

Converting Colors

XYZ(6.4078, 21.2945, 7.4239)

Have a look what the booklet for
XYZ(6.4078, 21.2945, 7.4239)
contains.

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Color

**XYZ(12.9164, 24.7296,
7.7069)**

Conversions

Conversions Part 1

Format	Color
Hex	009E37
RGB	0, 158, 55
RGB Percent	0%, 62%, 22%
CMY	1.0000, 0.3804, 0.7843
CMYK	1.00, 0.00, 0.65, 0.38
HSL	141°, 100%, 31%
HSV	141°, 100%, 62%
XYZ	12.9164, 24.7296, 7.7069
YIQ	99.0160, -61.1050, -65.5290

Conversions

Conversions Part 2

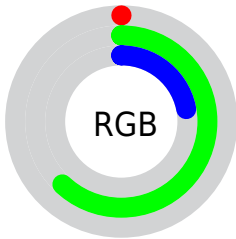
Format	Color
RYB	0, 117, 158
Decimal	40503
CIELab	56.81, -56.78, 42.80
CIELCh	57, 71.106, 142.988
Yxy	24.7296, 0.2848, 0.5453
Android (android.graphics.Color)	4278230583 (0xFF009E37)
YUV	99.0160, -21.6999, -86.8370
Hunter-Lab	49.7289, -40.6626, 25.6215

Details

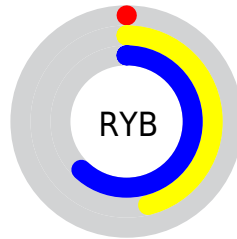
The XYZ color **12.9164, 24.7296, 7.7069** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **16.5494, 8.2487, 13.5520**, and the grayscale version is **11.9282, 12.5494, 13.6663**.

A 20% lighter version of the original color is **30.7679, 51.2576, 21.9077**, and **5.0516, 10.1032, 1.6839** is the 20% darker color. If you saturate the color by 10%, you get **12.9170, 24.7306, 7.7075**, and if you desaturate by 10%, it is **13.4006, 24.9484, 9.1564**.

Distribution



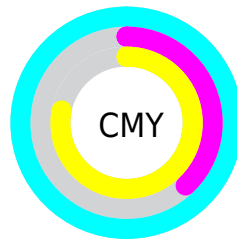
- Red (0%)
- Green (62%)
- Blue (22%)



- Red (0%)
- Yellow (46%)
- Blue (62%)



- Cyan (100%)
- Magenta (0%)
- Yellow (65%)
- Black (38%)





- Cyan (100%)
- Magenta (38%)
- Yellow (78%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.9164, 24.7296, 7.7069 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 12.9164, 24.7296, 7.7069 by changing the saturation by 10% instead.


 12.9164, 24.7296,
7.7069


 12.9164, 24.7296,
7.7069

204.0296,
276.4886, 183.2626


 7.4476, 15.8757,
3.8229


 30.7561, 51.2182,
21.9184


 3.7924, 9.4362,
1.5287


 43.8577, 69.6217,
33.0830


 1.5854, 5.0268,
0.2392

 60.2343, 91.9773,
47.5116

 0.3828, 2.2630,
0.0000

 80.2513, 118.6692,
65.6226

 0.0000, 0.7540,
0.0000

 104.2739,
150.0819, 87.8347

 0.0000, 0.0000,
0.0000

 132.6676,

186.5997, 114.5664

165.7978,
228.6072, 146.2362

■ 12.9164, 24.7296,
7.7069

■ 12.9164, 24.7296,
7.7069

■ 12.9170, 24.7306,
7.7075

■ 13.4006, 24.9484,
9.1564

■ 14.1015, 25.2718,
10.9000

■ 15.0940, 25.7390,
12.9562

■ 16.4108, 26.3664,
15.3397

■ 18.0797, 27.1682,
18.0643

■ 20.1255, 28.1568,
21.1430

■ 22.5705, 29.3435,
24.5882

■ 25.4354, 30.7388,
28.4114

■ 28.7394, 32.3522,
32.6238

Harmonies

Analogous

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



17.8013, 24.7296, 2.9511



12.9164, 24.7296, 7.7069



10.9465, 24.7296, 21.7178

Triad

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



12.9164, 24.7296, 7.7069



21.6078, 24.7296, 102.6531



41.4932, 24.7296, 12.7188

Complementary

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



12.9164, 24.7296, 7.7069



16.5494, 8.2487, 13.5520

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.



43.1945, 24.7296, 32.9074



12.9164, 24.7296, 7.7069



30.3123, 24.7296, 94.8289

Square

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



12.9164, 24.7296, 7.7069



15.1394, 24.7296, 82.4777



38.7090, 24.7296, 64.9293



34.4936, 24.7296, 4.4242

Rectangle

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



12.9164, 24.7296, 7.7069



11.1212, 24.7296, 38.5739



38.7090, 24.7296, 64.9293



42.7621, 24.7296, 17.8968

Sweetspot

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



12.9170, 24.7306, 7.7075



40.7052, 53.1489, 44.2647



18.0926, 27.4784, 4.3503



8.7631, 11.7813, 9.4043



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444

Same Dimension

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



12.9170, 24.7306, 7.7075



23.3705, 44.8745, 13.5441



16.3696, 26.1117, 25.8886



6.6413, 7.4373, 7.5459



10.3620, 19.8127, 6.2631



0.2043, 0.3619, 0.2120

Inverse Universe

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



16.5494, 8.2487, 13.5520



29.9550, 14.9400, 24.0967



14.2914, 7.3455, 1.6615



6.8060, 6.7153, 7.8294



13.2729, 6.6137, 10.9538



0.2566, 0.1260, 0.2972

Previews

White Background



This preview shows how the XYZ color 12.9164, 24.7296, 7.7069 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 12.9164, 24.7296, 7.7069 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 12.9164, 24.7296, 7.7069

Background



This preview shows how black text looks on a background with the XYZ color 12.9164, 24.7296, 7.7069.



This preview shows how white text looks on a background with the XYZ color 12.9164, 24.7296,

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

12.9164, 24.7296, 7.7069

Protanopia

22.1210, 24.4094, 6.4513

Deuteranopia

24.7120, 24.2862, 8.2357



Tritanopia

19.0494, 24.8079, 37.0421

Trichromacy



Original Color

12.9164, 24.7296, 7.7069



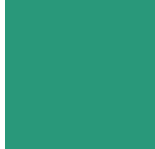
Protanomaly

15.3947, 22.6723, 6.6968



Deuteranomaly

16.1642, 22.1573, 7.8397



Tritanomaly

15.6555, 24.3330, 22.2840

Monochromacy



Original Color

12.9164, 24.7296, 7.7069



Achromatopsia

11.8596, 12.4772, 13.5877



Achromatomaly

10.3277, 15.1142, 10.5566

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9164, 24.7296, 7.7069 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, 158, 55)` looks like.

```
.text, #text, p{  
    color:rgb(0, 158, 55)  
}
```

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, 158, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 158, 55) }
```

Border

The CSS property to change the border of an element to XYZ 12.9164, 24.7296, 7.7069 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, 158, 55) }
```


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

```
.border{ border-color:rgb(0, 158, 55) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 158, 55)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 158, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 158, 55);  
box-shadow:4px 4px 4px 4px rgb(0, 158, 55)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.9164, 24.7296, 7.7069 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 158, 55) }
```

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

```
.background{ background-color: rgb(0, 158,  
55) }
```

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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