

# Converting Colors

XYZ(31.4496, 41.5645, 16.5367)

Have a look what the booklet for  
XYZ(31.4496, 41.5645, 16.5367)  
contains.

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# Color

**XYZ(31.2850, 41.3496,  
16.4576)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	94B85C
RGB	148, 184, 92
RGB Percent	58%, 72%, 36%
CMY	0.4196, 0.2784, 0.6392
CMYK	0.20, 0.00, 0.50, 0.28
HSL	83°, 39%, 54%
HSV	83°, 50%, 72%
XYZ	31.2850, 41.3496, 16.4576
YIQ	162.7480, 8.0760, -36.2440

# Conversions

## Conversions Part 2

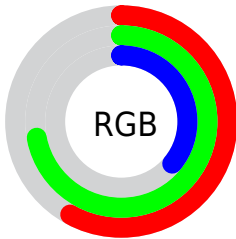
Format	Color
<b>R<sub>YB</sub></b>	<b>92, 184, 128</b>
Decimal	9746524
CIE Lab	70.42, -27.28, 42.46
CIE LCh	70, 50.469, 122.714
Yxy	41.3496, 0.3512, 0.4641
Android (android.graphics.Color)	4287936604 (0xFF94B85C)
YUV	162.7480, -34.8788, -12.9340
Hunter-Lab	64.3037, -25.6876, 29.8381

# Details

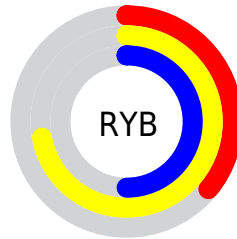
The XYZ color **31.2850, 41.3496, 16.4576** is a dark color, and the websafe version is hex **99CC66**. A complement of this color would be **21.3827, 15.7054, 47.2542**, and the grayscale version is **34.8514, 36.6664, 39.9297**.

A 20% lighter version of the original color is **61.0960, 77.1712, 38.0610**, and **13.2535, 18.8327, 5.1270** is the 20% darker color. If you saturate the color by 10%, you get **29.3144, 40.4170, 12.6647**, and if you desaturate by 10%, it is **33.5340, 42.4058, 21.2849**.

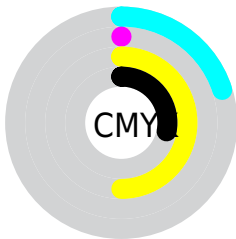
# Distribution



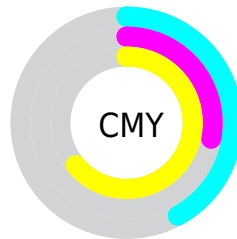
- Red (58%)
- Green (72%)
- Blue (36%)



- Red (36%)
- Yellow (72%)
- Blue (50%)



- Cyan (20%)
- Magenta (0%)
- Yellow (50%)
- Black (28%)



- Cyan (42%)
- Magenta (28%)
- Yellow (64%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.2850, 41.3496, 16.4576 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 31.2850, 41.3496, 16.4576 by changing the saturation by 10% instead.



■ 31.2850, 41.3496,  
16.4576

■ 31.2850, 41.3496,  
16.4576

299.6527,  
351.7796, 243.9642

■ 20.9689, 28.5924,  
9.6907

■ 61.0613, 77.2143,  
38.1686

■ 13.2136, 18.7727,  
5.0914

■ 81.2521, 101.0906,  
53.9498

■ 7.6538, 11.5061,  
2.2413

■ 105.4653,  
129.4420, 73.5728

■ 3.9242, 6.4083,  
0.6981

■ 134.0661,  
162.6529, 97.4561

■ 1.6593, 3.0949,  
0.0000

167.4198,  
201.1077, 126.0184

■ 0.4306, 1.1815,  
0.0000

205.8920,

■ 0.0000, 0.0465,

245.1908, 159.6782

0.0000

249.8478,  
295.2867, 198.8539

■ 0.0000, 0.0000,  
0.0000

■ 31.2850, 41.3496,  
16.4576

■ 31.2850, 41.3496,  
16.4576

■ 29.3144, 40.4170,  
12.6647

■ 33.5340, 42.4058,  
21.2849

■ 27.6034, 39.5959,  
9.8278

■ 36.0728, 43.5861,  
27.2122

■ 26.1351, 38.8810,  
7.8613


■ 38.9157, 44.8976,  
34.3028


■ 24.8886, 38.2636,  
6.6635


■ 42.0748, 46.3455,  
42.6144


■ 23.8229, 37.7272,  
6.0265

■ 45.5619, 47.9346,  
52.2009

 23.8229, 37.7272,  
6.0265

 49.3877, 49.6693,  
63.1131

 53.5626, 51.5539,  
75.3988

 58.0965, 53.5926,  
89.1034

 62.5763, 55.6202,  
102.0454

# Harmonies

## Analogous

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



38.5501, 41.3496, 13.0419



31.2850, 41.3496, 16.4576



26.7454, 41.3496, 27.1374

# Triad

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



31.2850, 41.3496, 16.4576



32.4237, 41.3496, 99.1494



57.5151, 41.3496, 42.8913

# Complementary

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



31.2850, 41.3496, 16.4576



21.3827, 15.7054, 47.2542

# 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.



55.2766, 41.3496, 69.4216



31.2850, 41.3496, 16.4576



40.0627, 41.3496, 107.9265

# Square

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



31.2850, 41.3496, 16.4576



27.3348, 41.3496, 74.5500



48.5824, 41.3496, 95.5281



54.3327, 41.3496, 24.5475

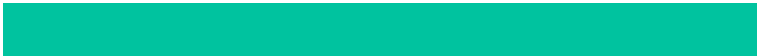


# Rectangle

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



31.2850, 41.3496, 16.4576



25.4902, 41.3496, 39.4660



48.5824, 41.3496, 95.5281



57.3720, 41.3496, 51.0779

# Sweetspot

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



31.2860, 41.3514, 16.4585



73.1882, 82.6000, 69.0525



29.3244, 26.2122, 13.6397



15.5231, 17.6900, 14.2203



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



31.2860, 41.3514, 16.4585



52.8054, 73.1045, 22.3648



24.6366, 37.9235, 16.1473



9.4007, 10.3232, 9.6040



16.4989, 26.0418, 4.1570



0.6489, 0.9527, 0.1497



# Inverse Universe

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



21.3827, 15.7054, 47.2542



32.8350, 21.3085, 84.5870



29.7731, 20.0308, 47.6469



8.8446, 8.8863, 11.3285



7.8794, 3.3732, 31.4889



0.3479, 0.1551, 1.1133



# Previews

## White Background



This preview shows how the XYZ color 31.2850, 41.3496, 16.4576 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 31.2850, 41.3496, 16.4576 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 31.2850, 41.3496, 16.4576**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.2850, 41.3496, 16.4576.



This preview shows how white text looks on a background with the XYZ color 31.2850, 41.3496,



# 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

31.2850, 41.3496, 16.4576

### Protanopia

37.7492, 41.1568, 15.1870

### Deuteranopia

41.7276, 40.9693, 17.0178



## Tritanopia

38.6112, 41.0521, 52.9025

# Trichromacy



## Original Color

31.2850, 41.3496, 16.4576

## Protanomaly

35.0077, 40.8859, 15.4979

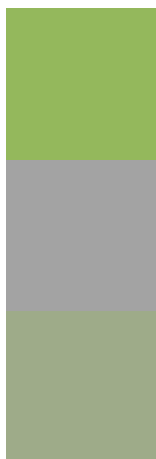
## Deuteranomaly

37.1220, 40.5168, 16.6905

## Tritanomaly

35.0999, 40.7792, 35.7270

# Monochromacy



## Original Color

31.2850, 41.3496, 16.4576

## Achromatopsia

34.8123, 36.6253, 39.8849

## Achromatomaly

33.1788, 38.2011, 29.2917

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.2850, 41.3496, 16.4576 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(148, 184, 92)` looks like.

```
.text, #text, p{  
    color:rgb(148, 184, 92)  
}
```

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(148, 184, 92) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 184, 92) }
```

## Border

The CSS property to change the border of an element to XYZ 31.2850, 41.3496, 16.4576 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(148, 184, 92) }
```



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

```
.border{ border-color:rgb(148, 184, 92) }
```

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

Here you see how a box with a 4 pixel `rgb(148, 184, 92)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(148, 184, 92); -webkit-box-  
shadow:4px 4px 4px 4px rgb(148, 184, 92);  
box-shadow:4px 4px 4px 4px rgb(148, 184,  
92) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.2850, 41.3496, 16.4576 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 184, 92) }
```

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

```
.background{ background-color: rgb(148,  
184, 92) }
```

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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