

Converting Colors

XYZ(12.8500, 24.7303, 7.2729)

Have a look what the booklet for
XYZ(12.8500, 24.7303, 7.2729)
contains.

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Color

**XYZ(12.8244, 24.6927,
7.2222)**

Conversions

Conversions Part 1

Format	Color
Hex	009E33
RGB	0, 158, 51
RGB Percent	0%, 62%, 20%
CMY	1.0000, 0.3804, 0.8000
CMYK	1.00, 0.00, 0.68, 0.38
HSL	139°, 100%, 31%
HSV	139°, 100%, 62%
XYZ	12.8244, 24.6927, 7.2222
YIQ	98.5600, -59.8210, -66.7730

Conversions

Conversions Part 2

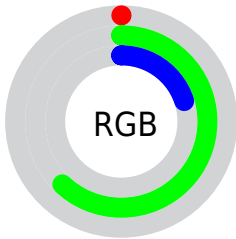
Format	Color
RYB	0, 119, 158
Decimal	40499
CIELab	56.77, -57.23, 44.51
CIELCh	57, 72.507, 142.126
Yxy	24.6927, 0.2866, 0.5519
Android (android.graphics.Color)	4278230579 (0xFF009E33)
YUV	98.5600, -23.4471, -86.4371
Hunter-Lab	49.6917, -40.8935, 26.1670

Details

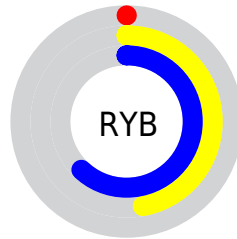
The XYZ color **12.8244, 24.6927, 7.2222** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **16.7552, 8.3311, 14.6360**, and the grayscale version is **11.8176, 12.4331, 13.5396**.

A 20% lighter version of the original color is **30.5647, 51.1763, 20.8375**, and **5.0516, 10.1032, 1.6839** is the 20% darker color. If you saturate the color by 10%, you get **12.8249, 24.6937, 7.2224**, and if you desaturate by 10%, it is **13.2991, 24.9076, 8.6216**.

Distribution



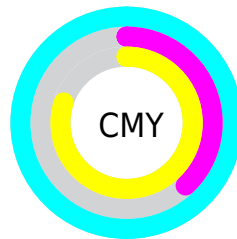
- Red (0%)
- Green (62%)
- Blue (20%)



- Red (0%)
- Yellow (47%)
- Blue (62%)



- Cyan (100%)
- Magenta (0%)
- Yellow (68%)
- Black (38%)





- Cyan (100%)
- Magenta (38%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.8244, 24.6927, 7.2222 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 12.8244, 24.6927, 7.2222 by changing the saturation by 10% instead.


 12.8244, 24.6927,
7.2222


 12.8244, 24.6927,
7.2222

203.4496,
276.3041, 179.1978


 7.3839, 15.8483,
3.5209


 30.5920, 51.1583,
20.9393


 3.7518, 9.4168,
1.3664


 43.6497, 69.5482,
31.7921


 1.5627, 5.0141,
0.1153

 59.9773, 91.8887,
45.8659

 0.3679, 2.2555,
0.0000

 79.9400, 118.5642,
63.5792

 0.0000, 0.7500,
0.0000

 103.9033,
149.9591, 85.3505

 0.0000, 0.0000,
0.0000

 132.2324,

186.4578, 111.5983

165.2927,
228.4446, 142.7413

■ 12.8244, 24.6927,
7.2222

■ 12.8244, 24.6927,
7.2222

■ 12.8249, 24.6937,
7.2224

■ 13.2991, 24.9076,
8.6216

■ 13.9937, 25.2286,
10.3322

■ 14.9837, 25.6948,
12.3746

■ 16.3020, 26.3228,
14.7653

■ 17.9767, 27.1269,
17.5200

■ 20.0329, 28.1197,
20.6533

■ 22.4932, 29.3126,
24.1789

■ 25.3787, 30.7161,
28.1100

■ 28.7087, 32.3400,
32.4588

Harmonies

Analogous

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



17.8581, 24.6927, 2.6978



12.8244, 24.6927, 7.2222



10.7578, 24.6927, 20.9927

Triad

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



12.8244, 24.6927, 7.2222



21.3099, 24.6927, 104.5282



42.0047, 24.6927, 12.8747

Complementary

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



12.8244, 24.6927, 7.2222



16.7552, 8.3311, 14.6360

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.



43.5641, 24.6927, 33.7906



12.8244, 24.6927, 7.2222



30.1485, 24.6927, 97.3016

Square

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



12.8244, 24.6927, 7.2222



14.8289, 24.6927, 83.0124



38.8029, 24.6927, 66.8539



34.9463, 24.6927, 4.3249

Rectangle

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



12.8244, 24.6927, 7.2222



10.8829, 24.6927, 37.9134



38.8029, 24.6927, 66.8539



43.2482, 24.6927, 18.2358

Sweetspot

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



12.8250, 24.6937, 7.2228



40.5619, 53.0916, 43.5099



18.4080, 27.6409, 4.3652



8.7281, 11.7673, 9.2200



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.



12.8250, 24.6937, 7.2228



23.2072, 44.8092, 12.6844



16.1922, 26.0406, 24.9545



6.6346, 7.4346, 7.5104



10.2874, 19.7829, 5.8707



0.2021, 0.3610, 0.2008

Inverse Universe

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



16.7552, 8.3311, 14.6360



30.3313, 15.0906, 26.0787



14.3225, 7.3580, 1.8259



6.8130, 6.7181, 7.8663



13.4371, 6.6794, 11.8188



0.2587, 0.1268, 0.3084

Previews

White Background



This preview shows how the XYZ color 12.8244, 24.6927, 7.2222 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 12.8244, 24.6927, 7.2222 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 12.8244, 24.6927, 7.2222

Background



This preview shows how black text looks on a background with the XYZ color 12.8244, 24.6927, 7.2222.



This preview shows how white text looks on a background with the XYZ color 12.8244, 24.6927,

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

12.8244, 24.6927, 7.2222

Protanopia

22.2267, 24.4732, 6.0349

Deuteranopia

24.8410, 24.3623, 7.8080



Tritanopia

19.0494, 24.8079, 37.0421

Trichromacy



Original Color

12.8244, 24.6927, 7.2222



Protanomaly

15.4161, 22.6931, 6.2570



Deuteranomaly

16.1800, 22.1774, 7.2988



Tritanomaly

15.5329, 24.2840, 21.6379

Monochromacy



Original Color

12.8244, 24.6927, 7.2222



Achromatopsia

11.8596, 12.4772, 13.5877



Achromatomaly

10.2894, 15.0989, 10.3547

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8244, 24.6927, 7.2222 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, 51)` looks like.

```
.text, #text, p{  
    color:rgb(0, 158, 51)  
}
```

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, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 158, 51) }
```

Border

The CSS property to change the border of an element to XYZ 12.8244, 24.6927, 7.2222 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, 51) }
```


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

```
.border{ border-color:rgb(0, 158, 51) }
```

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, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 158, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 158, 51);  
box-shadow:4px 4px 4px 4px rgb(0, 158, 51)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.8244, 24.6927, 7.2222 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, 51) }
```

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

```
.background{ background-color: rgb(0, 158,  
51) }
```

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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