

Converting Colors

XYZ(31.1225, 37.6913, 13.7669)

Have a look what the booklet for
XYZ(31.1225, 37.6913, 13.7669)
contains.

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Color

**XYZ(31.2141, 37.8110,
13.8367)**

Conversions

Conversions Part 1

Format	Color
Hex	A2AC53
RGB	162, 172, 83
RGB Percent	64%, 67%, 33%
CMY	0.3647, 0.3255, 0.6745
CMYK	0.06, 0.00, 0.52, 0.33
HSL	67°, 35%, 50%
HSV	67°, 52%, 67%
XYZ	31.2141, 37.8110, 13.8367
YIQ	158.8640, 22.6090, -29.7990

Conversions

Conversions Part 2

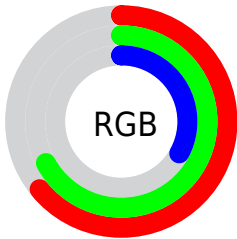
Format	Color
RYB	83, 172, 93
Decimal	10660947
CIELab	67.88, -16.59, 44.07
CIELCh	68, 47.091, 110.631
Yxy	37.8110, 0.3767, 0.4563
Android (android.graphics.Color)	4288851027 (0xFFA2AC53)
YUV	158.8640, -37.4010, 2.7503
Hunter-Lab	61.4906, -16.9978, 29.7019

Details

The XYZ color **31.2141, 37.8110, 13.8367** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **15.0553, 11.4932, 40.4570**, and the grayscale version is **33.0516, 34.7729, 37.8676**.

A 20% lighter version of the original color is **60.7557, 71.5929, 33.5383**, and **13.1615, 16.7254, 3.9011** is the 20% darker color. If you saturate the color by 10%, you get **30.2413, 37.3782, 10.7445**, and if you desaturate by 10%, it is **32.3595, 38.3163, 17.7984**.

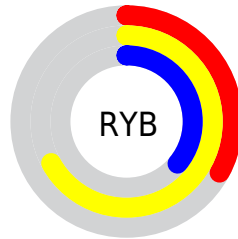
Distribution



Red (64%)

Green (67%)

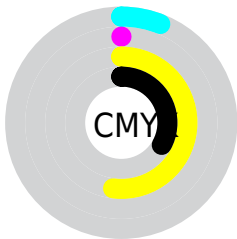
Blue (33%)



Red (33%)

Yellow (67%)

Blue (36%)

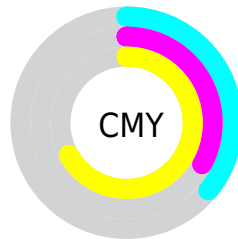


Cyan (6%)

Magenta (0%)

Yellow (52%)

Black (33%)



Cyan (36%)

Magenta (33%)

Yellow (67%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2141, 37.8110, 13.8367 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 31.2141, 37.8110, 13.8367 by changing the saturation by 10% instead.

31.2141, 37.8110,
13.8367

31.2141, 37.8110,
13.8367

299.3328,
336.8085, 227.6056

20.9146, 25.8360,
7.8697

60.9505, 71.8184,
33.5119

13.1737, 16.7010,
3.9251

81.1182, 94.6195,
48.0573

7.6261, 10.0216,
1.5844

105.3058,
121.7982, 66.2992

3.9064, 5.4133,
0.2796

133.8790,
153.7389, 88.6561

1.6493, 2.4917,
0.0000

167.2028,
190.8258, 115.5467

0.4242, 0.8725,
0.0000

205.6429,

0.0000, 0.0000,

233.4435, 147.3894

0.0000

249.5644,
281.9763, 184.6029

■ 31.2141, 37.8110,
13.8367

■ 31.2141, 37.8110,
13.8367

■ 30.2413, 37.3782,
10.7445

■ 32.3595, 38.3163,
17.7984

■ 29.4260, 37.0077,
8.4541

■ 33.6860, 38.8933,
22.6860

■ 28.7548, 36.6956,
6.8916

■ 35.2047, 39.5479,
28.5537

■ 28.2110, 36.4351,
5.9684

■ 36.9250, 40.2838,
35.4512

■ 27.8278, 36.2469,
5.5297

■ 38.8557, 41.1047,
43.4246

■ 41.0050, 42.0137,
52.5171

■ 43.3808, 43.0140,
62.7699

■ 45.9905, 44.1085,
74.2217

■ 48.8411, 45.3002,
86.9097

Harmonies

Analogous

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



38.2731, 37.8110, 12.8727



31.2141, 37.8110, 13.8367



26.1388, 37.8110, 20.5659

Triad

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



31.2141, 37.8110, 13.8367



27.7465, 37.8110, 80.7427



51.6500, 37.8110, 48.0702

Complementary

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



31.2141, 37.8110, 13.8367



15.0553, 11.4932, 40.4570

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.



47.9237, 37.8110, 72.3114



31.2141, 37.8110, 13.8367



33.7002, 37.8110, 94.9627

Square

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



31.2141, 37.8110, 13.8367



24.3332, 37.8110, 57.0274



41.1165, 37.8110, 91.4415



50.7471, 37.8110, 28.5634

Rectangle

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



31.2141, 37.8110, 13.8367



24.2517, 37.8110, 29.2202



41.1165, 37.8110, 91.4415



50.8803, 37.8110, 56.0001

Sweetspot

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



31.2150, 37.8127, 13.8375



65.5194, 72.4513, 58.3890



22.3944, 17.0332, 10.2915



14.1055, 15.6882, 12.1556



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.



31.2150, 37.8127, 13.8375



54.6404, 67.7071, 18.8400



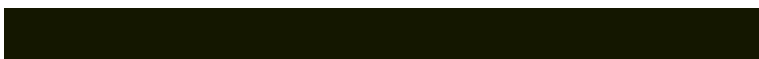
23.8683, 34.0253, 13.4937



8.5727, 9.2838, 8.5535



20.7362, 26.9870, 4.1161



0.6015, 0.7634, 0.1157

Inverse Universe

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



15.0553, 11.4932, 40.4570



22.1358, 14.7051, 72.4774



20.7593, 14.4337, 40.7239



7.6594, 7.7987, 10.0543



5.7710, 2.3349, 29.1910



0.1864, 0.0783, 0.8133

Previews

White Background



This preview shows how the XYZ color 31.2141, 37.8110, 13.8367 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 31.2141, 37.8110, 13.8367 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 31.2141, 37.8110, 13.8367

Background



This preview shows how black text looks on a background with the XYZ color 31.2141, 37.8110, 13.8367.



This preview shows how white text looks on a background with the XYZ color 31.2141, 37.8110,

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

31.2141, 37.8110, 13.8367

Protanopia

34.4688, 37.5716, 13.2199

Deuteranopia

38.4059, 37.4986, 14.2306



Tritanopia

37.6715, 37.7065, 45.8500

Trichromacy



Original Color

31.2141, 37.8110, 13.8367

Protanomaly

33.2048, 37.7284, 13.5149

Deuteranomaly

35.3391, 37.2039, 14.1226

Tritanomaly

34.6672, 37.5503, 31.0120

Monochromacy



Original Color

31.2141, 37.8110, 13.8367

Achromatopsia

32.9542, 34.6704, 37.7561

Achromatomaly

31.8694, 35.6632, 26.6767

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.2141, 37.8110, 13.8367 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(162, 172, 83)` looks like.

```
.text, #text, p{  
    color:rgb(162, 172, 83)  
}
```

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(162, 172, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 172, 83) }
```

Border

The CSS property to change the border of an element to XYZ 31.2141, 37.8110, 13.8367 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(162, 172, 83) }
```


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

```
.border{ border-color:rgb(162, 172, 83) }
```

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

Here you see how a box with a 4 pixel rgb(162, 172, 83) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 172, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 172, 83);  
box-shadow:4px 4px 4px 4px rgb(162, 172,  
83) }
```

Background

The CSS property to change the background color of an element to XYZ 31.2141, 37.8110, 13.8367 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 172, 83) }
```

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

```
.background{ background-color: rgb(162,  
172, 83) }
```

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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