

Converting Colors

XYZ(12.4486, 19.5292, 9.1983)

Have a look what the booklet for
XYZ(12.4486, 19.5292, 9.1983)
contains.

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Color

**XYZ(12.4993, 19.5881,
9.2530)**

Conversions

Conversions Part 1

Format	Color
Hex	448948
RGB	68, 137, 72
RGB Percent	27%, 54%, 28%
CMY	0.7333, 0.4627, 0.7176
CMYK	0.50, 0.00, 0.47, 0.46
HSL	123°, 34%, 40%
HSV	123°, 50%, 54%
XYZ	12.4993, 19.5881, 9.2530
YIQ	108.9590, -20.2590, -34.8430

Conversions

Conversions Part 2

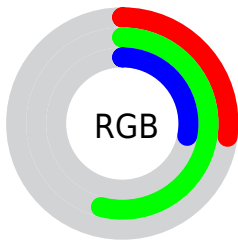
Format	Color
RYB	68, 133, 137
Decimal	4491592
CIELab	51.37, -36.12, 28.22
CIElCh	51, 45.835, 141.995
Yxy	19.5881, 0.3024, 0.4738
Android (android.graphics.Color)	4282681672 (0xFF448948)
YUV	108.9590, -18.2208, -35.9210
Hunter-Lab	44.2584, -27.0410, 18.5853

Details

The XYZ color **12.4993, 19.5881, 9.2530** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **16.6180, 11.1466, 23.4668**, and the grayscale version is **14.5788, 15.3381, 16.7031**.

A 20% lighter version of the original color is **30.0288, 42.7317, 25.0777**, and **3.5893, 6.7689, 2.0946** is the 20% darker color. If you saturate the color by 10%, you get **11.2755, 19.0014, 7.2241**, and if you desaturate by 10%, it is **14.0359, 20.3269, 11.7589**.

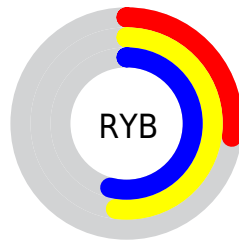
Distribution



Red (27%)

Green (54%)

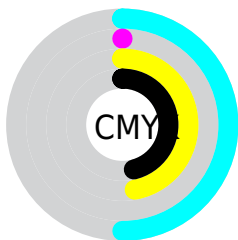
Blue (28%)



Red (27%)

Yellow (52%)

Blue (54%)

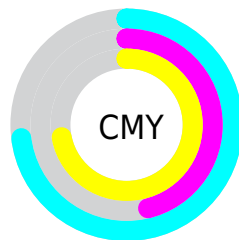


Cyan (50%)

Magenta (0%)

Yellow (47%)

Black (46%)



Cyan (73%)

Magenta (46%)

Yellow (72%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4993, 19.5881, 9.2530 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 12.4993, 19.5881, 9.2530 by changing the saturation by 10% instead.

■ 12.4993, 19.5881,
9.2530

■ 12.4993, 19.5881,
9.2530

201.3865,
249.6765, 195.5412

■ 7.1593, 12.0960,
4.8075

■ 30.0103, 42.7255,
24.9661

■ 3.6091, 6.8091,
2.0780

■ 42.9120, 59.1396,
37.0708

■ 1.4835, 3.3430,
0.6026

■ 59.0650, 79.2965,
52.5657

■ 0.3146, 1.3133,
0.0000

■ 78.8346, 103.5805,
71.8693

■ 0.0000, 0.1515,
0.0000

■ 102.5862,
132.3762, 95.4000

■ 0.0000, 0.0000,
0.0000

130.6851,

166.0678, 123.5766

163.4968,
205.0397, 156.8175

■ 12.4993, 19.5881,
9.2530

■ 12.4993, 19.5881,
9.2530

■ 11.2755, 19.0014,
7.2241

■ 14.0359, 20.3269,
11.7589

■ 10.3415, 18.5540,
5.6407

■ 15.9031, 21.2248,
14.7679

■ 9.6739, 18.2351,
4.4696

■ 18.1191, 22.2913,
18.3059

■ 9.2446, 18.0310,
3.6727

■ 20.7007, 23.5342,
22.3965

■ 8.9895, 17.9094,
3.2111

■ 23.6631, 24.9612,
27.0621

■ 27.0210, 26.5793,
32.3236

■ 30.7882, 28.3951,
38.2011

■ 34.9778, 30.4152,
44.7135

■ 39.6024, 32.6454,
51.8792

Harmonies

Analogous

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



15.5074, 19.5881, 5.4381



12.4993, 19.5881, 9.2530



11.1811, 19.5881, 18.0016

Triad

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



12.4993, 19.5881, 9.2530



17.4169, 19.5881, 57.3740



28.0472, 19.5881, 13.2005

Complementary

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



12.4993, 19.5881, 9.2530



16.6180, 11.1466, 23.4668

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.



28.7839, 19.5881, 25.0411



12.4993, 19.5881, 9.2530



22.1188, 19.5881, 54.3501

Square

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



12.4993, 19.5881, 9.2530



13.7000, 19.5881, 48.0505



26.4645, 19.5881, 40.9581



24.5910, 19.5881, 6.9780

Rectangle

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



12.4993, 19.5881, 9.2530



11.2571, 19.5881, 27.0175



26.4645, 19.5881, 40.9581



28.6416, 19.5881, 16.4993

Sweetspot

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



12.4998, 19.5889, 9.2534



34.6902, 40.9981, 36.3422



19.7498, 23.3410, 8.9335



7.5949, 9.1061, 7.8565



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.4998, 19.5889, 9.2534



20.0092, 33.9394, 12.6307



13.9291, 20.1606, 16.7799



4.9828, 5.6126, 5.4307



8.3750, 16.6826, 2.9994



0.0570, 0.1114, 0.0270

Inverse Universe

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



16.6180, 11.1466, 23.4668



28.2282, 17.0715, 40.9840



14.6388, 10.3549, 13.0446



5.2215, 5.1241, 6.2551



13.3060, 6.4325, 19.9133



0.0902, 0.0434, 0.1416

Previews

White Background



This preview shows how the XYZ color 12.4993, 19.5881, 9.2530 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 12.4993, 19.5881, 9.2530 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 12.4993, 19.5881, 9.2530

Background



This preview shows how black text looks on a background with the XYZ color 12.4993, 19.5881, 9.2530.



This preview shows how white text looks on a background with the XYZ color 12.4993, 19.5881,

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

12.4993, 19.5881, 9.2530

Protanopia

17.8042, 19.3926, 8.1150

Deuteranopia

19.6176, 19.2296, 9.6989



Tritanopia

16.1512, 19.4330, 27.7106

Trichromacy



Original Color

12.4993, 19.5881, 9.2530

Protanomaly

15.0940, 18.9234, 8.4873

Deuteranomaly

15.9489, 18.7749, 9.4399

Tritanomaly

14.4877, 19.3600, 19.1929

Monochromacy



Original Color

12.4993, 19.5881, 9.2530

Achromatopsia

14.5356, 15.2926, 16.6537

Achromatomaly

13.3242, 16.4179, 13.5330

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4993, 19.5881, 9.2530 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(68, 137, 72)` looks like.

```
.text, #text, p{  
    color:rgb(68, 137, 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(68, 137, 72) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 137, 72) }
```

Border

The CSS property to change the border of an element to XYZ 12.4993, 19.5881, 9.2530 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(68, 137, 72) }
```


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

```
.border{ border-color:rgb(68, 137, 72) }
```

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

Here you see how a box with a 4 pixel rgb(68, 137, 72) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 137, 72); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 137, 72);  
box-shadow:4px 4px 4px 4px rgb(68, 137,  
72) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4993, 19.5881, 9.2530 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 137, 72) }
```

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

```
.background{ background-color: rgb(68, 137,  
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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