

# Converting Colors

XYZ(31.8282, 37.5801, 40.4540)

Have a look what the booklet for  
XYZ(31.8282, 37.5801, 40.4540)  
contains.

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# Color

**XYZ(31.6799, 37.4678,  
40.2126)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89ACA3
RGB	137, 172, 163
RGB Percent	54%, 67%, 64%
CMY	0.4627, 0.3255, 0.3608
CMYK	0.20, 0.00, 0.05, 0.33
HSL	165°, 17%, 61%
HSV	165°, 20%, 67%
XYZ	31.6799, 37.4678, 40.2126
YIQ	160.5090, -17.9710, -10.2190

# Conversions

## Conversions Part 2

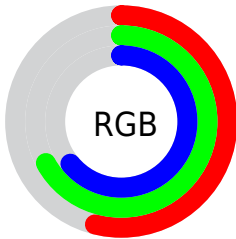
<b>Format</b>	<b>Color</b>
<b>RYB</b>	137, 157, 172
Decimal	9022627
CIELab	67.63, -13.79, 0.69
CIELCh	68, 13.805, 177.132
Yxy	37.4678, 0.2897, 0.3426
Android (android.graphics.Color)	4287212707 (0xFF89ACA3)
YUV	160.5090, 1.2281, -20.6174
Hunter-Lab	61.2109, -14.7360, 3.8970

# Details

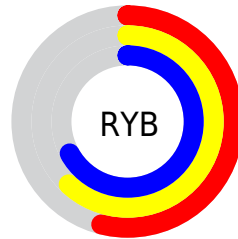
The XYZ color **31.6799, 37.4678, 40.2126** is a light color, and the websafe version is hex **669999**. A complement of this color would be **31.1486, 28.7382, 31.1011**, and the grayscale version is **33.6499, 35.4024, 38.5532**.

A 20% lighter version of the original color is **61.6098, 71.0765, 76.8016**, and **13.4235, 16.5591, 17.5277** is the 20% darker color. If you saturate the color by 10%, you get **28.6928, 35.9739, 38.0403**, and if you desaturate by 10%, it is **35.1325, 39.2021, 42.4807**.

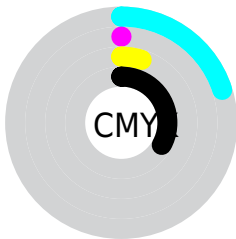
# Distribution



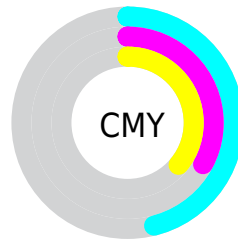
- Red (54%)
- Green (67%)
- Blue (64%)



- Red (54%)
- Yellow (62%)
- Blue (67%)



- Cyan (20%)
- Magenta (0%)
- Yellow (5%)
- Black (33%)



- Cyan (46%)
- Magenta (33%)
- Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6799, 37.4678, 40.2126 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 31.6799, 37.4678, 40.2126 by changing the saturation by 10% instead.



■ 31.6799, 37.4678,  
40.2126

■ 31.6799, 37.4678,  
40.2126

301.4298,  
335.3314, 362.5975

■ 21.2715, 25.5699,  
27.3893

■ 61.6775, 71.2917,  
76.7278

■ 13.4362, 16.5022,  
17.6308

■ 81.9974, 93.9864,  
101.2567

■ 7.8086, 9.8802,  
10.5186

■ 106.3519,  
121.0489, 130.5246

■ 4.0235, 5.3196,  
5.6340

135.1062,  
152.8636, 164.9500

■ 1.7155, 2.4360,  
2.5587

168.6259,  
189.8148, 204.9515

■ 0.4659, 0.8443,  
0.8710

207.2761,

■ 0.0000, 0.0000,

232.2869, 250.9475

0.0000

251.4223,  
280.6643, 303.3567

■ 31.6799, 37.4678,  
40.2126

■ 31.6799, 37.4678,  
40.2126

■ 28.6928, 35.9739,  
38.0403

■ 35.1325, 39.2021,  
42.4807

■ 26.1466, 34.7047,  
35.9595

■ 39.0675, 41.1824,  
44.8437

■ 24.0193, 33.6499,  
33.9692

■ 43.5045, 43.4199,  
47.3040

■ 22.2855, 32.7964,  
32.0675

■ 48.4616, 45.9239,  
49.8631

■ 20.9174, 32.1298,  
30.2524

■ 53.9554, 48.7029,  
52.5226

■ 19.8829, 31.6338,  
28.5215

■ 60.0022, 51.7652,  
55.2839

■ 19.1445, 31.2889,  
26.8723

■ 65.7273, 54.6601,  
58.1067

■ 18.6340, 31.0588,  
25.3538

■ 66.2316, 54.8618,  
60.7624

■ 66.7509, 55.0695,  
63.4966

# Harmonies

## Analogous

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



32.2848, 37.4678, 34.7614



31.6799, 37.4678, 40.2126



32.0934, 37.4678, 46.3767

# Triad

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



31.6799, 37.4678, 40.2126



37.5107, 37.4678, 52.1383



37.8790, 37.4678, 31.7242

# Complementary

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



31.6799, 37.4678, 40.2126



31.1486, 28.7382, 31.1011

# 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.



39.3788, 37.4678, 35.6821



31.6799, 37.4678, 40.2126



39.1603, 37.4678, 47.4916

# Square

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



31.6799, 37.4678, 40.2126



35.4077, 37.4678, 53.6541



39.8567, 37.4678, 41.3851



35.8171, 37.4678, 30.1763



# Rectangle

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



31.6799, 37.4678, 40.2126



32.9004, 37.4678, 50.0012



39.8567, 37.4678, 41.3851



38.4687, 37.4678, 32.7963

# Sweetspot

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



31.6810, 37.4694, 40.2134



66.6517, 72.5831, 78.8597



31.1825, 37.4544, 29.2534



14.3897, 15.7260, 17.0803



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.



31.6810, 37.4694, 40.2134



55.1600, 66.8139, 71.3207



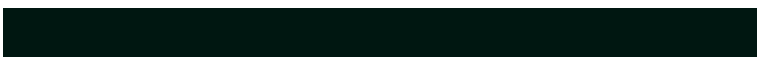
31.0097, 34.7896, 44.1123



8.1470, 9.0364, 9.7992



13.8893, 23.1210, 18.9884



0.4070, 0.6514, 0.6365



# Inverse Universe

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



31.1486, 28.7382, 31.1011



54.0348, 48.3424, 52.0483



31.6807, 30.8796, 27.9580



8.0866, 8.0479, 8.7671



13.0218, 6.6713, 2.4945



0.3845, 0.1945, 0.1868



# Previews

## White Background



This preview shows how the XYZ color 31.6799, 37.4678, 40.2126 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

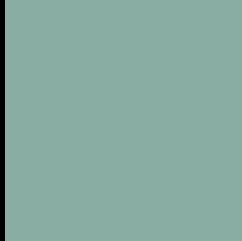
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.6799, 37.4678, 40.2126 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

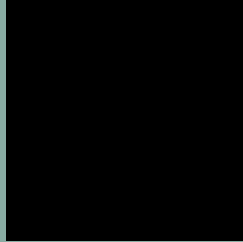
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 31.6799, 37.4678, 40.2126**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.6799, 37.4678, 40.2126.



This preview shows how white text looks on a background with the XYZ color 31.6799, 37.4678,



# 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

31.6799, 37.4678, 40.2126

### Protanopia

35.8092, 37.4546, 37.6899

### Deuteranopia

37.8715, 37.1332, 41.2478



## **Tritanopia**

33.7197, 37.4576, 50.2526

# Trichromacy



## Original Color

31.6799, 37.4678, 40.2126

## Protanomaly

34.0685, 37.3436, 38.6701

## Deuteranomaly

35.3768, 37.1600, 40.9054

## Tritanomaly

33.0264, 37.4595, 46.5640

# Monochromacy



## Original Color

31.6799, 37.4678, 40.2126

## Achromatopsia

33.8758, 35.6400, 38.8120

## Achromatomaly

32.9256, 36.1943, 39.4333

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.6799, 37.4678, 40.2126 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(137, 172, 163)` looks like.

```
.text, #text, p{  
    color:rgb(137, 172, 163)  
}
```

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(137, 172, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 172, 163) }
```

## Border

The CSS property to change the border of an element to XYZ 31.6799, 37.4678, 40.2126 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(137, 172, 163) }
```



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

```
.border{ border-color:rgb(137, 172, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 172, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 172, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 172, 163);  
box-shadow:4px 4px 4px 4px rgb(137, 172,  
163) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.6799, 37.4678, 40.2126 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 172, 163) }
```

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

```
.background{ background-color: rgb(137,  
172, 163) }
```

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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