

Converting Colors

XYZ(12.7910, 22.9920, 6.9110)

Have a look what the booklet for
XYZ(12.7910, 22.9920, 6.9110)
contains.

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Color

**XYZ(12.7463, 22.9301,
6.8861)**

Conversions

Conversions Part 1

Format	Color
Hex	2D9733
RGB	45, 151, 51
RGB Percent	18%, 59%, 20%
CMY	0.8235, 0.4078, 0.8000
CMYK	0.70, 0.00, 0.66, 0.41
HSL	123°, 54%, 38%
HSV	123°, 70%, 59%
XYZ	12.7463, 22.9301, 6.8861
YIQ	107.9060, -31.0760, -53.5720

Conversions

Conversions Part 2

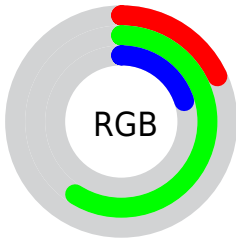
Format	Color
R_{YB}	45, 145, 151
Decimal	2987827
CIE _{Lab}	55.00, -50.11, 42.73
CIE _{LCh}	55, 65.853, 139.543
Yxy	22.9301, 0.2995, 0.5387
Android (android.graphics.Color)	4281177907 (0xFF2D9733)
YUV	107.9060, -28.0547, -55.1686
Hunter-Lab	47.8854, -36.2857, 24.9936

Details

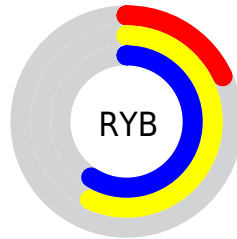
The XYZ color **12.7463, 22.9301, 6.8861** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **18.8122, 10.5007, 27.8233**, and the grayscale version is **14.3104, 15.0556, 16.3956**.

A 20% lighter version of the original color is **30.4134, 48.1661, 20.2644**, and **4.4618, 8.9237, 1.4873** is the 20% darker color. If you saturate the color by 10%, you get **11.9297, 22.5407, 5.4524**, and if you desaturate by 10%, it is **13.8979, 23.4824, 8.8389**.

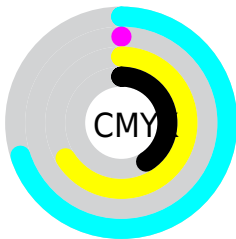
Distribution



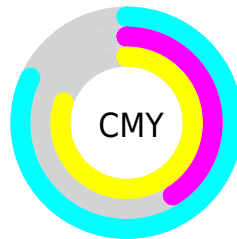
- Red (18%)
- Green (59%)
- Blue (20%)



- Red (18%)
- Yellow (57%)
- Blue (59%)



- Cyan (70%)
- Magenta (0%)
- Yellow (66%)
- Black (41%)





- Cyan (82%)
- Magenta (41%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.7463, 22.9301, 6.8861 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 12.7463, 22.9301, 6.8861 by changing the saturation by 10% instead.


 12.7463, 22.9301,
6.8861


 12.7463, 22.9301,
6.8861


202.9559,
267.3658, 176.3088


 7.3299, 14.5419,
3.3136


 30.4525, 48.2785,
20.2527


 3.7174, 8.4985,
1.2569


 43.4729, 66.0075,
30.8838

 1.5435, 4.4156,
0.0261

 59.7587, 87.6190,
44.7049

 0.3552, 1.9086,
0.0000

 79.6752, 113.4972,
62.1345

 0.0000, 0.5536,
0.0000

 103.5879,
144.0266, 83.5912

 0.0000, 0.0000,
0.0000

 131.8620,

179.5915, 109.4934

164.8629,
220.5765, 140.2598

■ 12.7463, 22.9301,
6.8861

■ 12.7463, 22.9301,
6.8861

■ 11.9297, 22.5407,
5.4524

■ 13.8979, 23.4824,
8.8389

■ 11.4106, 22.2939,
4.4870

■ 15.4137, 24.2098,
11.3522

■ 11.1139, 22.1529,
3.9357

■ 17.3215, 25.1264,
14.4651

■ 19.6459, 26.2441,
18.2129

■ 22.4095, 27.5739,
22.6279

■ 25.6335, 29.1261,
27.7403

■ 29.3374, 30.9102,
33.5786

■ 33.5397, 32.9350,
40.1695

■ 38.2581, 35.2092,
47.5384

Harmonies

Analogous

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



17.4187, 22.9301, 2.9923



12.7463, 22.9301, 6.8861



10.6800, 22.9301, 18.3445

Triad

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



12.7463, 22.9301, 6.8861



19.3392, 22.9301, 89.2493



37.9235, 22.9301, 13.7684

Complementary

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



12.7463, 22.9301, 6.8861



18.8122, 10.5007, 27.8233

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.



38.7642, 22.9301, 33.0176



12.7463, 22.9301, 6.8861



26.8476, 22.9301, 85.4426

Square

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



12.7463, 22.9301, 6.8861



13.8805, 22.9301, 69.8874



34.3480, 22.9301, 61.3010



32.2576, 22.9301, 5.1453

Rectangle

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



12.7463, 22.9301, 6.8861



10.6558, 22.9301, 32.2604



34.3480, 22.9301, 61.3010



38.8214, 22.9301, 18.8650

Sweetspot

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



12.7468, 22.9311, 6.8866



39.4834, 49.0678, 39.4909



23.3420, 28.4074, 6.7355



8.6784, 11.0102, 8.5044



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.



12.7468, 22.9311, 6.8866



20.7927, 40.0941, 8.7187



14.6126, 23.6773, 16.7115



6.1456, 6.9310, 6.6903



9.4582, 18.8467, 3.3674



0.1447, 0.2831, 0.0677

Inverse Universe

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



18.8122, 10.5007, 27.8233



32.3277, 16.3729, 48.4755



15.6640, 9.2414, 11.2448



6.4461, 6.3176, 7.7293



15.0433, 7.2716, 22.5509



0.2289, 0.1103, 0.3579

Previews

White Background



This preview shows how the XYZ color 12.7463, 22.9301, 6.8861 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 12.7463, 22.9301, 6.8861 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 12.7463, 22.9301, 6.8861

Background



This preview shows how black text looks on a background with the XYZ color 12.7463, 22.9301, 6.8861.



This preview shows how white text looks on a background with the XYZ color 12.7463, 22.9301,

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

12.7463, 22.9301, 6.8861

Protanopia

20.4440, 22.5331, 5.7544

Deuteranopia

22.9236, 22.4229, 7.3948



Tritanopia

18.0987, 22.8055, 33.5850

Trichromacy



Original Color

12.7463, 22.9301, 6.8861



Protanomaly

15.9082, 21.6334, 6.0265



Deuteranomaly

16.8714, 21.2675, 7.0867



Tritanomaly

15.3277, 22.5685, 20.0713

Monochromacy



Original Color

12.7463, 22.9301, 6.8861



Achromatopsia

14.2537, 14.9960, 16.3306



Achromatomaly

12.6743, 17.0347, 11.6368

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7463, 22.9301, 6.8861 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, 51)` looks like.

```
.text, #text, p{  
    color:rgb(45, 151, 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(45, 151, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 151, 51) }
```

Border

The CSS property to change the border of an element to XYZ 12.7463, 22.9301, 6.8861 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, 51) }
```


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

```
.border{ border-color:rgb(45, 151, 51) }
```

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, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 151, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 151, 51);  
box-shadow:4px 4px 4px 4px rgb(45, 151,  
51) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7463, 22.9301, 6.8861 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, 51) }
```

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

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