.4567

Harmonies

Analogous

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



17.0989, 24.2448, 4.3332



13.0582, 24.2448, 10.1224



11.6190, 24.2448, 24.7509

Triad

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



13.0582, 24.2448, 10.1224



22.4613, 24.2448, 90.9235



37.9570, 24.2448, 11.7403

Complementary

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



13.0582, 24.2448, 10.1224



15.3115, 7.7086, 9.0702

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.



40.2272, 24.2448, 28.1175



13.0582, 24.2448, 10.1224



30.2284, 24.2448, 80.8904

Square

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



13.0582, 24.2448, 10.1224



16.2781, 24.2448, 77.3914



37.1432, 24.2448, 54.5226



31.4646, 24.2448, 4.8576

Rectangle

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



13.0582, 24.2448, 10.1224



12.0356, 24.2448, 40.6247



37.1432, 24.2448, 54.5226



39.2924, 24.2448, 15.9543

Sweetspot

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



13.0588, 24.2458, 10.1230



40.2409, 51.9495, 46.4568



15.7088, 25.7470, 4.1420



8.4816, 11.2488, 9.7522



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



13.0588, 24.2458, 10.1230



23.6200, 43.9966, 17.8721



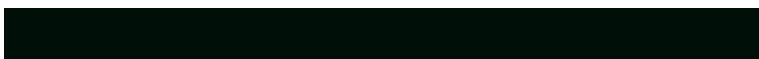
17.2504, 25.9224, 32.1956



6.6717, 7.4494, 7.7058



10.7730, 19.9771, 8.4277



0.2138, 0.3657, 0.2621

Inverse Universe

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



15.3115, 7.7086, 9.0702



27.7082, 13.9599, 15.9434



13.7537, 7.0855, 0.8670



6.7749, 6.7029, 7.6656



12.6290, 6.3562, 7.5631



0.2471, 0.1222, 0.2471

Previews

White Background



This preview shows how the XYZ color 13.0582, 24.2448, 10.1224 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 13.0582, 24.2448, 10.1224 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 13.0582, 24.2448, 10.1224

Background



This preview shows how black text looks on a background with the XYZ color 13.0582, 24.2448, 10.1224.



This preview shows how white text looks on a background with the XYZ color 13.0582, 24.2448,

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

13.0582, 24.2448, 10.1224

Protanopia

21.8737, 23.8214, 8.4462

Deuteranopia

24.2347, 23.7894, 10.7116



Tritanopia

18.6162, 24.3627, 36.5222

Trichromacy



Original Color

13.0582, 24.2448, 10.1224



Protanomaly

15.4357, 22.1963, 8.9396



Deuteranomaly

16.1019, 21.6418, 10.1661



Tritanomaly

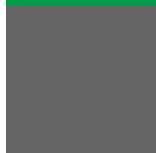
15.5738, 23.7763, 23.8471

Monochromacy



Original Color

13.0582, 24.2448, 10.1224



Achromatopsia

12.1130, 12.7438, 13.8780



Achromatomaly

10.6763, 15.2611, 12.0559

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.0582, 24.2448, 10.1224 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(0, 156, 72)` looks like.

```
.text, #text, p{  
    color:rgb(0, 156, 72)  
}
```

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(0, 156, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 156, 72) }
```

Border

The CSS property to change the border of an element to XYZ 13.0582, 24.2448, 10.1224 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(0, 156, 72) }
```


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

```
.border{ border-color:rgb(0, 156, 72) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 156, 72)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 156, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 156, 72);  
box-shadow:4px 4px 4px 4px rgb(0, 156, 72)  
}
```

Background

The CSS property to change the background color of an element to XYZ 13.0582, 24.2448, 10.1224 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 156, 72) }
```

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

```
.background{ background-color: rgb(0, 156,  
72) }
```

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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