

# Converting Colors

XYZ(31.3130, 59.8755, 18.9173)

Have a look what the booklet for  
XYZ(31.3130, 59.8755, 18.9173)  
contains.

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# Color

**XYZ(31.4286, 60.1048,  
18.9618)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EB57
RGB	0, 235, 87
RGB Percent	0%, 92%, 34%
CMY	1.0000, 0.0784, 0.6588
CMYK	1.00, 0.00, 0.63, 0.08
HSL	142°, 100%, 46%
HSV	142°, 100%, 92%
XYZ	31.4286, 60.1048, 18.9618
YIQ	147.8630, -92.5520, -95.8480

# Conversions

## Conversions Part 2

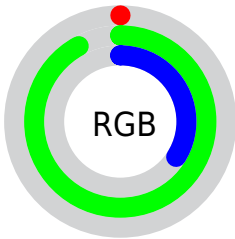
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 172, 235
Decimal	60247
CIELab	81.90, -76.21, 57.10
CIELCh	82, 95.226, 143.159
Yxy	60.1048, 0.2844, 0.5440
Android (android.graphics.Color)	4278250327 (0xFF00EB57)
YUV	147.8630, -30.0055, -129.6759
Hunter-Lab	77.5273, -63.3111, 39.7678

# Details

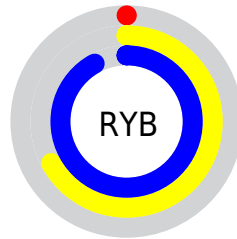
The XYZ color **31.4286, 60.1048, 18.9618** is a dark color, and the websafe version is hex **33FF66**. The color can be described as dark washed green. A complement of this color would be **39.6078, 19.8011, 29.7521**, and the grayscale version is **28.2413, 29.7120, 32.3564**.

A 20% lighter version of the original color is **47.1980, 76.8525, 37.9376**, and **15.9317, 31.5281, 6.3445** is the 20% darker color. If you saturate the color by 10%, you get **31.4300, 60.1072, 18.9629**, and if you desaturate by 10%, it is **32.4631, 60.5626, 22.4985**.

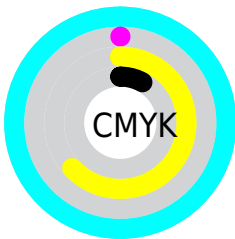
# Distribution



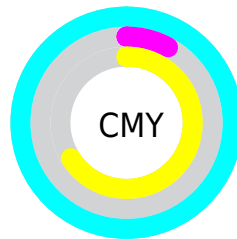
- Red (0%)
- Green (92%)
- Blue (34%)



- Red (0%)
- Yellow (67%)
- Blue (92%)



- Cyan (100%)
- Magenta (0%)
- Yellow (63%)
- Black (8%)



- Cyan (100%)
- Magenta (8%)
- Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.4286, 60.1048, 18.9618 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 31.4286, 60.1048, 18.9618 by changing the saturation by 10% instead.



31.4286, 60.1048,  
18.9618

31.4286, 60.1048,  
18.9618

300.2998,  
424.9840, 258.6535

21.0789, 43.5031,  
11.4661

61.2855, 104.9817,  
42.5054

13.2944, 30.2801,  
6.2632

81.5234, 134.0257,  
59.3904

7.7100, 20.0513,  
2.9344

105.7880,  
167.9859, 80.2423

3.9602, 12.4323,  
1.0612

134.4447,  
207.2467, 105.4795

1.6796, 7.0388,  
0.0000

167.8589,  
252.1925, 135.5208

0.4435, 3.4864,  
0.0000

206.3959,

0.0000, 1.3906,

303.2077, 170.7845

0.0000

250.4211,  
360.6767, 211.6892

■ 0.0000, 0.2098,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 31.4286, 60.1048,  
18.9618

■ 31.4286, 60.1048,  
18.9618

■ 31.4300, 60.1072,  
18.9629

■ 32.4631, 60.5626,  
22.4985

■ 34.0697, 61.2985,  
26.7442

■ 36.3960, 62.3896,  
31.7411

■ 39.5303, 63.8807,  
37.5246

■ 43.5471, 65.8094,  
44.1279

■ 48.5121, 68.2091,  
51.5822

■ 54.4844, 71.1097,  
59.9167

■ 61.5184, 74.5385,  
69.1595

■ 69.6642, 78.5210,  
79.3373

# Harmonies

## Analogous

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



43.2271, 60.1048, 7.2955



31.4286, 60.1048, 18.9618



26.6882, 60.1048, 53.1161

# Triad

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



31.4286, 60.1048, 18.9618



52.6433, 60.1048, 248.5325



100.5767, 60.1048, 30.8323

# Complementary

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



31.4286, 60.1048, 18.9618



39.6078, 19.8011, 29.7521

# 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.



104.7764, 60.1048, 79.5453



31.4286, 60.1048, 18.9618



73.7285, 60.1048, 229.2476

# Square

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



31.4286, 60.1048, 18.9618



36.9336, 60.1048, 200.1405



94.0076, 60.1048, 156.8615



83.5981, 60.1048, 10.7984



# Rectangle

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



31.4286, 60.1048, 18.9618



27.1363, 60.1048, 94.0371



94.0076, 60.1048, 156.8615



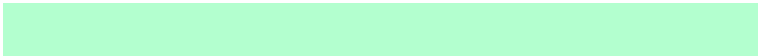
103.6713, 60.1048, 43.3279

# Sweetspot

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



31.4300, 60.1073, 18.9632



65.4758, 85.5405, 71.9774



42.0742, 65.7933, 10.4819



13.3318, 17.9773, 14.4699



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.



31.4300, 60.1073, 18.9632



37.7987, 72.3355, 22.6554



40.5692, 63.7629, 67.0891



15.0989, 16.9544, 17.2037



17.5480, 33.4737, 10.8508



1.4230, 2.6465, 1.0895



# Inverse Universe

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



39.6078, 19.8011, 29.7521



47.6373, 23.8189, 35.6175



34.5141, 17.7636, 2.9293



15.4646, 15.2137, 17.7317



22.1063, 11.0452, 16.8929

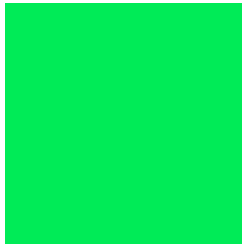


1.7821, 0.8858, 1.5697



# Previews

## White Background



This preview shows how the XYZ color 31.4286, 60.1048, 18.9618 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

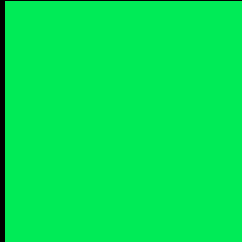
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.4286, 60.1048, 18.9618 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 31.4286, 60.1048, 18.9618**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.4286, 60.1048, 18.9618.



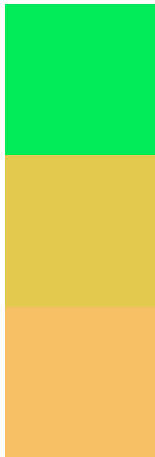
This preview shows how white text looks on a background with the XYZ color 31.4286, 60.1048,



# 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

31.4286, 60.1048, 18.9618

### Protanopia

53.5114, 58.7844, 15.5474

### Deuteranopia

59.8613, 58.5758, 20.2078



## Tritanopia

45.6419, 59.7391, 90.0141

# Trichromacy



## Original Color

31.4286, 60.1048, 18.9618



## Protanomaly

36.8595, 54.5269, 16.3666



## Deuteranomaly

38.7220, 53.2071, 19.0556



## Tritanomaly

37.3359, 58.2300, 54.0714

# Monochromacy



## Original Color

31.4286, 60.1048, 18.9618



## Achromatopsia

28.1479, 29.6138, 32.2495



## Achromatomaly

24.7032, 36.5286, 25.4874

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.4286, 60.1048, 18.9618 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(0, 235, 87)` looks like.

```
.text, #text, p{  
    color:rgb(0, 235, 87)  
}
```

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(0, 235, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 235, 87) }
```

## Border

The CSS property to change the border of an element to XYZ 31.4286, 60.1048, 18.9618 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(0, 235, 87) }
```



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

```
.border{ border-color:rgb(0, 235, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 235, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 235, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 235, 87);  
box-shadow:4px 4px 4px 4px rgb(0, 235, 87)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 31.4286, 60.1048, 18.9618 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 235, 87) }
```

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

```
.background{ background-color: rgb(0, 235,  
87) }
```

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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