

Converting Colors

XYZ(31.6311, 60.7777, 12.6729)

Have a look what the booklet for
XYZ(31.6311, 60.7777, 12.6729)
contains.

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Color

**XYZ(31.6153, 60.7690,
12.6481)**

Conversions

Conversions Part 1

Format	Color
Hex	2EEC2E
RGB	46, 236, 46
RGB Percent	18%, 93%, 18%
CMY	0.8196, 0.0745, 0.8196
CMYK	0.81, 0.00, 0.81, 0.07
HSL	120°, 83%, 55%
HSV	120°, 81%, 93%
XYZ	31.6153, 60.7690, 12.6481
YIQ	157.5300, -52.2500, -99.3700

Conversions

Conversions Part 2

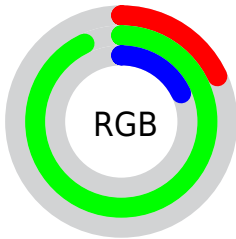
Format	Color
RYB	46, 236, 236
Decimal	3075118
CIELab	82.25, -77.07, 71.82
CIELCh	82, 105.349, 137.022
Yxy	60.7690, 0.3010, 0.5786
Android (android.graphics.Color)	4281265198 (0xFF2EEC2E)
YUV	157.5300, -54.9843, -97.8118
Hunter-Lab	77.9545, -64.0277, 44.9483

Details

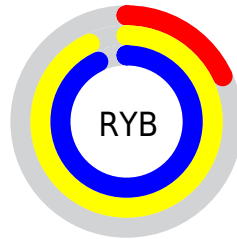
The XYZ color **31.6153, 60.7690, 12.6481** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **50.7100, 25.8434, 81.6684**, and the grayscale version is **32.5459, 34.2409, 37.2883**.

A 20% lighter version of the original color is **47.2192, 77.1147, 26.5833**, and **15.9204, 31.8408, 5.3068** is the 20% darker color. If you saturate the color by 10%, you get **30.4852, 60.2280, 10.7984**, and if you desaturate by 10%, it is **33.5869, 61.7179, 15.8724**.

Distribution



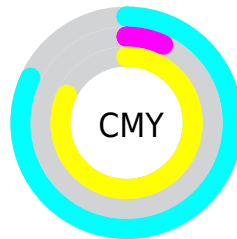
- Red (18%)
- Green (93%)
- Blue (18%)



- Red (18%)
- Yellow (93%)
- Blue (93%)



- Cyan (81%)
- Magenta (0%)
- Yellow (81%)
- Black (7%)



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

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6153, 60.7690, 12.6481 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 31.6153, 60.7690, 12.6481 by changing the saturation by 10% instead.

■ 31.6153, 60.7690,
12.6481

■ 31.6153, 60.7690,
12.6481

301.1396,
427.4265, 219.7779

■ 21.2220, 44.0388,
7.0588

■ 61.5768, 105.9444,
31.3520

■ 13.3997, 30.7010,
3.4199

■ 81.8756, 135.1583,
45.3036

■ 7.7833, 20.3713,
1.3128

■ 106.2070,
169.3023, 62.8799

■ 4.0072, 12.6652,
0.0723

■ 134.9363,
208.7607, 84.4992

■ 1.7062, 7.1984,
0.0000

■ 168.4289,
253.9180, 110.5801

■ 0.4602, 3.5865,
0.0000

207.0500,

■ 0.0000, 1.4451,

305.1584, 141.5411

0.0000

251.1651,
362.8665, 177.8009

■ 0.0000, 0.2496,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 31.6153, 60.7690,
12.6481

■ 31.6153, 60.7690,
12.6481

■ 30.4852, 60.2280,
10.7984


■ 33.5869, 61.7179,
15.8724

■ 29.9967, 59.9934,
9.9992


■ 36.5163, 63.1250,
20.6641


■ 40.5057, 65.0413,
27.1896


■ 45.6434, 67.5092,
35.5933

 52.0083, 70.5666,
46.0043

 59.6725, 74.2481,
58.5403

 68.7023, 78.5856,
73.3099

 79.1598, 83.6089,
90.4144

 89.2867, 88.4734,
106.9789

Harmonies

Analogous

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



46.0379, 60.7690, 4.4073



31.6153, 60.7690, 12.6481



25.1157, 60.7690, 42.1354

Triad

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



31.6153, 60.7690, 12.6481



48.6096, 60.7690, 274.0773



109.5544, 60.7690, 36.2103

Complementary

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



31.6153, 60.7690, 12.6481



50.7100, 25.8434, 81.6684

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.



110.7648, 60.7690, 97.9428



31.6153, 60.7690, 12.6481



71.3179, 60.7690, 268.3044

Square

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



31.6153, 60.7690, 12.6481



33.0761, 60.7690, 203.8015



95.3809, 60.7690, 191.0405



92.4080, 60.7690, 10.7126

Rectangle

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



31.6153, 60.7690, 12.6481



24.6719, 60.7690, 82.4336



95.3809, 60.7690, 191.0405



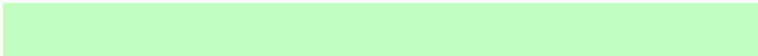
111.9698, 60.7690, 52.1950

Sweetspot

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



31.6167, 60.7715, 12.6495



67.6723, 86.8491, 64.1199



65.0833, 78.0242, 14.2147



13.7898, 18.2555, 12.5877



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.



31.6167, 60.7715, 12.6495



35.8977, 71.5862, 12.1455



35.9313, 62.4973, 35.3696



14.8684, 16.8622, 15.9900



16.5341, 33.0681, 5.5116



1.2983, 2.5966, 0.4329

Inverse Universe

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



50.7100, 25.8434, 81.6684



59.3710, 28.6453, 96.9971



40.3784, 21.7107, 27.2626



15.7148, 15.3138, 19.0497



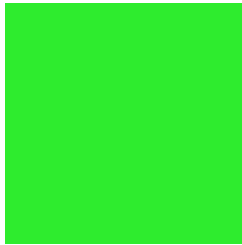
27.4125, 13.1677, 44.8349



2.1525, 1.0340, 3.5207

Previews

White Background



This preview shows how the XYZ color 31.6153, 60.7690, 12.6481 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 31.6153, 60.7690, 12.6481 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

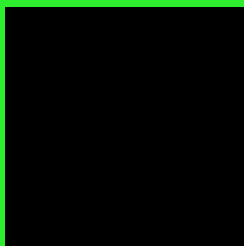
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 31.6153, 60.7690, 12.6481

Background



This preview shows how black text looks on a background with the XYZ color 31.6153, 60.7690, 12.6481.

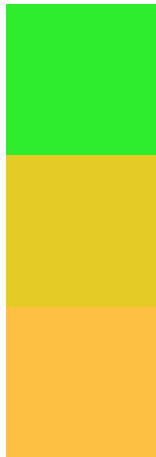


This preview shows how white text looks on a background with the XYZ color 31.6153, 60.7690,

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

31.6153, 60.7690, 12.6481

Protanopia

53.6848, 59.3394, 10.3744

Deuteranopia

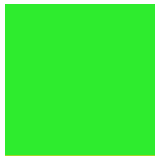
60.3708, 58.9872, 13.5140



Tritanopia

46.9697, 60.4236, 90.0763

Trichromacy



Original Color

31.6153, 60.7690, 12.6481



Protanomaly

39.5837, 56.4355, 10.8143



Deuteranomaly

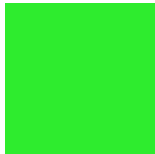
41.7054, 54.8925, 12.5349



Tritanomaly

37.9204, 59.1047, 46.4555

Monochromacy



Original Color

31.6153, 60.7690, 12.6481



Achromatopsia

32.4990, 34.1914, 37.2345



Achromatomaly

28.1059, 40.1841, 23.1046

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.6153, 60.7690, 12.6481 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(46, 236, 46)` looks like.

```
.text, #text, p{  
    color:rgb(46, 236, 46)  
}
```

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(46, 236, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 236, 46) }
```

Border

The CSS property to change the border of an element to XYZ 31.6153, 60.7690, 12.6481 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(46, 236, 46) }
```


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

```
.border{ border-color:rgb(46, 236, 46) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 236, 46)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 236, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 236, 46);  
box-shadow:4px 4px 4px 4px rgb(46, 236,  
46) }
```

Background

The CSS property to change the background color of an element to XYZ 31.6153, 60.7690, 12.6481 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 236, 46) }
```

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

```
.background{ background-color: rgb(46, 236,  
46) }
```

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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