

Converting Colors

XYZ(12.8483, 24.0973, 4.6859)

Have a look what the booklet for
XYZ(12.8483, 24.0973, 4.6859)
contains.

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Color

**XYZ(12.7712, 23.9682,
4.6627)**

Conversions

Conversions Part 1

Format	Color
Hex	299B15
RGB	41, 155, 21
RGB Percent	16%, 61%, 8%
CMY	0.8392, 0.3921, 0.9176
CMYK	0.74, 0.00, 0.86, 0.39
HSL	111°, 76%, 35%
HSV	111°, 86%, 61%
XYZ	12.7712, 23.9682, 4.6627
YIQ	105.6380, -24.9300, -65.8420

Conversions

Conversions Part 2

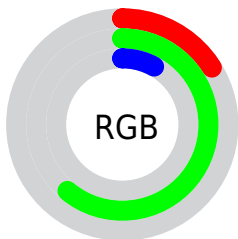
Format	Color
R_{YB}	21, 155, 135
Decimal	2726677
CIE _{Lab}	56.06, -54.49, 54.26
CIE _{LCh}	56, 76.901, 135.120
Yxy	23.9682, 0.3085, 0.5789
Android (android.graphics.Color)	4280916757 (0xFF299B15)
YUV	105.6380, -41.7265, -56.6875
Hunter-Lab	48.9573, -39.1111, 28.6233

Details

The XYZ color **12.7712, 23.9682, 4.6627** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **16.1780, 8.0549, 31.7136**, and the grayscale version is **13.7167, 14.4310, 15.7154**.

A 20% lighter version of the original color is **30.5312, 50.1563, 15.4691**, and **4.7514, 9.5027, 1.5838** is the 20% darker color. If you saturate the color by 10%, you get **12.2258, 23.6999, 4.0883**, and if you desaturate by 10%, it is **13.5796, 24.3636, 5.6970**.

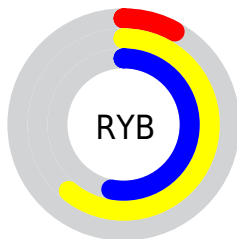
Distribution



Red (16%)

Green (61%)

Blue (8%)



Red (8%)

Yellow (61%)

Blue (53%)

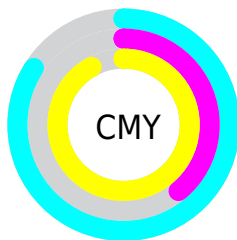


Cyan (74%)

Magenta (0%)

Yellow (86%)

Black (39%)



Cyan (84%)


Magenta (39%)


Yellow (92%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.7712, 23.9682, 4.6627 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 12.7712, 23.9682, 4.6627 by changing the saturation by 10% instead.


 12.7712, 23.9682,
4.6627


 12.7712, 23.9682,
4.6627


203.1134,
272.6597, 155.3288


 7.3471, 15.3100,
1.9955


 30.4969, 49.9783,
15.5114


 3.7284, 9.0373,
0.5525


 43.5293, 68.0990,
24.5300

 1.5496, 4.7655,
0.0000

 59.8284, 90.1427,
36.5028


 0.3592, 2.1103,
0.0000

 79.7597, 116.4938,
51.8483

 0.0000, 0.6704,
0.0000


 103.6885,
147.5366, 70.9851


 0.0000, 0.0000,
0.0000


 131.9802,


183.6556, 94.3318


 165.0000,
225.2352, 122.3068


 12.7712, 23.9682,
4.6627


 12.7712, 23.9682,
4.6627

 12.2258, 23.6999,
4.0883


 13.5796, 24.3636,
5.6970

 12.0781, 23.6273,
3.9239

 14.6825, 24.8982,
7.2818

 16.1064, 25.5851,
9.4801

 17.8741, 26.4348,
12.3458

 20.0066, 27.4571,
15.9271

■ 22.5229, 28.6608,
20.2675

■ 25.4407, 30.0543,
25.4072

■ 28.7768, 31.6452,
31.3836

■ 32.5467, 33.4411,
38.2317

Harmonies

Analogous

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



18.6460, 23.9682, 1.7009



12.7712, 23.9682, 4.6627



10.0282, 23.9682, 15.5259

Triad

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



12.7712, 23.9682, 4.6627



18.7062, 23.9682, 106.5420



43.3327, 23.9682, 15.3873

Complementary

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



12.7712, 23.9682, 4.6627



16.1780, 8.0549, 31.7136

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.



43.3609, 23.9682, 40.6249



12.7712, 23.9682, 4.6627



27.4862, 23.9682, 106.4076

Square

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



12.7712, 23.9682, 4.6627



12.8054, 23.9682, 77.7013



36.9983, 23.9682, 77.4040



36.9289, 23.9682, 4.6172

Rectangle

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



12.7712, 23.9682, 4.6627



9.7417, 23.9682, 30.6657



36.9983, 23.9682, 77.4040



44.1333, 23.9682, 22.0067

Sweetspot

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



12.7718, 23.9692, 4.6632



40.3052, 51.3126, 36.2443



22.3040, 24.3240, 4.2293



8.7782, 11.4496, 7.6048



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



12.7718, 23.9692, 4.6632



21.5289, 42.2603, 7.0224



13.0717, 24.0193, 9.4011



6.2137, 6.9676, 6.6232



9.7224, 18.9880, 3.1526



0.1646, 0.2938, 0.0480

Inverse Universe

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



16.1780, 8.0549, 31.7136



27.4754, 12.9401, 56.5859



16.4987, 8.5904, 15.0051



6.3706, 6.2770, 7.8048



12.4042, 5.8456, 25.3822



0.2070, 0.0985, 0.3805

Previews

White Background



This preview shows how the XYZ color 12.7712, 23.9682, 4.6627 looks on a white background.

Color Contrast Check

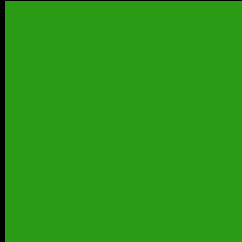
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.7712, 23.9682, 4.6627 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 12.7712, 23.9682, 4.6627

Background



This preview shows how black text looks on a background with the XYZ color 12.7712, 23.9682, 4.6627.



This preview shows how white text looks on a background with the XYZ color 12.7712, 23.9682,

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

12.7712, 23.9682, 4.6627

Protanopia

21.1820, 23.5659, 3.8477

Deuteranopia

23.8756, 23.5342, 5.1179



Tritanopia

18.8757, 23.8427, 35.0597

Trichromacy



Original Color

12.7712, 23.9682, 4.6627



Protanomaly

16.2046, 22.7015, 4.0581



Deuteranomaly

17.0915, 22.0606, 4.7238



Tritanomaly

15.2936, 23.2981, 17.6008

Monochromacy



Original Color

12.7712, 23.9682, 4.6627



Achromatopsia

13.6994, 14.4128, 15.6956



Achromatomaly

11.9573, 16.7171, 9.2531

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7712, 23.9682, 4.6627 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(41, 155, 21)` looks like.

```
.text, #text, p{  
    color:rgb(41, 155, 21)  
}
```

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(41, 155, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(41, 155, 21) }
```

Border

The CSS property to change the border of an element to XYZ 12.7712, 23.9682, 4.6627 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(41, 155, 21) }
```


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

```
.border{ border-color:rgb(41, 155, 21) }
```

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

Here you see how a box with a 4 pixel `rgb(41, 155, 21)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(41, 155, 21); -webkit-box-  
shadow:4px 4px 4px 4px rgb(41, 155, 21);  
box-shadow:4px 4px 4px 4px rgb(41, 155,  
21) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7712, 23.9682, 4.6627 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(41, 155, 21) }
```

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

```
.background{ background-color: rgb(41, 155,  
21) }
```

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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