

# Converting Colors

XYZ(31.7776, 34.9014, 31.5648)

Have a look what the booklet for  
XYZ(31.7776, 34.9014, 31.5648)  
contains.

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# Color

**XYZ(31.8590, 35.0224,  
31.4664)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9DA290
RGB	157, 162, 144
RGB Percent	62%, 64%, 56%
CMY	0.3843, 0.3647, 0.4353
CMYK	0.03, 0.00, 0.11, 0.36
HSL	77°, 9%, 60%
HSV	77°, 11%, 64%
XYZ	31.8590, 35.0224, 31.4664
YIQ	158.4530, 2.7980, -6.6580

# Conversions

## Conversions Part 2

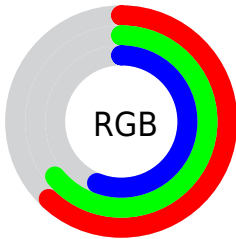
<b>Format</b>	<b>Color</b>
<b>RYB</b>	144, 162, 149
Decimal	10330768
CIELab	65.77, -5.12, 8.75
CIELCh	66, 10.134, 120.323
Yxy	35.0224, 0.3239, 0.3561
Android (android.graphics.Color)	4288520848 (0xFF9DA290)
YUV	158.4530, -7.1253, -1.2743
Hunter-Lab	59.1797, -7.4703, 9.9008

# Details

The XYZ color **31.8590, 35.0224, 31.4664** is a light color, and the websafe version is hex **999999**. A complement of this color would be **28.8907, 28.9457, 38.2487**, and the grayscale version is **32.7365, 34.4413, 37.5066**.

A 20% lighter version of the original color is **62.1573, 67.7000, 63.2174**, and **13.5402, 15.0242, 12.7760** is the 20% darker color. If you saturate the color by 10%, you get **29.8466, 34.1190, 25.3660**, and if you desaturate by 10%, it is **34.0834, 36.0167, 38.5058**.

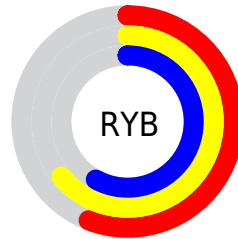
# Distribution



Red (62%)

Green (64%)

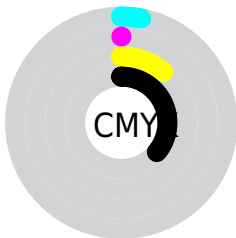
Blue (56%)



Red (56%)

Yellow (64%)

Blue (58%)

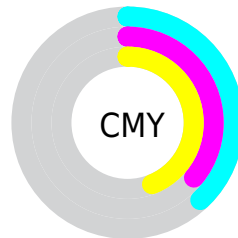


Cyan (3%)

Magenta (0%)

Yellow (11%)

Black (36%)



Cyan (38%)

Magenta (36%)

Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8590, 35.0224, 31.4664 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 31.8590, 35.0224, 31.4664 by changing the saturation by 10% instead.



■ 31.8590, 35.0224,  
31.4664

■ 31.8590, 35.0224,  
31.4664

302.2332,  
324.6672, 323.0988

■ 21.4088, 23.6801,  
20.6928

■ 61.9567, 67.5205,  
63.0618

■ 13.5373, 15.0965,  
12.7106

■ 82.3349, 89.4451,  
84.7207

■ 7.8791, 8.8871,  
7.1012

106.7532,  
115.6659, 110.8451

■ 4.0689, 4.6676,  
3.4461

135.5769,  
146.5673, 141.8535

■ 1.7412, 2.0536,  
1.3267

169.1714,  
182.5338, 178.1646

■ 0.4818, 0.6383,  
0.0835

207.9021,

■ 0.0000, 0.0000,

223.9496, 220.1968

0.0000

252.1342,  
271.1993, 268.3687

■ 31.8590, 35.0224,  
31.4664

■ 31.8590, 35.0224,  
31.4664

■ 29.8466, 34.1190,  
25.3660

■ 34.0834, 36.0167,  
38.5058

■ 28.0355, 33.2986,  
20.1625

■ 36.5244, 37.1002,  
46.5192

■ 26.4181, 32.5594,  
15.8143

■ 39.1900, 38.2774,  
55.5426

■ 24.9856, 31.8977,  
12.2753

■ 42.0868, 39.5510,  
65.6096

■ 23.7278, 31.3095,  
9.4953

■ 45.2213, 40.9235,  
76.7521

■ 22.6339, 30.7904,  
7.4183

■ 48.5995, 42.3974,  
89.0008

■ 21.6913, 30.3354,  
5.9808

■ 51.8379, 43.8194,  
100.3336

■ 20.8856, 29.9385,  
5.1077

■ 52.9685, 44.4022,  
100.3865

■ 20.2544, 29.6226,  
4.6502

■ 54.1341, 45.0031,  
100.4410

# Harmonies

## Analogous

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



33.2716, 35.0224, 30.4871



31.8590, 35.0224, 31.4664



30.8548, 35.0224, 34.2051

# Triad

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



31.8590, 35.0224, 31.4664



31.8862, 35.0224, 45.7337



36.2424, 35.0224, 38.0871

# Complementary

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



31.8590, 35.0224, 31.4664



28.8907, 28.9457, 38.2487

# 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.



35.8453, 35.0224, 42.3515



31.8590, 35.0224, 31.4664



33.3039, 35.0224, 46.9620

# Square

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



31.8590, 35.0224, 31.4664



30.8702, 35.0224, 42.4377



34.7586, 35.0224, 45.6814



35.8283, 35.0224, 34.1305



# Rectangle

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



31.8590, 35.0224, 31.4664



30.5367, 35.0224, 36.7678



34.7586, 35.0224, 45.6814



36.1992, 35.0224, 39.5325

# Sweetspot

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



31.8600, 35.0239, 31.4672



61.0576, 65.0193, 67.2799



30.6514, 31.1278, 30.7788



13.6402, 14.5705, 14.8771



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430



# Same Dimension

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



31.8600, 35.0239, 31.4672



57.0247, 63.2164, 54.6184



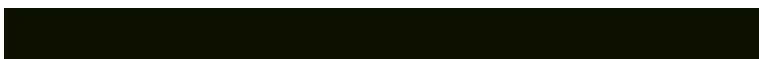
30.2045, 34.1705, 31.3897



7.4566, 8.1379, 7.5578



15.9993, 23.3584, 3.6654



0.3782, 0.5125, 0.0790



# Inverse Universe

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



28.8907, 28.9457, 38.2487



50.6914, 50.2512, 69.0839



30.5573, 29.8049, 38.3267



6.8767, 6.9508, 8.8823



6.0284, 2.5142, 27.0973



0.1701, 0.0752, 0.5714



# Previews

## White Background



This preview shows how the XYZ color 31.8590, 35.0224, 31.4664 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 31.8590, 35.0224, 31.4664 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

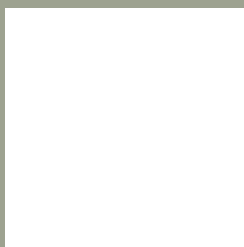
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 31.8590, 35.0224, 31.4664**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.8590, 35.0224, 31.4664.



This preview shows how white text looks on a background with the XYZ color 31.8590, 35.0224,



# 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

31.8590, 35.0224, 31.4664

### Protanopia

33.0819, 34.8864, 30.9768

### Deuteranopia

35.5663, 34.8898, 32.0540



## Tritanopia

34.2755, 34.9711, 43.4717

# Trichromacy



## Original Color

31.8590, 35.0224, 31.4664

## Protanomaly

32.6330, 34.9113, 31.0052

## Deuteranomaly

34.1811, 34.9289, 31.7285

## Tritanomaly

33.3284, 34.8431, 38.6870

# Monochromacy



## Original Color

31.8590, 35.0224, 31.4664

## Achromatopsia

32.4990, 34.1914, 37.2345

## Achromatomaly

32.2485, 34.3653, 35.0705

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.8590, 35.0224, 31.4664 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(157, 162, 144)` looks like.

```
.text, #text, p{  
    color:rgb(157, 162, 144)  
}
```

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(157, 162, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 162, 144) }
```

## Border

The CSS property to change the border of an element to XYZ 31.8590, 35.0224, 31.4664 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".

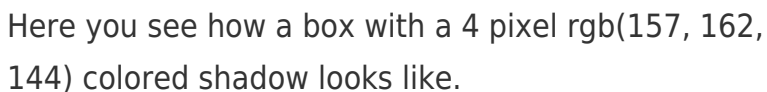
```
.border, #border, table{ border:4px solid rgb(157, 162, 144) }
```



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

```
.border{ border-color:rgb(157, 162, 144) }
```

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



Here you see how a box with a 4 pixel `rgb(157, 162, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(157, 162, 144); -webkit-box-shadow:4px 4px 4px 4px rgb(157, 162, 144); box-shadow:4px 4px 4px 4px rgb(157, 162, 144) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.8590, 35.0224, 31.4664 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 162, 144) }
```

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

```
.background{ background-color: rgb(157,  
162, 144) }
```

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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