

Converting Colors

XYZ(31.3803, 37.3470, 13.3370)

Have a look what the booklet for
XYZ(31.3803, 37.3470, 13.3370)
contains.

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Color

**XYZ(31.3770, 37.3429,
13.3387)**

Conversions

Conversions Part 1

Format	Color
Hex	A5AA51
RGB	165, 170, 81
RGB Percent	65%, 67%, 32%
CMY	0.3529, 0.3333, 0.6823
CMYK	0.03, 0.00, 0.52, 0.33
HSL	63°, 35%, 49%
HSV	63°, 52%, 67%
XYZ	31.3770, 37.3429, 13.3387
YIQ	158.3590, 25.5890, -28.7390

Conversions

Conversions Part 2

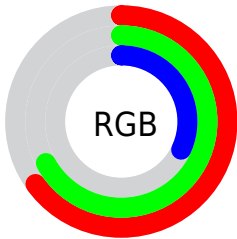
Format	Color
RYB	81, 170, 86
Decimal	10857041
CIELab	67.53, -14.49, 44.69
CIELCh	68, 46.985, 107.969
Yxy	37.3429, 0.3824, 0.4551
Android (android.graphics.Color)	4289047121 (0xFFA5AA51)
YUV	158.3590, -38.1380, 5.8242
Hunter-Lab	61.1088, -15.2877, 29.8345

Details

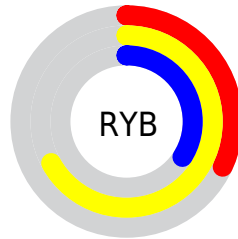
The XYZ color **31.3770, 37.3429, 13.3387** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **14.0371, 10.7664, 39.3708**, and the grayscale version is **32.8231, 34.5325, 37.6059**.

A 20% lighter version of the original color is **61.2831, 71.0735, 32.6789**, and **13.2683, 16.4301, 3.7003** is the 20% darker color. If you saturate the color by 10%, you get **30.6200, 37.0185, 10.3822**, and if you desaturate by 10%, it is **32.2969, 37.7353, 17.1374**.

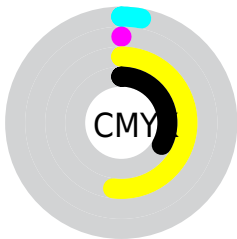
Distribution



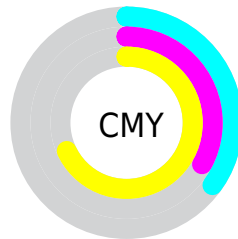
- Red (65%)
- Green (67%)
- Blue (32%)



- Red (32%)
- Yellow (67%)
- Blue (34%)



- Cyan (3%)
- Magenta (0%)
- Yellow (52%)
- Black (33%)



- Cyan (35%)
- Magenta (33%)
- Yellow (68%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.3770, 37.3429, 13.3387 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 31.3770, 37.3429, 13.3387 by changing the saturation by 10% instead.

■ 31.3770, 37.3429,
13.3387

■ 31.3770, 37.3429,
13.3387

300.0674,
334.7927, 224.3606

■ 21.0393, 25.4731,
7.5287

■ 61.2049, 71.0999,
32.6110

■ 13.2654, 16.4299,
3.7115

■ 81.4259, 93.7558,
46.9104

■ 7.6898, 9.8289,
1.4684

■ 105.6721,
120.7759, 64.8767

■ 3.9472, 5.2856,
0.1942

■ 134.3087,
152.5446, 86.9285

■ 1.6723, 2.4158,
0.0000

■ 167.7012,
189.4462, 113.4842

■ 0.4389, 0.8340,
0.0000

206.2149,

■ 0.0000, 0.0000,

231.8651, 144.9624

0.0000

250.2152,
280.1859, 181.7817

■ 31.3770, 37.3429,
13.3387

■ 31.3770, 37.3429,
13.3387

■ 30.6200, 37.0185,
10.3822

■ 32.2969, 37.7353,
17.1374

■ 30.0110, 36.7522,
8.2016

■ 33.3880, 38.1949,
21.8333

■ 29.5370, 36.5401,
6.7245

■ 34.6610, 38.7275,
27.4795

■ 29.1817, 36.3756,
5.8639

■ 36.1251, 39.3368,
34.1243

■ 28.9619, 36.2707,
5.4745

■ 37.7889, 40.0260,
41.8127

■ 39.6604, 40.7986,
50.5871

■ 41.7472, 41.6574,
60.4873

■ 44.0565, 42.6054,
71.5514

■ 46.5952, 43.6453,
83.8153

Harmonies

Analogous

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



38.4691, 37.3429, 12.8376



31.3770, 37.3429, 13.3387



26.1405, 37.3429, 19.4126

Triad

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



31.3770, 37.3429, 13.3387



26.9794, 37.3429, 77.9591



50.8911, 37.3429, 49.5316

Complementary

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



31.3770, 37.3429, 13.3387



14.0371, 10.7664, 39.3708

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.



46.8468, 37.3429, 73.5465



31.3770, 37.3429, 13.3387



32.6751, 37.3429, 93.3183

Square

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



31.3770, 37.3429, 13.3387



23.8489, 37.3429, 54.2134



39.9547, 37.3429, 91.4743



50.4189, 37.3429, 29.5778

Rectangle

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



31.3770, 37.3429, 13.3387



24.1083, 37.3429, 27.4852



39.9547, 37.3429, 91.4743



49.9944, 37.3429, 57.4883

Sweetspot

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



31.3779, 37.3446, 13.3395



64.4531, 70.9160, 56.9431



21.3481, 15.7091, 9.6920



14.2552, 15.7654, 12.1626



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.3779, 37.3446, 13.3395



55.3365, 67.0681, 18.0284



23.7535, 33.4141, 12.9827



8.1046, 8.7520, 8.0514



21.3193, 26.6878, 4.0276



0.5308, 0.6555, 0.0986

Inverse Universe

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



14.0371, 10.7664, 39.3708



20.3994, 13.4841, 70.5294



19.3975, 13.5298, 39.6216



7.1694, 7.3199, 9.4534



5.4415, 2.1886, 28.1111



0.1442, 0.0593, 0.6845

Previews

White Background



This preview shows how the XYZ color 31.3770, 37.3429, 13.3387 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 31.3770, 37.3429, 13.3387 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 31.3770, 37.3429, 13.3387

Background



This preview shows how black text looks on a background with the XYZ color 31.3770, 37.3429, 13.3387.



This preview shows how white text looks on a background with the XYZ color 31.3770, 37.3429,

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

31.3770, 37.3429, 13.3387

Protanopia

34.1578, 37.4199, 12.8196

Deuteranopia

38.0143, 37.3106, 13.5856



Tritanopia

37.7928, 37.2727, 44.7376

Trichromacy



Original Color

31.3770, 37.3429, 13.3387

Protanomaly

33.1712, 37.4467, 13.0690

Deuteranomaly

35.4679, 37.2840, 13.5108

Tritanomaly

34.8037, 37.1023, 30.1381

Monochromacy



Original Color

31.3770, 37.3429, 13.3387

Achromatopsia

32.4990, 34.1914, 37.2345

Achromatomaly

31.6475, 35.0294, 26.2124

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.3770, 37.3429, 13.3387 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(165, 170, 81)` looks like.

```
.text, #text, p{  
    color:rgb(165, 170, 81)  
}
```

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(165, 170, 81) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 170, 81) }
```

Border

The CSS property to change the border of an element to XYZ 31.3770, 37.3429, 13.3387 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(165, 170, 81) }
```


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

```
.border{ border-color:rgb(165, 170, 81) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 170, 81)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 170, 81); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 170, 81);  
box-shadow:4px 4px 4px 4px rgb(165, 170,  
81) }
```

Background

The CSS property to change the background color of an element to XYZ 31.3770, 37.3429, 13.3387 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 170, 81) }
```

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

```
.background{ background-color: rgb(165,  
170, 81) }
```

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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