

Converting Colors

XYZ(12.9720, 24.2784, 6.6822)

Have a look what the booklet for
XYZ(12.9720, 24.2784, 6.6822)
contains.

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Color

**XYZ(12.9666, 24.2735,
6.6912)**

Conversions

Conversions Part 1

Format	Color
Hex	1F9C2F
RGB	31, 156, 47
RGB Percent	12%, 61%, 18%
CMY	0.8784, 0.3882, 0.8157
CMYK	0.80, 0.00, 0.70, 0.39
HSL	128°, 67%, 37%
HSV	128°, 80%, 61%
XYZ	12.9666, 24.2735, 6.6912
YIQ	106.1990, -39.5110, -60.3990

Conversions

Conversions Part 2

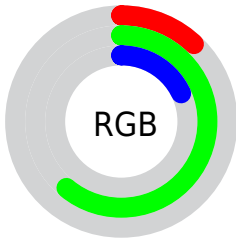
Format	Color
RYB	31, 142, 156
Decimal	2071599
CIELab	56.36, -54.50, 45.84
CIELCh	56, 71.215, 139.938
Yxy	24.2735, 0.2952, 0.5525
Android (android.graphics.Color)	4280261679 (0xFF1F9C2F)
YUV	106.1990, -29.1851, -65.9495
Hunter-Lab	49.2681, -39.2409, 26.4354

Details

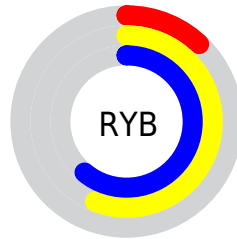
The XYZ color **12.9666, 24.2735, 6.6912** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **18.9343, 9.9415, 25.7310**, and the grayscale version is **13.8400, 14.5608, 15.8567**.

A 20% lighter version of the original color is **30.9412, 50.6405, 19.9482**, and **4.8502, 9.7005, 1.6167** is the 20% darker color. If you saturate the color by 10%, you get **12.3727, 23.9950, 5.4479**, and if you desaturate by 10%, it is **13.8746, 24.7055, 8.3969**.

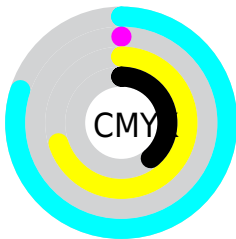
Distribution



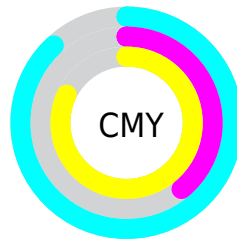
- Red (12%)
- Green (61%)
- Blue (18%)



- Red (12%)
- Yellow (56%)
- Blue (61%)



- Cyan (80%)
- Magenta (0%)
- Yellow (70%)
- Black (39%)





- Cyan (88%)
- Magenta (39%)
- Yellow (82%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.9666, 24.2735, 6.6912 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 12.9666, 24.2735, 6.6912 by changing the saturation by 10% instead.


 12.9666, 24.2735,
6.6912


 12.9666, 24.2735,
6.6912


204.3454,
274.2003, 174.6050


 7.4824, 15.5366,
3.1942


 30.8456, 50.4761,
19.8514


 3.8146, 9.1969,
1.1946


 43.9711, 68.7107,
30.3518

 1.5978, 4.8698,
0.0000


 60.3744, 90.8800,
44.0236

 0.3910, 2.1711,
0.0000

 80.4208, 117.3683,
61.2856

 0.0000, 0.7042,
0.0000

 104.4758,
148.5601, 82.5561

 0.0000, 0.0000,
0.0000

 132.9047,

184.8398, 108.2539

166.0728,
226.5917, 138.7973

■ 12.9666, 24.2735,
6.6912

■ 12.9666, 24.2735,
6.6912

■ 12.3727, 23.9950,
5.4479

■ 13.8746, 24.7055,
8.3969

■ 12.0150, 23.8284,
4.6267

■ 15.1312, 25.3058,
10.6027

■ 16.7682, 26.0907,
13.3441

■ 18.8131, 27.0738,
16.6531

■ 21.2912, 28.2674,
20.5592

■ 24.2255, 29.6828,
25.0896

■ 27.6374, 31.3306,
30.2702

■ 31.5469, 33.2205,
36.1252

■ 35.9730, 35.3618,
42.6775

Harmonies

Analogous

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



18.0909, 24.2735, 2.6299



12.9666, 24.2735, 6.6912



10.7469, 24.2735, 19.2847

Triad

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



12.9666, 24.2735, 6.6912



20.4189, 24.2735, 100.7325



41.3444, 24.2735, 13.8052

Complementary

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



12.9666, 24.2735, 6.6912



18.9343, 9.9415, 25.7310

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.



42.3920, 24.2735, 35.1520



12.9666, 24.2735, 6.6912



28.8908, 24.2735, 95.8915

Square

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



12.9666, 24.2735, 6.6912



14.3214, 24.2735, 78.4064



37.4031, 24.2735, 67.5722



34.8105, 24.2735, 4.7196

Rectangle

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



12.9666, 24.2735, 6.6912



10.7434, 24.2735, 35.0356



37.4031, 24.2735, 67.5722



42.4009, 24.2735, 19.3628

Sweetspot

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



12.9672, 24.2745, 6.6917



41.5784, 52.7424, 41.8500



23.1922, 29.5764, 5.7827



8.7670, 11.4214, 8.6178



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.



12.9672, 24.2745, 6.6917



21.9728, 43.3495, 8.6654



15.1653, 25.1538, 18.2669



6.5836, 7.4142, 7.2419



9.9040, 19.6295, 3.8514



0.1858, 0.3545, 0.1149

Inverse Universe

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



18.9343, 9.9415, 25.7310



33.1195, 16.2661, 44.0022



15.6091, 8.6114, 8.2208



6.8676, 6.7400, 8.1538



14.9639, 7.2901, 19.8588



0.2768, 0.1340, 0.4037

Previews

White Background



This preview shows how the XYZ color 12.9666, 24.2735, 6.6912 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 12.9666, 24.2735, 6.6912 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

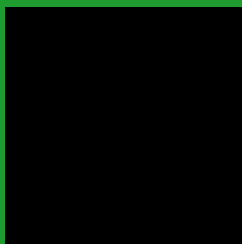
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.9666, 24.2735, 6.6912

Background



This preview shows how black text looks on a background with the XYZ color 12.9666, 24.2735, 6.6912.



This preview shows how white text looks on a background with the XYZ color 12.9666, 24.2735,

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

12.9666, 24.2735, 6.6912

Protanopia

21.5030, 23.6943, 5.5380

Deuteranopia

24.1836, 23.8407, 7.1980



Tritanopia

18.8189, 24.2573, 35.5886

Trichromacy



Original Color

12.9666, 24.2735, 6.6912



Protanomaly

16.1725, 22.6462, 5.8043



Deuteranomaly

17.0672, 22.2159, 6.7567



Tritanomaly

15.6928, 23.9093, 20.6175

Monochromacy



Original Color

12.9666, 24.2735, 6.6912



Achromatopsia

13.6994, 14.4128, 15.6956



Achromatomaly

12.0718, 16.7334, 11.1880

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9666, 24.2735, 6.6912 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(31, 156, 47)` looks like.

```
.text, #text, p{  
    color:rgb(31, 156, 47)  
}
```

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(31, 156, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 156, 47) }
```

Border

The CSS property to change the border of an element to XYZ 12.9666, 24.2735, 6.6912 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(31, 156, 47) }
```


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

```
.border{ border-color:rgb(31, 156, 47) }
```

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

Here you see how a box with a 4 pixel rgb(31, 156, 47) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 156, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 156, 47);  
box-shadow:4px 4px 4px 4px rgb(31, 156,  
47) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9666, 24.2735, 6.6912 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 156, 47) }
```

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

```
.background{ background-color: rgb(31, 156,  
47) }
```

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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