

Converting Colors

XYZ(33.0118, 49.5561, 12.8528)

Have a look what the booklet for
XYZ(33.0118, 49.5561, 12.8528)
contains.

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Color

**XYZ(33.0171, 49.6752,
12.8491)**

Conversions

Conversions Part 1

| Format | Color |
|---------------|----------------------------|
| Hex | 87CE41 |
| RGB | 135, 206, 65 |
| RGB Percent | 53%, 81%, 25% |
| CMY | 0.4706, 0.1921, 0.7451 |
| CMYK | 0.34, 0.00, 0.68, 0.19 |
| HSL | 90°, 59%, 53% |
| HSV | 90°, 68%, 81% |
| XYZ | 33.0171, 49.6752, 12.8491 |
| YIQ | 168.6970, 2.9450, -58.9030 |

Conversions

Conversions Part 2

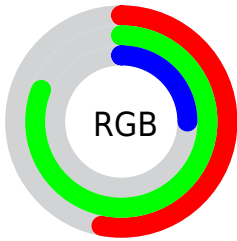
| Format | Color |
|-------------------------------------|---------------------------------|
| RYB | 65, 206, 136 |
| Decimal | 8900161 |
| CIELab | 75.87, -44.51, 60.30 |
| CIELCh | 76, 74.943, 126.432 |
| Yxy | 49.6752, 0.3456, 0.5199 |
| Android (android.graphics.Color) | 4287090241 (0xFF87CE41) |
| YUV | 168.6970, -51.1226, -29.5523 |
| Hunter-Lab | 70.4806, -39.7217, 38.5275 |

Details

The XYZ color **33.0171, 49.6752, 12.8491** 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 **23.1866, 13.4726, 59.7738**, and the grayscale version is **37.8071, 39.7760, 43.3161**.

A 20% lighter version of the original color is **60.8884, 84.0825, 30.7897**, and **14.2085, 23.7529, 3.8359** is the 20% darker color. If you saturate the color by 10%, you get **30.9375, 48.6615, 10.1849**, and if you desaturate by 10%, it is **35.4792, 50.8641, 16.6687**.

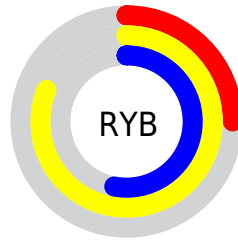
Distribution



Red (53%)

Green (81%)

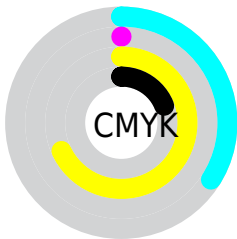
Blue (25%)



Red (25%)

Yellow (81%)

Blue (53%)

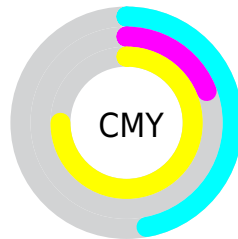


Cyan (34%)

Magenta (0%)

Yellow (68%)

Black (19%)



Cyan (47%)

Magenta (19%)

Yellow (75%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 33.0171, 49.6752, 12.8491 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 33.0171, 49.6752, 12.8491 by changing the saturation by 10% instead.

■ 33.0171, 49.6752,
12.8491

■ 33.0171, 49.6752,
12.8491

307.3904,
385.3944, 221.1221

■ 22.2988, 35.1554,
7.1952

■ 63.7567, 89.6935,
31.7196

■ 14.1945, 23.7826,
3.5042

■ 84.5088, 115.9607,
45.7733

■ 8.3387, 15.1724,
1.3575

■ 109.3362,
146.9125, 63.4641

■ 4.3660, 8.9405,
0.1082

■ 138.6043,
182.9333, 85.2104

■ 1.9112, 4.7024,
0.0000

■ 172.6784,
224.4075, 111.4308

■ 0.5833, 2.0737,
0.0000

211.9239,

■ 0.0000, 0.6498,

271.7195, 142.5438

0.0000

256.7061,
325.2537, 178.9681

■ 0.0000, 0.0000,
0.0000

■ 33.0171, 49.6752,
12.8491

■ 33.0171, 49.6752,
12.8491

■ 30.9375, 48.6615,
10.1849

■ 35.4792, 50.8641,
16.6687

■ 29.2074, 47.8042,
8.5412

■ 38.3461, 52.2324,
21.7526

■ 27.7847, 47.0875,
7.7164

■ 41.6419, 53.7922,
28.2006

■ 27.5819, 46.9851,
7.6153

■ 45.3876, 55.5522,
36.1017

■ 49.6026, 57.5206,
45.5374

■ 54.3049, 59.7051,
56.5830

■ 59.5118, 62.1131,
69.3090

■ 65.2394, 64.7513,
83.7816

■ 71.5029, 67.6265,
100.0635

Harmonies

Analogous

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



44.2748, 49.6752, 8.0452



33.0171, 49.6752, 12.8491



26.6597, 49.6752, 28.8324

Triad

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



33.0171, 49.6752, 12.8491



37.2872, 49.6752, 159.3860



79.1767, 49.6752, 45.9347

Complementary

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



33.0171, 49.6752, 12.8491



23.1866, 13.4726, 59.7738

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.



76.2945, 49.6752, 90.9571



33.0171, 49.6752, 12.8491



50.2821, 49.6752, 171.8672

Square

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



33.0171, 49.6752, 12.8491



28.7644, 49.6752, 113.6924



64.9911, 49.6752, 142.3529



72.2332, 49.6752, 20.1055

Rectangle

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



33.0171, 49.6752, 12.8491



25.1953, 49.6752, 49.4499



64.9911, 49.6752, 142.3529



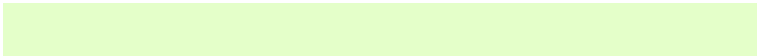
79.3417, 49.6752, 59.0071

Sweetspot

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



33.0183, 49.6774, 12.8502



78.3611, 92.2577, 69.2137



35.1437, 30.9733, 9.1279



16.3603, 19.5545, 13.8881



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.



33.0183, 49.6774, 12.8502



48.7739, 78.1722, 15.0925



25.2069, 45.6505, 12.4846



11.5896, 12.8058, 11.9404



17.0950, 28.9881, 4.6943



0.9695, 1.5406, 0.2463

Inverse Universe

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



23.1866, 13.4726, 59.7738



31.8226, 15.7646, 95.9734



38.4866, 21.3600, 60.4898



11.1311, 11.1169, 14.1295



10.4688, 4.6044, 36.2932



0.6276, 0.2827, 1.8764

Previews

White Background



This preview shows how the XYZ color 33.0171, 49.6752, 12.8491 looks on a white background.

Color Contrast Check

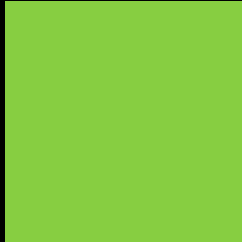
Large Text (above 18pt) WCAG AA × Fail

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 33.0171, 49.6752, 12.8491 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 33.0171, 49.6752, 12.8491

Background



This preview shows how black text looks on a background with the XYZ color 33.0171, 49.6752, 12.8491.



This preview shows how white text looks on a background with the XYZ color 33.0171, 49.6752,

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

33.0171, 49.6752, 12.8491

Protanopia

44.3869, 48.8540, 11.3653

Deuteranopia

49.9471, 48.9412, 13.4707



Tritanopia

43.7524, 49.2219, 66.8693

Trichromacy



Original Color

33.0171, 49.6752, 12.8491

Protanomaly

38.9955, 48.3115, 11.8272

Deuteranomaly

41.8855, 48.1571, 13.0489

Tritanomaly

38.1797, 48.6287, 38.8265

Monochromacy



Original Color

33.0171, 49.6752, 12.8491

Achromatopsia

37.7116, 39.6755, 43.2066

Achromatomaly

34.7293, 42.2627, 27.7998

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.0171, 49.6752, 12.8491 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(135, 206, 65)` looks like.

```
.text, #text, p{  
    color:rgb(135, 206, 65)  
}
```

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(135, 206, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 206, 65) }
```

Border

The CSS property to change the border of an element to XYZ 33.0171, 49.6752, 12.8491 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(135, 206, 65) }
```


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

```
.border{ border-color:rgb(135, 206, 65) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 206, 65)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 206, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 206, 65);  
box-shadow:4px 4px 4px 4px rgb(135, 206,  
65) }
```

Background

The CSS property to change the background color of an element to XYZ 33.0171, 49.6752, 12.8491 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 206, 65) }
```

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

```
.background{ background-color: rgb(135,  
206, 65) }
```

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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