

Converting Colors

XYZ(31.0467, 60.9022, 12.8083)

Have a look what the booklet for
XYZ(31.0467, 60.9022, 12.8083)
contains.

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Color

**XYZ(31.0467, 60.9022,
12.8083)**

Conversions

Conversions Part 1

Format	Color
Hex	12ED2F
RGB	18, 237, 47
RGB Percent	7%, 93%, 18%
CMY	0.9294, 0.0706, 0.8157
CMYK	0.92, 0.00, 0.80, 0.07
HSL	128°, 86%, 50%
HSV	128°, 92%, 93%
XYZ	31.0467, 60.9022, 12.8083
YIQ	149.8590, -69.5340, -105.5180

Conversions

Conversions Part 2

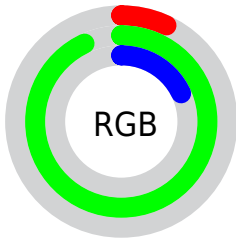
Format	Color
RYB	18, 211, 237
Decimal	1240367
CIELab	82.33, -79.47, 71.53
CIELCh	82, 106.924, 138.010
Yxy	60.9022, 0.2964, 0.5814
Android (android.graphics.Color)	4279430447 (0xFF12ED2F)
YUV	149.8590, -50.7095, -115.6403
Hunter-Lab	78.0399, -65.5569, 44.8969

Details

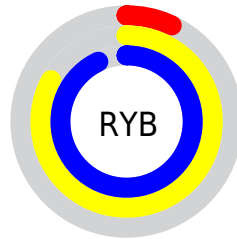
The XYZ color **31.0467, 60.9022, 12.8083** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **46.5272, 22.9916, 61.6565**, and the grayscale version is **29.1604, 30.6790, 33.4095**.

A 20% lighter version of the original color is **45.8564, 76.4060, 26.7990**, and **16.1201, 32.2402, 5.3734** is the 20% darker color. If you saturate the color by 10%, you get **30.5380, 60.6718, 11.4250**, and if you desaturate by 10%, it is **32.2583, 61.4689, 15.5648**.

Distribution



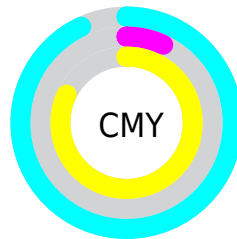
- Red (7%)
- Green (93%)
- Blue (18%)



- Red (7%)
- Yellow (83%)
- Blue (93%)



- Cyan (92%)
- Magenta (0%)
- Yellow (80%)
- Black (7%)





- Cyan (93%)
- Magenta (7%)
- Yellow (82%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.0467, 60.9022, 12.8083 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 31.0467, 60.9022, 12.8083 by changing the saturation by 10% instead.


 31.0467, 60.9022,
12.8083


 31.0467, 60.9022,
12.8083


298.5764,
427.9153, 220.8499


 20.7864, 44.1462,
7.1675


 60.6889, 106.1373,
31.6451

 13.0795, 30.7855,
3.4870

 80.8016, 135.3853,
45.6781


 7.5607, 20.4356,
1.3484


 104.9291,
169.5660, 63.3457

 3.8646, 12.7121,
0.1010

 133.4367,
209.0639, 85.0663

 1.6258, 7.2306,
0.0000

 166.6900,
254.2634, 111.2585

 0.4091, 3.6067,
0.0000

205.0541,

 0.0000, 1.4561,

305.5489, 142.3408

0.0000

248.8945,
363.3047, 178.7317

■ 0.0000, 0.2575,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 31.0467, 60.9022,
12.8083

■ 31.0467, 60.9022,
12.8083


■ 30.5380, 60.6718,
11.4250


■ 32.2583, 61.4689,
15.5648


■ 34.2589, 62.4151,
19.5027


■ 37.1587, 63.7972,
24.7369


■ 41.0492, 65.6601,
31.3674

 46.0105, 68.0432,
39.4844

 52.1143, 70.9817,
49.1707

 59.4261, 74.5079,
60.5028

 68.0066, 78.6513,
73.5523

 77.9121, 83.4398,
88.3865

Harmonies

Analogous

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



45.3689, 60.9022, 4.2499



31.0467, 60.9022, 12.8083



24.7361, 60.9022, 43.5128

Triad

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



31.0467, 60.9022, 12.8083



49.2531, 60.9022, 280.3433



110.3464, 60.9022, 34.5911

Complementary

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



31.0467, 60.9022, 12.8083



46.5272, 22.9916, 61.6565

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.



112.1876, 60.9022, 95.9418



31.0467, 60.9022, 12.8083



72.5158, 60.9022, 271.5198

Square

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



31.0467, 60.9022, 12.8083



33.2445, 60.9022, 210.1226



96.9371, 60.9022, 190.6537



92.4207, 60.9022, 9.9401

Rectangle

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



31.0467, 60.9022, 12.8083



24.4376, 60.9022, 85.3786



96.9371, 60.9022, 190.6537



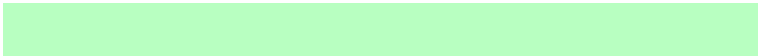
113.0108, 60.9022, 50.3192

Sweetspot

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



31.0481, 60.9047, 12.8097



65.0636, 85.5138, 63.5625



57.3887, 74.5305, 11.9334



13.1646, 17.9363, 12.4170



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



31.0481, 60.9047, 12.8097



36.0455, 71.6342, 13.4236



36.2889, 63.0011, 40.4075



14.9495, 16.8946, 16.4172



16.6987, 33.1340, 6.3786



1.3372, 2.6122, 0.6374

Inverse Universe

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



46.5272, 22.9916, 61.6565



54.3208, 26.4923, 70.8125



37.5386, 19.3962, 14.3230



15.6240, 15.2774, 18.5711



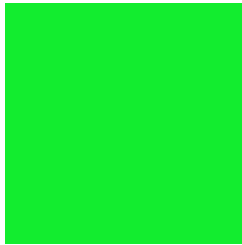
25.1594, 12.2664, 32.9703



1.9995, 0.9728, 2.7146

Previews

White Background



This preview shows how the XYZ color 31.0467, 60.9022, 12.8083 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 31.0467, 60.9022, 12.8083 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

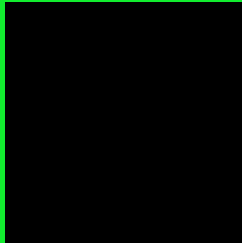
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 31.0467, 60.9022, 12.8083

Background



This preview shows how black text looks on a background with the XYZ color 31.0467, 60.9022, 12.8083.

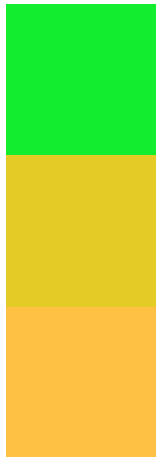


This preview shows how white text looks on a background with the XYZ color 31.0467, 60.9022,

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

31.0467, 60.9022, 12.8083

Protanopia

53.7007, 59.3458, 10.4583

Deuteranopia

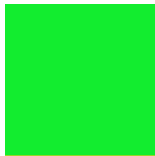
60.9864, 59.6281, 13.7639



Tritanopia

46.5820, 60.5975, 90.9027

Trichromacy



Original Color

31.0467, 60.9022, 12.8083



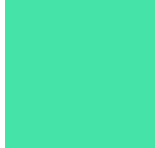
Protanomaly

37.6496, 55.4364, 10.8138



Deuteranomaly

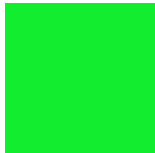
39.7645, 54.2520, 12.6508



Tritanomaly

37.1563, 59.1048, 46.9862

Monochromacy



Original Color

31.0467, 60.9022, 12.8083



Achromatopsia

28.9890, 30.4987, 33.2131



Achromatomaly

25.1881, 37.4729, 21.5282

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.0467, 60.9022, 12.8083 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(18, 237, 47)` looks like.

```
.text, #text, p{  
    color:rgb(18, 237, 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(18, 237, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 237, 47) }
```

Border

The CSS property to change the border of an element to XYZ 31.0467, 60.9022, 12.8083 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(18, 237, 47) }
```


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

```
.border{ border-color:rgb(18, 237, 47) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 237, 47)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 237, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 237, 47);  
box-shadow:4px 4px 4px 4px rgb(18, 237,  
47) }
```

Background

The CSS property to change the background color of an element to XYZ 31.0467, 60.9022, 12.8083 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 237, 47) }
```

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

```
.background{ background-color: rgb(18, 237,  
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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