

Converting Colors

XYZ(31.4107, 46.8411, 12.2504)

Have a look what the booklet for
XYZ(31.4107, 46.8411, 12.2504)
contains.

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Color

**XYZ(31.4112, 46.7471,
12.2180)**

Conversions

Conversions Part 1

Format	Color
Hex	86C840
RGB	134, 200, 64
RGB Percent	53%, 78%, 25%
CMY	0.4745, 0.2157, 0.7490
CMYK	0.33, 0.00, 0.68, 0.22
HSL	89°, 55%, 52%
HSV	89°, 68%, 78%
XYZ	31.4112, 46.7471, 12.2180
YIQ	164.7620, 4.3200, -56.2880

Conversions

Conversions Part 2

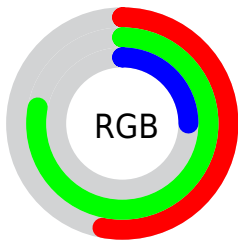
Format	Color
RYB	64, 200, 130
Decimal	8833088
CIELab	74.03, -42.36, 58.75
CIElCh	74, 72.433, 125.792
Yxy	46.7471, 0.3476, 0.5172
Android (android.graphics.Color)	4287023168 (0xFF86C840)
YUV	164.7620, -49.6757, -26.9783
Hunter-Lab	68.3719, -37.6448, 37.2652

Details

The XYZ color **31.4112, 46.7471, 12.2180** is a dark color, and the websafe version is hex **99CC33**. The color can be described as middle muted chartreuse. A complement of this color would be **21.4668, 12.5842, 55.9439**, and the grayscale version is **35.8803, 37.7489, 41.1085**.

A 20% lighter version of the original color is **60.5756, 83.9283, 30.4599**, and **13.4208, 22.1775, 3.5733** is the 20% darker color. If you saturate the color by 10%, you get **29.4646, 45.7994, 9.6705**, and if you desaturate by 10%, it is **33.7061, 47.8537, 15.8487**.

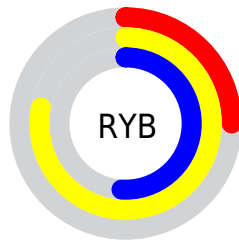
Distribution



Red (53%)

Green (78%)

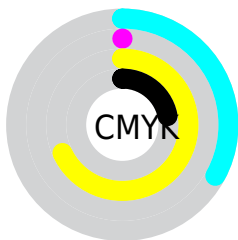
Blue (25%)



Red (25%)

Yellow (78%)

Blue (51%)

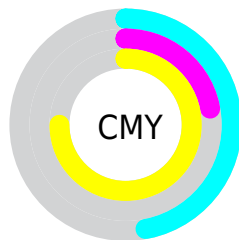


Cyan (33%)

Magenta (0%)

Yellow (68%)

Black (22%)



Cyan (47%)

Magenta (22%)

Yellow (75%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.4112, 46.7471, 12.2180 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 31.4112, 46.7471, 12.2180 by changing the saturation by 10% instead.

■ 31.4112, 46.7471,
12.2180

■ 31.4112, 46.7471,
12.2180

300.2214,
373.8042, 216.8721

■ 21.0655, 32.8358,
6.7680

■ 61.2583, 85.3360,
30.5618

■ 13.2846, 22.0007,
3.2412

■ 81.4905, 110.7824,
44.2928

■ 7.7032, 13.8574,
1.2191

■ 105.7489,
140.8425, 61.6210

■ 3.9558, 8.0215,
0.0000

■ 134.3988,
175.9009, 82.9653

■ 1.6772, 4.1087,
0.0000

■ 167.8057,
216.3418, 108.7439

■ 0.4419, 1.7346,
0.0000

206.3349,

■ 0.0000, 0.4459,

262.5498, 139.3756

0.0000

250.3517,
314.9091, 175.2788

■ 0.0000, 0.0000,
0.0000

■ 31.4112, 46.7471,
12.2180

■ 31.4112, 46.7471,
12.2180

■ 29.4646, 45.7994,
9.6705

■ 33.7061, 47.8537,
15.8487

■ 27.8361, 44.9934,
8.0818

■ 36.3693, 49.1228,
20.6629

■ 26.4888, 44.3153,
7.2726

■ 39.4226, 50.5652,
26.7529

■ 26.2415, 44.1904,
7.1465

■ 42.8851, 52.1889,
34.2012

■ 46.7744, 54.0014,
43.0831

■ 51.1069, 56.0095,
53.4685

■ 55.8981, 58.2198,
65.4228

■ 61.1627, 60.6386,
79.0074

■ 66.9145, 63.2716,
94.2804

Harmonies

Analogous

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



41.9679, 46.7471, 7.8265



31.4112, 46.7471, 12.2180



25.3831, 46.7471, 26.9152

Triad

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



31.4112, 46.7471, 12.2180



34.9903, 46.7471, 147.4741



74.0667, 46.7471, 44.0423

Complementary

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



31.4112, 46.7471, 12.2180



21.4668, 12.5842, 55.9439

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.



71.2069, 46.7471, 86.0662



31.4112, 46.7471, 12.2180



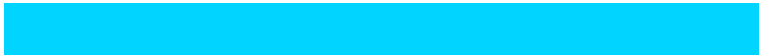
46.9901, 46.7471, 159.7982

Square

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



31.4112, 46.7471, 12.2180



27.1513, 46.7471, 104.9811



60.6292, 46.7471, 133.3375



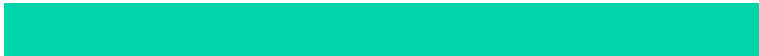
67.8235, 46.7471, 19.5647

Rectangle

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



31.4112, 46.7471, 12.2180



23.9507, 46.7471, 45.8478



60.6292, 46.7471, 133.3375



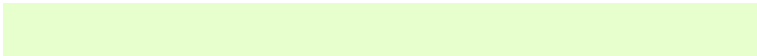
74.1510, 46.7471, 56.3096

Sweetspot

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



31.4123, 46.7491, 12.2190



79.3719, 92.7437, 70.8447



32.6939, 28.5458, 8.6379



16.5721, 19.6569, 14.2055



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.



31.4123, 46.7491, 12.2190



49.4860, 78.5393, 15.1259



23.8459, 42.8485, 11.8649



11.0093, 12.1517, 11.3280



16.7884, 28.1500, 4.5487



0.8783, 1.3759, 0.2193

Inverse Universe

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



21.4668, 12.5842, 55.9439



31.1244, 15.4046, 95.9407



35.4791, 19.8078, 56.5997



10.5384, 10.5358, 13.3957



9.8704, 4.3226, 35.0585



0.5509, 0.2477, 1.6639

Previews

White Background



This preview shows how the XYZ color 31.4112, 46.7471, 12.2180 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 31.4112, 46.7471, 12.2180 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 31.4112, 46.7471, 12.2180

Background



This preview shows how black text looks on a background with the XYZ color 31.4112, 46.7471, 12.2180.



This preview shows how white text looks on a background with the XYZ color 31.4112, 46.7471,

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

31.4112, 46.7471, 12.2180

Protanopia

41.9419, 46.0600, 10.8176

Deuteranopia

47.0399, 46.0070, 12.8795



Tritanopia

41.5679, 46.5772, 62.6766

Trichromacy



Original Color

31.4112, 46.7471, 12.2180

Protanomaly

37.1856, 45.7683, 11.2892

Deuteranomaly

39.5717, 45.1046, 12.4148

Tritanomaly

36.3712, 46.0773, 36.6826

Monochromacy



Original Color

31.4112, 46.7471, 12.2180

Achromatopsia

35.7637, 37.6262, 40.9749

Achromatomaly

33.1431, 40.2693, 26.4480

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.4112, 46.7471, 12.2180 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(134, 200, 64)` looks like.

```
.text, #text, p{  
    color:rgb(134, 200, 64)  
}
```

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(134, 200, 64) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(134, 200, 64) }
```

Border

The CSS property to change the border of an element to XYZ 31.4112, 46.7471, 12.2180 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(134, 200, 64) }
```


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

```
.border{ border-color:rgb(134, 200, 64) }
```

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

Here you see how a box with a 4 pixel `rgb(134, 200, 64)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(134, 200, 64); -webkit-box-  
shadow:4px 4px 4px 4px rgb(134, 200, 64);  
box-shadow:4px 4px 4px 4px rgb(134, 200,  
64) }
```

Background

The CSS property to change the background color of an element to XYZ 31.4112, 46.7471, 12.2180 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(134, 200, 64) }
```

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

```
.background{ background-color: rgb(134,  
200, 64) }
```

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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