

Converting Colors

XYZ(31.5075, 60.2894, 12.6654)

Have a look what the booklet for
XYZ(31.5075, 60.2894, 12.6654)
contains.

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Color

**XYZ(31.4880, 60.2749,
12.6639)**

Conversions

Conversions Part 1

Format	Color
Hex	31EB2F
RGB	49, 235, 47
RGB Percent	19%, 92%, 18%
CMY	0.8078, 0.0784, 0.8157
CMYK	0.79, 0.00, 0.80, 0.08
HSL	119°, 82%, 55%
HSV	119°, 80%, 92%
XYZ	31.4880, 60.2749, 12.6639
YIQ	157.9540, -50.5080, -97.9000

Conversions

Conversions Part 2

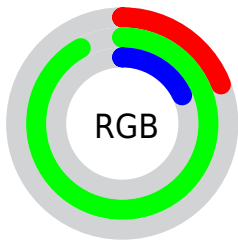
Format	Color
RYB	47, 235, 233
Decimal	3271471
CIELab	81.99, -76.39, 71.32
CIELCh	82, 104.506, 136.966
Yxy	60.2749, 0.3015, 0.5772
Android (android.graphics.Color)	4281461551 (0xFF31EB2F)
YUV	157.9540, -54.7003, -95.5527
Hunter-Lab	77.6369, -63.4685, 44.6746

Details

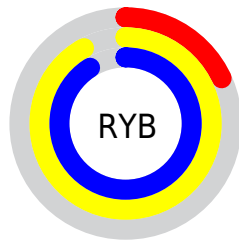
The XYZ color **31.4880, 60.2749, 12.6639** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **49.6217, 25.3581, 80.8798**, and the grayscale version is **32.7367, 34.4415, 37.5068**.

A 20% lighter version of the original color is **47.3689, 77.1919, 26.5903**, and **15.7221, 31.4443, 5.2407** is the 20% darker color. If you saturate the color by 10%, you get **30.2890, 59.6994, 10.7643**, and if you desaturate by 10%, it is **33.5224, 61.2552, 15.9355**.

Distribution



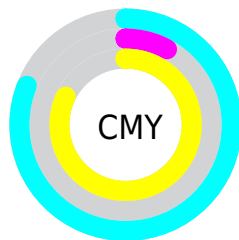
- Red (19%)
- Green (92%)
- Blue (18%)



- Red (18%)
- Yellow (92%)
- Blue (91%)



- Cyan (79%)
- Magenta (0%)
- Yellow (80%)
- Black (8%)





- Cyan (81%)
- Magenta (8%)
- Yellow (82%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.4880, 60.2749, 12.6639 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 31.4880, 60.2749, 12.6639 by changing the saturation by 10% instead.


 31.4880, 60.2749,
12.6639


 31.4880, 60.2749,
12.6639


300.5672,
425.6103, 219.8839


 21.1244, 43.6402,
7.0695


 61.3782, 105.2283,
31.3809

 13.3279, 30.3878,
3.4265


 81.6355, 134.3159,
45.3406

 7.7333, 20.1331,
1.3163


 105.9214,
168.3233, 62.9259

 3.9751, 12.4918,
0.0751

 134.6012,
207.6348, 84.5552

 1.6881, 7.0796,
0.0000

 168.0403,
252.6348, 110.6471

 0.4488, 3.5119,
0.0000

206.6041,

 0.0000, 1.4045,

303.7079, 141.6202

0.0000

250.6580,
361.2382, 177.8929

■ 0.0000, 0.2200,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 31.4880, 60.2749,
12.6639

■ 31.4880, 60.2749,
12.6639

■ 30.2890, 59.6994,
10.7643

■ 33.5224, 61.2552,
15.9355


■ 29.7409, 59.4353,
9.9049


■ 36.5020, 62.6874,
20.7679


■ 29.7407, 59.4352,
9.9047


■ 40.5245, 64.6201,
27.3242


■ 45.6743, 67.0938,
35.7464

 52.0272, 70.1449,
46.1614

 59.6524, 73.8066,
58.6853

 68.6140, 78.1094,
73.4250

 78.9716, 83.0822,
90.4805

 88.9996, 87.8992,
106.8832

Harmonies

Analogous

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



45.7544, 60.2749, 4.4685



31.4880, 60.2749, 12.6639



25.0437, 60.2749, 41.8160

Triad

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



31.4880, 60.2749, 12.6639



48.2241, 60.2749, 270.1540



108.3504, 60.2749, 36.1183

Complementary

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



31.4880, 60.2749, 12.6639



49.6217, 25.3581, 80.8798

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.



109.5097, 60.2749, 97.1057



31.4880, 60.2749, 12.6639



70.6166, 60.2749, 264.6357

Square

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



31.4880, 60.2749, 12.6639



32.8931, 60.2749, 200.9727



94.3351, 60.2749, 188.7654



91.4866, 60.2749, 10.7911

Rectangle

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



31.4880, 60.2749, 12.6639



24.5962, 60.2749, 81.5369



94.3351, 60.2749, 188.7654



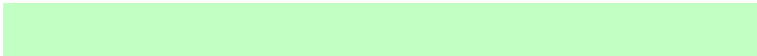
110.7180, 60.2749, 51.9379

Sweetspot

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



31.4894, 60.2774, 12.6653



67.8384, 86.9348, 64.1259



63.5960, 75.5089, 13.9130



13.8282, 18.2753, 12.5891



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.



31.4894, 60.2774, 12.6653



35.9788, 71.6263, 12.2219



35.4605, 61.8550, 34.0669



14.8831, 16.8698, 15.9905



16.5580, 33.0805, 5.5125



1.3054, 2.6003, 0.4331

Inverse Universe

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



49.6217, 25.3581, 80.8798



58.4535, 28.2131, 96.9726



40.3240, 21.7145, 28.5076



15.6982, 15.3052, 19.0491



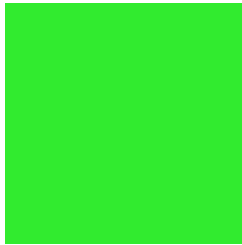
26.9668, 12.9378, 44.8189



2.1226, 1.0186, 3.5196

Previews

White Background



This preview shows how the XYZ color 31.4880, 60.2749, 12.6639 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 31.4880, 60.2749, 12.6639 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

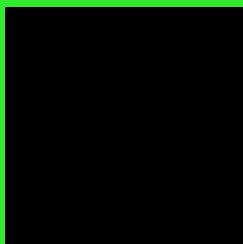
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 31.4880, 60.2749, 12.6639

Background



This preview shows how black text looks on a background with the XYZ color 31.4880, 60.2749, 12.6639.

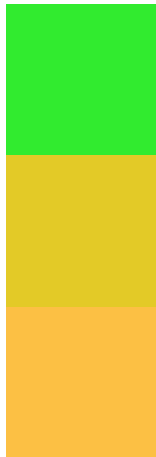


This preview shows how white text looks on a background with the XYZ color 31.4880, 60.2749,

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

31.4880, 60.2749, 12.6639

Protanopia

53.1653, 58.7184, 10.4511

Deuteranopia

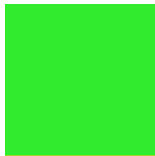
60.0379, 58.8121, 13.6564



Tritanopia

46.6810, 59.9033, 89.2229

Trichromacy



Original Color

31.4880, 60.2749, 12.6639



Protanomaly

39.3648, 55.9417, 10.9136



Deuteranomaly

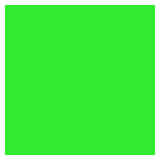
41.7316, 54.9030, 12.6728



Tritanomaly

37.8308, 58.6560, 46.3736

Monochromacy



Original Color

31.4880, 60.2749, 12.6639



Achromatopsia

32.4990, 34.1914, 37.2345



Achromatomaly

28.3001, 40.2774, 23.4223

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.4880, 60.2749, 12.6639 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(49, 235, 47)` looks like.

```
.text, #text, p{  
    color:rgb(49, 235, 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(49, 235, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 235, 47) }
```

Border

The CSS property to change the border of an element to XYZ 31.4880, 60.2749, 12.6639 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(49, 235, 47) }
```


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

```
.border{ border-color:rgb(49, 235, 47) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 235, 47)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 235, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 235, 47);  
box-shadow:4px 4px 4px 4px rgb(49, 235,  
47) }
```

Background

The CSS property to change the background color of an element to XYZ 31.4880, 60.2749, 12.6639 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 235, 47) }
```

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

```
.background{ background-color: rgb(49, 235,  
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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