

Converting Colors

XYZ(12.9242, 23.0045, 7.7484)

Have a look what the booklet for
XYZ(12.9242, 23.0045, 7.7484)
contains.

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Color

**XYZ(12.9125, 22.9966,
7.7612)**

Conversions

Conversions Part 1

Format	Color
Hex	2D973A
RGB	45, 151, 58
RGB Percent	18%, 59%, 23%
CMY	0.8235, 0.4078, 0.7725
CMYK	0.70, 0.00, 0.62, 0.41
HSL	127°, 54%, 38%
HSV	127°, 70%, 59%
XYZ	12.9125, 22.9966, 7.7612
YIQ	108.7040, -33.3230, -51.3950

Conversions

Conversions Part 2

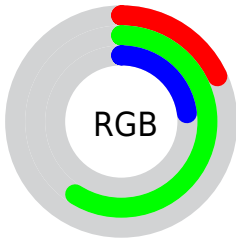
Format	Color
R_{YB}	45, 139, 151
Decimal	2987834
CIE _{Lab}	55.07, -49.30, 39.61
CIE _{LCh}	55, 63.236, 141.219
Yxy	22.9966, 0.2957, 0.5266
Android (android.graphics.Color)	4281177914 (0xFF2D973A)
YUV	108.7040, -24.9971, -55.8684
Hunter-Lab	47.9548, -35.8572, 23.9726

Details

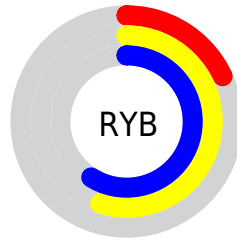
The XYZ color **12.9125, 22.9966, 7.7612** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **18.2889, 10.2914, 25.0674**, and the grayscale version is **14.5277, 15.2843, 16.6446**.

A 20% lighter version of the original color is **30.7219, 48.2895, 21.8889**, and **4.4783, 8.9303, 1.5738** is the 20% darker color. If you saturate the color by 10%, you get **12.0685, 22.5962, 6.1834**, and if you desaturate by 10%, it is **14.0820, 23.5561, 9.8081**.

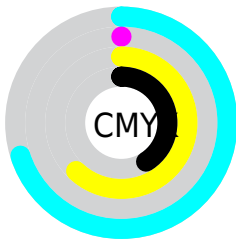
Distribution



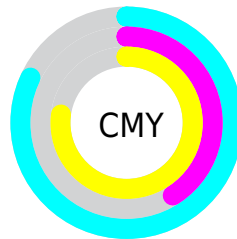
- Red (18%)
- Green (59%)
- Blue (23%)



- Red (18%)
- Yellow (55%)
- Blue (59%)



- Cyan (70%)
- Magenta (0%)
- Yellow (62%)
- Black (41%)



- Cyan (82%)
- Magenta (41%)
- Yellow (77%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9125, 22.9966, 7.7612 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 12.9125, 22.9966, 7.7612 by changing the saturation by 10% instead.

■ 12.9125, 22.9966,
7.7612

■ 12.9125, 22.9966,
7.7612

204.0051,
267.7075, 183.7109

■ 7.4449, 14.5910,
3.8570

■ 30.7492, 48.3877,
22.0273

■ 3.7907, 8.5328,
1.5472

■ 43.8489, 66.1421,
33.2263

■ 1.5844, 4.4378,
0.2527

■ 60.2235, 87.7814,
47.6940

■ 0.3822, 1.9213,
0.0000

■ 80.2381, 113.6902,
65.8488

■ 0.0000, 0.5612,
0.0000

■ 104.2582,
144.2528, 88.1094

■ 0.0000, 0.0000,
0.0000

■ 132.6492,

179.8537, 114.8942

165.7764,
220.8771, 146.6219

■ 12.9125, 22.9966,
7.7612

■ 12.9125, 22.9966,
7.7612

■ 12.0685, 22.5962,
6.1834

■ 14.0820, 23.5561,
9.8081

■ 11.5149, 22.3357,
5.0359

■ 15.6043, 24.2860,
12.3555

■ 11.1806, 22.1795,
4.2867

■ 17.5055, 25.2000,
15.4341

■ 19.8090, 26.3093,
19.0716

■ 22.5360, 27.6246,
23.2937

■ 25.7065, 29.1554,
28.1247

■ 29.3391, 30.9109,
33.5872

■ 33.4513, 32.8997,
39.7031

■ 38.0596, 35.1299,
46.4928

Harmonies

Analogous

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



17.3153, 22.9966, 3.4987



12.9125, 22.9966, 7.7612



11.0236, 22.9966, 19.5754

Triad

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



12.9125, 22.9966, 7.7612



19.8556, 22.9966, 86.2135



37.0600, 22.9966, 13.4660

Complementary

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



12.9125, 22.9966, 7.7612



18.2889, 10.2914, 25.0674

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.



38.1498, 22.9966, 31.4358



12.9125, 22.9966, 7.7612



27.1319, 22.9966, 81.3511

Square

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



12.9125, 22.9966, 7.7612



14.4283, 22.9966, 69.0477



34.1988, 22.9966, 58.0148



31.4793, 22.9966, 5.3465

Rectangle

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



12.9125, 22.9966, 7.7612



11.0871, 22.9966, 33.3645



34.1988, 22.9966, 58.0148



38.0050, 22.9966, 18.2289

Sweetspot

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



12.9131, 22.9976, 7.7617



39.7193, 49.1622, 40.7335



22.1275, 27.7813, 6.6787



8.7363, 11.0333, 8.8089



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

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



12.9131, 22.9976, 7.7617



21.0086, 40.1805, 9.8556



14.9839, 23.8259, 18.6664



6.1615, 6.9373, 6.7737



9.5174, 18.8704, 3.6794



0.1493, 0.2849, 0.0920

Inverse Universe

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



18.2889, 10.2914, 25.0674



31.2053, 15.9239, 42.5650



15.3664, 9.1224, 9.6780



6.4286, 6.3106, 7.6371



14.4355, 7.0284, 19.3500



0.2238, 0.1083, 0.3314

Previews

White Background



This preview shows how the XYZ color 12.9125, 22.9966, 7.7612 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 12.9125, 22.9966, 7.7612 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 12.9125, 22.9966, 7.7612

Background



This preview shows how black text looks on a background with the XYZ color 12.9125, 22.9966, 7.7612.



This preview shows how white text looks on a background with the XYZ color 12.9125, 22.9966,

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

12.9125, 22.9966, 7.7612

Protanopia

20.5902, 22.5915, 6.5242

Deuteranopia

23.0149, 22.6376, 8.3107



Tritanopia

18.0223, 22.7661, 33.5814

Trichromacy



Original Color

12.9125, 22.9966, 7.7612



Protanomaly

16.0610, 21.6945, 6.8310



Deuteranomaly

17.0300, 21.3310, 7.9223



Tritanomaly

15.4453, 22.6156, 20.6907

Monochromacy



Original Color

12.9125, 22.9966, 7.7612



Achromatopsia

14.5356, 15.2926, 16.6537



Achromatomaly

12.8909, 17.1319, 12.3002

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9125, 22.9966, 7.7612 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(45, 151, 58)` looks like.

```
.text, #text, p{  
    color:rgb(45, 151, 58)  
}
```

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(45, 151, 58) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 151, 58) }
```

Border

The CSS property to change the border of an element to XYZ 12.9125, 22.9966, 7.7612 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(45, 151, 58) }
```


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

```
.border{ border-color:rgb(45, 151, 58) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 151, 58)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 151, 58); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 151, 58);  
box-shadow:4px 4px 4px 4px rgb(45, 151,  
58) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9125, 22.9966, 7.7612 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 151, 58) }
```

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

```
.background{ background-color: rgb(45, 151,  
58) }
```

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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