

# Converting Colors

XYZ(30.1407, 37.3888, 13.7197)

Have a look what the booklet for  
XYZ(30.1407, 37.3888, 13.7197)  
contains.

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# Color

**XYZ(30.0242, 37.1975,  
13.7810)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9CAC53
RGB	156, 172, 83
RGB Percent	61%, 67%, 33%
CMY	0.3882, 0.3255, 0.6745
CMYK	0.09, 0.00, 0.52, 0.33
HSL	71°, 35%, 50%
HSV	71°, 52%, 67%
XYZ	30.0242, 37.1975, 13.7810
YIQ	157.0700, 19.0330, -31.0710

# Conversions

## Conversions Part 2

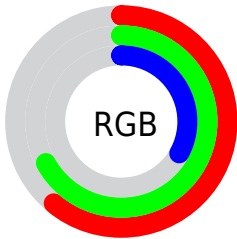
<b>Format</b>	<b>Color</b>
<b>RYB</b>	83, 172, 99
Decimal	10267731
CIELab	67.42, -19.07, 43.42
CIELCh	67, 47.422, 113.707
Yxy	37.1975, 0.3707, 0.4592
Android (android.graphics.Color)	4288457811 (0xFF9CAC53)
YUV	157.0700, -36.5165, -0.9384
Hunter-Lab	60.9898, -18.8596, 29.2959

# Details

The XYZ color **30.0242, 37.1975, 13.7810** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **15.6866, 11.8186, 40.4863**, and the grayscale version is **32.2334, 33.9120, 36.9302**.

A 20% lighter version of the original color is **58.9936, 70.6845, 33.4558**, and **12.5845, 16.4263, 3.9462** is the 20% darker color. If you saturate the color by 10%, you get **28.8502, 36.6610, 10.6794**, and if you desaturate by 10%, it is **31.3800, 37.8112, 17.7525**.

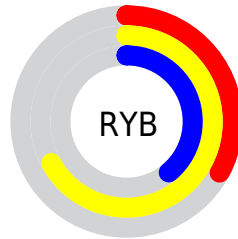
# Distribution



Red (61%)

Green (67%)

Blue (33%)



Red (33%)

Yellow (67%)

Blue (39%)

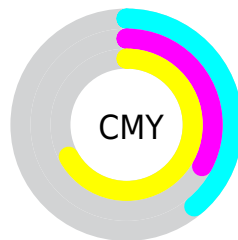


Cyan (9%)

Magenta (0%)

Yellow (52%)

Black (33%)



Cyan (39%)

Magenta (33%)

Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.0242, 37.1975, 13.7810 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 30.0242, 37.1975, 13.7810 by changing the saturation by 10% instead.



30.0242, 37.1975,  
13.7810

30.0242, 37.1975,  
13.7810

293.9250,  
334.1648, 227.2450

20.0051, 25.3604,  
7.8315

59.0868, 70.8764,  
33.4115

12.5071, 16.3458,  
3.9011

78.8611, 93.4871,  
47.9295

7.1646, 9.7692,  
1.5712

102.6177,  
120.4578, 66.1408

3.6125, 5.2462,  
0.2702

130.7222,  
152.1728, 88.4639

1.4853, 2.3924,  
0.0000

163.5398,  
189.0167, 115.3173

0.3158, 0.8220,  
0.0000

201.4359,

0.0000, 0.0000,

231.3737, 147.1196

0.0000

244.7759,  
279.6282, 184.2893

■ 30.0242, 37.1975,  
13.7810

■ 30.0242, 37.1975,  
13.7810

■ 28.8502, 36.6610,  
10.6794

■ 31.3800, 37.8112,  
17.7525

■ 27.8429, 36.1915,  
8.3800

■ 32.9261, 38.5014,  
22.6503

■ 26.9887, 35.7850,  
6.8090

■ 34.6738, 39.2741,  
28.5288

■ 26.2708, 35.4348,  
5.8776

■ 36.6326, 40.1330,  
35.4374

■ 25.7506, 35.1760,  
5.4324

■ 38.8112, 41.0816,  
43.4224

■ 41.2182, 42.1234,  
52.5269

■ 43.8613, 43.2615,  
62.7922

■ 46.7480, 44.4989,  
74.2569

■ 49.8856, 45.8385,  
86.9583

# Harmonies

## Analogous

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



36.9106, 37.1975, 12.3070



30.0242, 37.1975, 13.7810



25.2370, 37.1975, 21.1163

# Triad

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



30.0242, 37.1975, 13.7810



27.7051, 37.1975, 82.1295



51.1605, 37.1975, 45.0534

# Complementary

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



30.0242, 37.1975, 13.7810



15.6866, 11.8186, 40.4863

# 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.



47.8699, 37.1975, 69.1419



30.0242, 37.1975, 13.7810



33.8439, 37.1975, 94.7937

# Square

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



30.0242, 37.1975, 13.7810



24.0321, 37.1975, 58.8373



41.2824, 37.1975, 89.3671



49.7710, 37.1975, 26.4362



# Rectangle

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



30.0242, 37.1975, 13.7810



23.5570, 37.1975, 30.2705



41.2824, 37.1975, 89.3671



50.5521, 37.1975, 52.8120

# Sweetspot

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



30.0251, 37.1992, 13.7818



64.7906, 72.0756, 58.3549



22.9280, 18.1004, 10.4694



13.9285, 15.5970, 12.1473



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.



30.0251, 37.1992, 13.7818



52.0686, 66.3813, 18.7197



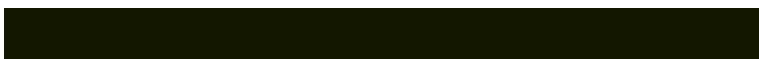
23.0824, 33.6201, 13.4569



8.5193, 9.2563, 8.5510



19.2035, 26.1968, 4.0444



0.5705, 0.7475, 0.1142



# Inverse Universe

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



15.6866, 11.8186, 40.4863



23.2453, 15.2771, 72.5294



21.7535, 14.9463, 40.7703



7.7083, 7.8239, 10.0566



5.9948, 2.4503, 29.2015



0.2058, 0.0883, 0.8142



# Previews

## White Background



This preview shows how the XYZ color 30.0242, 37.1975, 13.7810 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 30.0242, 37.1975, 13.7810 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

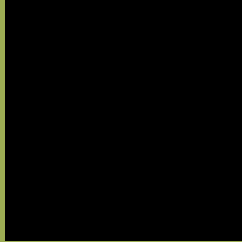
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 30.0242, 37.1975, 13.7810

## Background



This preview shows how black text looks on a background with the XYZ color 30.0242, 37.1975, 13.7810.



This preview shows how white text looks on a background with the XYZ color 30.0242, 37.1975,



# 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

30.0242, 37.1975, 13.7810

### Protanopia

33.7795, 36.9539, 12.9419

### Deuteranopia

37.6962, 36.8826, 14.1491



## Tritanopia

36.5945, 37.1513, 45.7996

# Trichromacy



## Original Color

30.0242, 37.1975, 13.7810

## Protanomaly

32.3172, 37.0022, 13.2234

## Deuteranomaly

34.6076, 36.8268, 14.0884

## Tritanomaly

33.6230, 37.0120, 30.9631

# Monochromacy



## Original Color

30.0242, 37.1975, 13.7810

## Achromatopsia

32.0474, 33.7164, 36.7171

## Achromatomaly

30.8542, 34.6205, 26.1753

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.0242, 37.1975, 13.7810 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(156, 172, 83)` looks like.

```
.text, #text, p{  
    color:rgb(156, 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(156, 172, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 172, 83) }
```

## Border

The CSS property to change the border of an element to XYZ 30.0242, 37.1975, 13.7810 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(156, 172, 83) }
```



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

```
.border{ border-color:rgb(156, 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(156, 172, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(156, 172, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(156, 172, 83);  
box-shadow:4px 4px 4px 4px rgb(156, 172,  
83) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.0242, 37.1975, 13.7810 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 172, 83) }
```

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

```
.background{ background-color: rgb(156,  
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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