

# Converting Colors

XYZ(31.5955, 37.5814, 23.2473)

Have a look what the booklet for  
XYZ(31.5955, 37.5814, 23.2473)  
contains.

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# Color

**XYZ(31.6634, 37.5498,  
23.3483)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9CAB78
RGB	156, 171, 120
RGB Percent	61%, 67%, 47%
CMY	0.3882, 0.3294, 0.5294
CMYK	0.09, 0.00, 0.30, 0.33
HSL	78°, 23%, 57%
HSV	78°, 30%, 67%
XYZ	31.6634, 37.5498, 23.3483
YIQ	160.7010, 7.4310, -19.0410

# Conversions

## Conversions Part 2

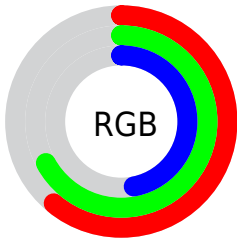
<b>Format</b>	<b>Color</b>
<b>RYB</b>	120, 171, 135
Decimal	10267512
CIELab	67.69, -14.11, 24.58
CIELCh	68, 28.342, 119.859
Yxy	37.5498, 0.3421, 0.4057
Android (android.graphics.Color)	4288457592 (0xFF9CAB78)
YUV	160.7010, -20.0656, -4.1228
Hunter-Lab	61.2779, -15.0021, 20.3037

# Details

The XYZ color **31.6634, 37.5498, 23.3483** is a dark color, and the websafe version is hex **999966**. A complement of this color would be **24.0603, 21.5251, 41.4168**, and the grayscale version is **33.8260, 35.5876, 38.7549**.

A 20% lighter version of the original color is **61.6032, 71.2587, 50.0426**, and **13.4431, 16.5916, 8.4552** is the 20% darker color. If you saturate the color by 10%, you get **29.7639, 36.6811, 18.3174**, and if you desaturate by 10%, it is **33.7906, 38.5167, 29.3589**.

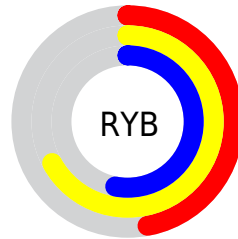
# Distribution



Red (61%)

Green (67%)

Blue (47%)



Red (47%)

Yellow (67%)

Blue (53%)

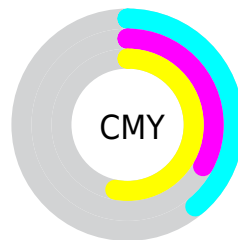


Cyan (9%)

Magenta (0%)

Yellow (30%)

Black (33%)



Cyan (39%)

Magenta (33%)

Yellow (53%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6634, 37.5498, 23.3483 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 31.6634, 37.5498, 23.3483 by changing the saturation by 10% instead.



■ 31.6634, 37.5498,  
23.3483

■ 31.6634, 37.5498,  
23.3483

301.3557,  
335.6848, 282.6886

■ 21.2588, 25.6335,  
14.6432

■ 61.6518, 71.4176,  
49.8950

■ 13.4269, 16.5496,  
8.4255

■ 81.9663, 94.1378,  
68.5737

■ 7.8022, 9.9139,  
4.2768

■ 106.3149,  
121.2281, 91.4140

■ 4.0194, 5.3419,  
1.7784

135.0629,  
153.0729, 118.8345

■ 1.7131, 2.4492,  
0.4136

168.5756,  
190.0566, 151.2536

■ 0.4644, 0.8511,  
0.0000

207.2184,

■ 0.0000, 0.0000,

232.5635, 189.0900

0.0000

251.3566,  
280.9781, 232.7621

■ 31.6634, 37.5498,  
23.3483

■ 31.6634, 37.5498,  
23.3483

■ 29.7639, 36.6811,  
18.3174

■ 33.7906, 38.5167,  
29.3589

■ 28.0787, 35.9015,  
14.2119

■ 36.1521, 39.5809,  
36.3948

■ 26.5976, 35.2081,  
10.9756

■ 38.7579, 40.7475,  
44.5019

■ 25.3082, 34.5958,  
8.5456

■ 41.6166, 42.0200,  
53.7225

■ 24.1962, 34.0589,  
6.8502

■ 44.7360, 43.4018,  
64.0965

■ 23.2453, 33.5909,  
5.8054

■ 48.1240, 44.8959,  
75.6619

■ 22.4207, 33.1776,  
5.2308

■ 51.7877, 46.5052,  
88.4551

■ 22.4067, 33.1706,  
5.2216

■ 55.4423, 48.1160,  
100.9729

■ 56.7751, 48.8030,  
101.0353

# Harmonies

## Analogous

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



35.7107, 37.5498, 21.2154



31.6634, 37.5498, 23.3483



28.8981, 37.5498, 29.9418

# Triad

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



31.6634, 37.5498, 23.3483



31.6303, 37.5498, 65.4598



44.7806, 37.5498, 40.9447

# Complementary

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



31.6634, 37.5498, 23.3483



24.0603, 21.5251, 41.4168

# 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.



43.4704, 37.5498, 54.2153



31.6634, 37.5498, 23.3483



35.6693, 37.5498, 70.0198

# Square

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



31.6634, 37.5498, 23.3483



28.8801, 37.5498, 54.0914



40.0442, 37.5498, 65.5410



43.4940, 37.5498, 30.0253



# Rectangle

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



31.6634, 37.5498, 23.3483



28.0329, 37.5498, 36.7884



40.0442, 37.5498, 65.5410



44.6279, 37.5498, 45.2757

# Sweetspot

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



31.6644, 37.5515, 23.3491



65.0403, 71.0170, 66.0845



28.7735, 27.1900, 21.5015



14.3635, 15.7738, 14.3082



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.



31.6644, 37.5515, 23.3491



54.3453, 66.1695, 35.4926



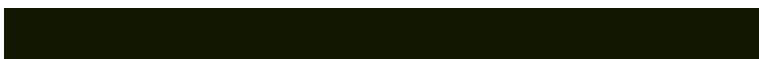
27.3221, 35.3130, 23.1459



8.4297, 9.2101, 8.5468



16.9449, 25.0325, 3.9387



0.5225, 0.7227, 0.1120



# Inverse Universe

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



24.0603, 21.5251, 41.4168



38.4521, 32.6579, 73.2788



28.5557, 23.8426, 41.6272



7.7921, 7.8671, 10.0605



6.5912, 2.7578, 29.2294



0.2387, 0.1052, 0.8157



# Previews

## White Background



This preview shows how the XYZ color 31.6634, 37.5498, 23.3483 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

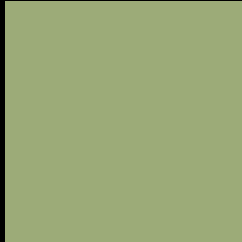
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.6634, 37.5498, 23.3483 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 31.6634, 37.5498, 23.3483**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.6634, 37.5498, 23.3483.



This preview shows how white text looks on a background with the XYZ color 31.6634, 37.5498,



# 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

31.6634, 37.5498, 23.3483

### Protanopia

34.7975, 37.5417, 22.2419

### Deuteranopia

38.0501, 37.3531, 23.9433



## Tritanopia

36.5211, 37.6178, 46.9311

# Trichromacy



## Original Color

31.6634, 37.5498, 23.3483

## Protanomaly

33.4509, 37.3805, 22.5916

## Deuteranomaly

35.4324, 37.3028, 23.7450

## Tritanomaly

34.5174, 37.6148, 36.8936

# Monochromacy



## Original Color

31.6634, 37.5498, 23.3483

## Achromatopsia

33.8758, 35.6400, 38.8120

## Achromatomaly

32.9415, 36.3565, 32.4754

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.6634, 37.5498, 23.3483 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, 171, 120)` looks like.

```
.text, #text, p{  
    color:rgb(156, 171, 120)  
}
```

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, 171, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 171, 120) }
```

## Border

The CSS property to change the border of an element to XYZ 31.6634, 37.5498, 23.3483 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".

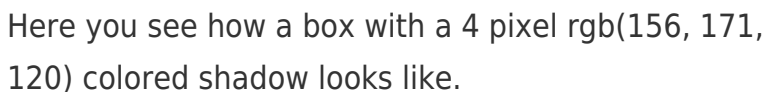
```
.border, #border, table{ border:4px solid rgb(156, 171, 120) }
```



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

```
.border{ border-color:rgb(156, 171, 120) }
```

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



Here you see how a box with a 4 pixel `rgb(156, 171, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(156, 171, 120); -webkit-box-shadow:4px 4px 4px 4px rgb(156, 171, 120); box-shadow:4px 4px 4px 4px rgb(156, 171, 120) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.6634, 37.5498, 23.3483 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 171, 120) }
```

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

```
.background{ background-color: rgb(156,  
171, 120) }
```

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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