

# Converting Colors

XYZ(29.8816, 29.3711, 30.0030)

Have a look what the booklet for  
XYZ(29.8816, 29.3711, 30.0030)  
contains.

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# Color

**XYZ(29.8846, 29.4146,  
30.0891)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A38F8F
RGB	163, 143, 143
RGB Percent	64%, 56%, 56%
CMY	0.3608, 0.4392, 0.4392
CMYK	0.00, 0.12, 0.12, 0.36
HSL	0°, 10%, 60%
HSV	0°, 12%, 64%
XYZ	29.8846, 29.4146, 30.0891
YIQ	148.9800, 11.9200, 4.2400

# Conversions

## Conversions Part 2

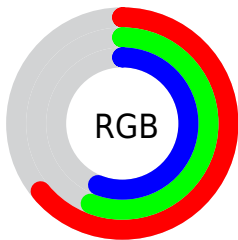
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	163, 143, 143
Decimal	10719119
CIE Lab	61.15, 7.47, 2.74
CIE LCh	61, 7.957, 20.138
Yxy	29.4146, 0.3343, 0.3291
Android (android.graphics.Color)	4288909199 (0xFFFA38F8F)
YUV	148.9800, -2.9481, 12.2955
Hunter-Lab	54.2352, 3.4451, 5.0712

# Details

The XYZ color **29.8846, 29.4146, 30.0891** is a dark color, and the websafe version is hex **999999**. A complement of this color would be **31.0355, 34.6776, 39.7082**, and the grayscale version is **28.5678, 30.0555, 32.7305**.

A 20% lighter version of the original color is **58.9577, 58.8691, 61.0788**, and **12.4457, 11.9985, 12.0159** is the 20% darker color. If you saturate the color by 10%, you get **26.4672, 24.4141, 23.2941**, and if you desaturate by 10%, it is **33.8386, 35.2004, 37.9489**.

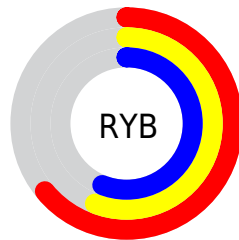
# Distribution



Red (64%)

Green (56%)

Blue (56%)



Red (64%)

Yellow (56%)

Blue (56%)

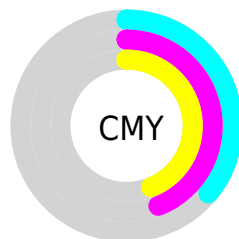


Cyan (0%)

Magenta (12%)

Yellow (12%)

Black (36%)



Cyan (36%)

Magenta (44%)

Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.8846, 29.4146, 30.0891 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 29.8846, 29.4146, 30.0891 by changing the saturation by 10% instead.



■ 29.8846, 29.4146,  
30.0891

■ 29.8846, 29.4146,  
30.0891

293.2857,  
299.1662, 316.5398

■ 19.8986, 19.3947,  
19.6536

■ 58.8675, 58.7352,  
60.8657

■ 12.4292, 11.9558,  
11.9619

■ 78.5952, 78.8046,  
82.0439

■ 7.1110, 6.7136,  
6.5955

■ 102.3008,  
102.9927, 107.6401

■ 3.5786, 3.2836,  
3.1359

130.3497,  
131.6837, 138.0728

■ 1.4666, 1.2815,  
1.1644

163.1073,  
165.2622, 173.7606

■ 0.3029, 0.1268,  
0.0000

200.9390,

■ 0.0000, 0.0000,

204.1125, 215.1220

0.0000

244.2099,  
248.6190, 262.5756

■ 29.8846, 29.4146,  
30.0891

■ 29.8846, 29.4146,  
30.0891

■ 26.4672, 24.4141,  
23.2941

■ 33.8386, 35.2004,  
37.9489

■ 23.5608, 20.1614,  
17.5163

■ 38.3483, 41.7991,  
46.9146

■ 21.1419, 16.6217,  
12.7074

■ 43.4348, 49.2420,  
57.0272

■ 19.1835, 13.7561,  
8.8145

■ 49.1176, 57.5572,  
68.3253

■ 17.6566, 11.5217,  
5.7793

■ 55.4151, 66.7719,  
80.8456

■ 16.5286, 9.8711,  
3.5371

■ 62.3450, 76.9118,  
94.6231

■ 15.7623, 8.7496,  
2.0141

■ 68.9144, 86.5266,  
107.6769

■ 15.3136, 8.0929,  
1.1224

■ 15.1046, 7.7871,  
0.7070

# Harmonies

## Analogous

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



29.9820, 29.4146, 33.0220



29.8846, 29.4146, 30.0891



29.2639, 29.4146, 27.8150

# Triad

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



29.8846, 29.4146, 30.0891



26.4453, 29.4146, 28.4830



27.6154, 29.4146, 38.0306

# Complementary

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



29.8846, 29.4146, 30.0891



31.0355, 34.6776, 39.7082

# 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.



26.6910, 29.4146, 36.6451



29.8846, 29.4146, 30.0891



26.0266, 29.4146, 31.0531

# Square

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



29.8846, 29.4146, 30.0891



27.2724, 29.4146, 26.9285



26.1155, 29.4146, 34.0474



28.6544, 29.4146, 37.7326



# Rectangle

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



29.8846, 29.4146, 30.0891



28.6451, 29.4146, 26.9201



26.1155, 29.4146, 34.0474



27.2814, 29.4146, 37.7432

# Sweetspot

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



29.8854, 29.4159, 30.0897



59.2517, 61.0651, 65.2788



31.5379, 30.0762, 38.7936



13.1875, 13.5391, 14.4224



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.



29.8854, 29.4159, 30.0897



51.5814, 49.8415, 50.0297



31.4537, 32.5525, 30.6125



7.0739, 7.0861, 7.3750



11.7391, 6.0521, 0.5494



0.2467, 0.1272, 0.0116



# Inverse Universe

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



31.0355, 34.6776, 39.7082



54.0942, 61.3372, 71.0443



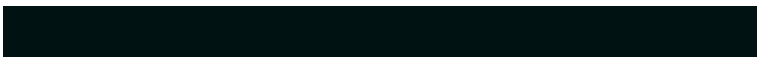
29.3301, 31.2668, 39.1398



7.2760, 8.0111, 9.0659



15.3135, 22.4065, 30.4476



0.3218, 0.4709, 0.6398



# Previews

## White Background



This preview shows how the XYZ color 29.8846, 29.4146, 30.0891 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

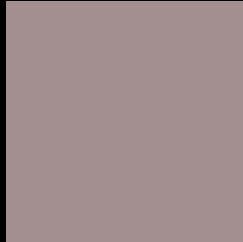
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 29.8846, 29.4146, 30.0891 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

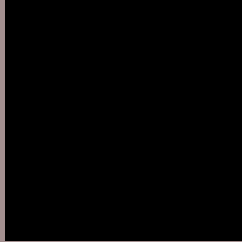
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 29.8846, 29.4146, 30.0891**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.8846, 29.4146, 30.0891.



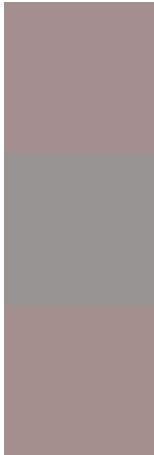
This preview shows how white text looks on a background with the XYZ color 29.8846, 29.4146,



# 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

29.8846, 29.4146, 30.0891

### Protanopia

28.3071, 29.4911, 30.9885

### Deuteranopia

30.0902, 29.5206, 30.0987



## Tritanopia

30.7326, 29.5384, 34.2187

# Trichromacy



## Original Color

29.8846, 29.4146, 30.0891

## Protanomaly

28.8305, 29.5399, 30.5678

## Deuteranomaly

30.0902, 29.5206, 30.0987

## Tritanomaly

30.4077, 29.4084, 32.5075

# Monochromacy



## Original Color

29.8846, 29.4146, 30.0891

## Achromatopsia

28.5667, 30.0544, 32.7292

## Achromatomaly

29.0266, 29.8440, 31.8344

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.8846, 29.4146, 30.0891 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(163, 143, 143)` looks like.

```
.text, #text, p{  
    color:rgb(163, 143, 143)  
}
```

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(163, 143, 143) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 143, 143) }
```

## Border

The CSS property to change the border of an element to XYZ 29.8846, 29.4146, 30.0891 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(163, 143, 143) }
```



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

```
.border{ border-color:rgb(163, 143, 143) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 143, 143)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 143, 143); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 143, 143);  
box-shadow:4px 4px 4px 4px rgb(163, 143,  
143) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.8846, 29.4146, 30.0891 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 143, 143) }
```

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

```
.background{ background-color: rgb(163,  
143, 143) }
```

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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