

Converting Colors

XYZ(31.8939, 58.0817, 16.3429)

Have a look what the booklet for
XYZ(31.8939, 58.0817, 16.3429)
contains.

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Color

**XYZ(31.7781, 57.8256,
16.3241)**

Conversions

Conversions Part 1

Format	Color
Hex	45E54C
RGB	69, 229, 76
RGB Percent	27%, 90%, 30%
CMY	0.7294, 0.1019, 0.7019
CMYK	0.70, 0.00, 0.67, 0.10
HSL	123°, 75%, 58%
HSV	123°, 70%, 90%
XYZ	31.7781, 57.8256, 16.3241
YIQ	163.7180, -46.2470, -81.5030

Conversions

Conversions Part 2

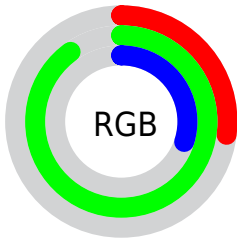
Format	Color
RYB	69, 222, 229
Decimal	4580684
CIELab	80.64, -69.53, 60.38
CIELCh	81, 92.085, 139.031
Yxy	57.8256, 0.3000, 0.5459
Android (android.graphics.Color)	4282770764 (0xFF45E54C)
YUV	163.7180, -43.2450, -83.0677
Hunter-Lab	76.0431, -58.4811, 40.5025

Details

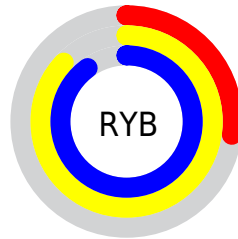
The XYZ color **31.7781, 57.8256, 16.3241** is a dark color, and the websafe version is hex **33CC33**. The color can be described as dark muted green. A complement of this color would be **47.6275, 26.1891, 71.6523**, and the grayscale version is **35.3687, 37.2106, 40.5224**.

A 20% lighter version of the original color is **50.1733, 78.4771, 33.9759**, and **14.7854, 29.5182, 5.0906** is the 20% darker color. If you saturate the color by 10%, you get **29.8201, 56.8914, 12.9127**, and if you desaturate by 10%, it is **34.6243, 59.1911, 21.1315**.

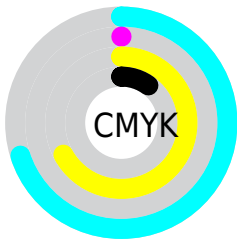
Distribution



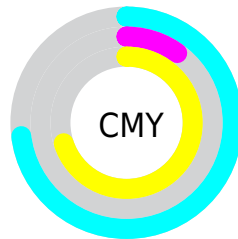
- Red (27%)
- Green (90%)
- Blue (30%)



- Red (27%)
- Yellow (87%)
- Blue (90%)



- Cyan (70%)
- Magenta (0%)
- Yellow (67%)
- Black (10%)



- Cyan (73%)
- Magenta (10%)
- Yellow (70%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.7781, 57.8256, 16.3241 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 31.7781, 57.8256, 16.3241 by changing the saturation by 10% instead.

31.7781, 57.8256,
16.3241

31.7781, 57.8256,
16.3241

301.8705,
416.5358, 243.1573

21.3468, 41.6685,
9.5970

61.8306, 101.6689,
37.9345

13.4916, 28.8418,
5.0305

82.1825, 130.1237,
53.6549

7.8473, 18.9612,
2.2061

106.5720,
163.4467, 73.2101

4.0484, 11.6422,
0.6779

135.3644,
202.0221, 97.0187

1.7295, 6.5005,
0.0000

168.9251,
246.2343, 125.4991

0.4746, 3.1518,
0.0000

207.6194,

0.0000, 1.2115,

296.4677, 159.0700

0.0000

251.8128,
353.1067, 198.1499

■ 0.0000, 0.0710,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 31.7781, 57.8256,
16.3241

■ 31.7781, 57.8256,
16.3241

■ 29.8201, 56.8914,
12.9127

■ 34.6243, 59.1911,
21.1315

■ 28.6420, 56.3308,
10.7448


■ 38.4428, 61.0236,
27.4587


■ 28.0807, 56.0654,
9.6378


■ 43.3125, 63.3628,
35.4204


■ 28.0753, 56.0628,
9.6293


■ 49.3031, 66.2426,
45.1191

 56.4782, 69.6938,
56.6491

 64.8970, 73.7448,
70.0976

 74.6143, 78.4224,
85.5466

 85.6820, 83.7516,
103.0731

 87.3104, 84.5209,
106.3201

Harmonies

Analogous

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



43.9124, 57.8256, 6.8572



31.7781, 57.8256, 16.3241



26.3820, 57.8256, 45.1144

Triad

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



31.7781, 57.8256, 16.3241



48.3134, 57.8256, 231.1008



97.1212, 57.8256, 34.6893

Complementary

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



31.7781, 57.8256, 16.3241



47.6275, 26.1891, 71.6523

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.



99.0726, 57.8256, 84.9878



31.7781, 57.8256, 16.3241



67.7240, 57.8256, 222.1805

Square

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



31.7781, 57.8256, 16.3241



34.3597, 57.8256, 179.2470



87.3324, 57.8256, 159.2009



82.4910, 57.8256, 12.4580

Rectangle

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



31.7781, 57.8256, 16.3241



26.2509, 57.8256, 80.8098



87.3324, 57.8256, 159.2009



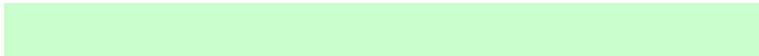
99.3901, 57.8256, 47.9574

Sweetspot

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



31.7795, 57.8280, 16.3254



70.8429, 88.3497, 70.3167



59.7331, 72.2653, 16.4308



14.5972, 18.6382, 14.1424



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.



31.7795, 57.8280, 16.3254



37.2460, 72.2191, 15.0142



36.3356, 59.6504, 40.3175



14.2148, 16.0993, 15.3958



16.0629, 32.0573, 5.5654



1.1961, 2.3725, 0.4590

Inverse Universe

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



47.6275, 26.1891, 71.6523



58.6029, 29.4628, 89.4847



39.4514, 22.9186, 28.5977



14.9664, 14.6038, 18.0236



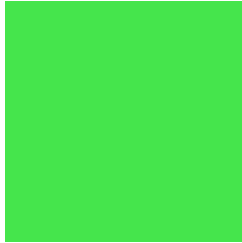
25.7959, 12.4526, 39.4157



1.9147, 0.9236, 2.9574

Previews

White Background



This preview shows how the XYZ color 31.7781, 57.8256, 16.3241 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 31.7781, 57.8256, 16.3241 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

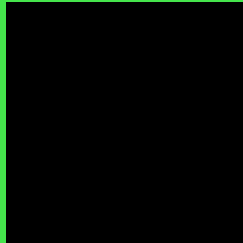
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 31.7781, 57.8256, 16.3241

Background



This preview shows how black text looks on a background with the XYZ color 31.7781, 57.8256, 16.3241.

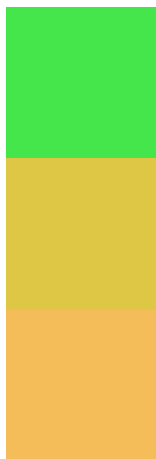


This preview shows how white text looks on a background with the XYZ color 31.7781, 57.8256,

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

31.7781, 57.8256, 16.3241

Protanopia

51.5910, 56.7938, 13.7120

Deuteranopia

57.6570, 56.5289, 17.3235



Tritanopia

45.1525, 57.3074, 84.2830

Trichromacy



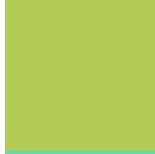
Original Color

31.7781, 57.8256, 16.3241



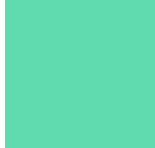
Protanomaly

39.9098, 54.6551, 14.4073



Deuteranomaly

42.2492, 53.6496, 16.5161



Tritanomaly

37.8933, 56.2450, 49.4166

Monochromacy



Original Color

31.7781, 57.8256, 16.3241



Achromatopsia

35.2861, 37.1238, 40.4278



Achromatomaly

31.2013, 42.2995, 28.3499

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.7781, 57.8256, 16.3241 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(69, 229, 76)` looks like.

```
.text, #text, p{  
    color:rgb(69, 229, 76)  
}
```

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(69, 229, 76) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(69, 229, 76) }
```

Border

The CSS property to change the border of an element to XYZ 31.7781, 57.8256, 16.3241 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(69, 229, 76) }
```


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

```
.border{ border-color:rgb(69, 229, 76) }
```

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

Here you see how a box with a 4 pixel `rgb(69, 229, 76)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(69, 229, 76); -webkit-box-  
shadow:4px 4px 4px 4px rgb(69, 229, 76);  
box-shadow:4px 4px 4px 4px rgb(69, 229,  
76) }
```

Background

The CSS property to change the background color of an element to XYZ 31.7781, 57.8256, 16.3241 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(69, 229, 76) }
```

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

```
.background{ background-color: rgb(69, 229,  
76) }
```

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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