

# Converting Colors

XYZ(28.8118, 34.2582, 15.0618)

Have a look what the booklet for  
XYZ(28.8118, 34.2582, 15.0618)  
contains.

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# Color

**XYZ(28.8741, 34.3742,  
15.0106)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9CA45B
RGB	156, 164, 91
RGB Percent	61%, 64%, 36%
CMY	0.3882, 0.3568, 0.6431
CMYK	0.05, 0.00, 0.45, 0.36
HSL	67°, 29%, 50%
HSV	67°, 45%, 64%
XYZ	28.8741, 34.3742, 15.0106
YIQ	153.2860, 18.6650, -24.3990

# Conversions

## Conversions Part 2

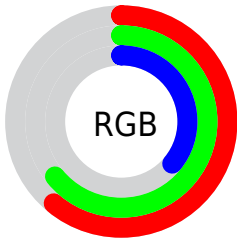
<b>Format</b>	<b>Color</b>
<b>RYB</b>	91, 164, 99
Decimal	10265691
CIELab	65.26, -14.13, 36.78
CIELCh	65, 39.405, 111.018
Yxy	34.3742, 0.3690, 0.4392
Android (android.graphics.Color)	4288455771 (0xFF9CA45B)
YUV	153.2860, -30.7070, 2.3802
Hunter-Lab	58.6295, -14.6933, 25.8610

# Details

The XYZ color **28.8741, 34.3742, 15.0106** is a dark color, and the websafe version is hex **999966**. A complement of this color would be **15.5888, 12.8160, 36.7761**, and the grayscale version is **30.5277, 32.1175, 34.9759**.

A 20% lighter version of the original color is **57.4408, 66.6433, 35.8226**, and **11.8056, 14.6391, 4.3939** is the 20% darker color. If you saturate the color by 10%, you get **27.8975, 33.9449, 11.6670**, and if you desaturate by 10%, it is **30.0122, 34.8712, 19.1702**.

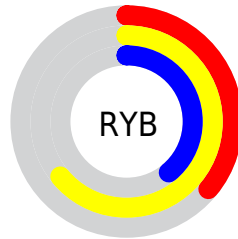
# Distribution



Red (61%)

Green (64%)

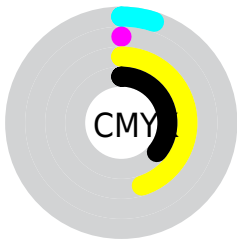
Blue (36%)



Red (36%)

Yellow (64%)

Blue (39%)

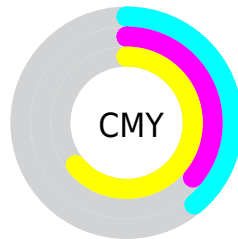


Cyan (5%)

Magenta (0%)

Yellow (45%)

Black (36%)



Cyan (39%)

Magenta (36%)

Yellow (64%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.8741, 34.3742, 15.0106 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 28.8741, 34.3742, 15.0106 by changing the saturation by 10% instead.



■ 28.8741, 34.3742,  
15.0106

■ 28.8741, 34.3742,  
15.0106

288.6254,  
321.7974, 235.0734

■ 19.1294, 23.1812,  
8.6801

■ 57.2759, 66.5152,  
35.6143

■ 11.8684, 14.7274,  
4.4392

■ 76.6638, 88.2319,  
50.7247

■ 6.7257, 8.6283,  
1.8692

■ 99.9967, 114.2254,  
69.5987

■ 3.3359, 4.4995,  
0.4731

■ 127.6401,  
144.8800, 92.6550

■ 1.3338, 1.9567,  
0.0000

159.9594,  
180.5801, 120.3121

■ 0.2083, 0.5821,  
0.0000

197.3197,

■ 0.0000, 0.0000,

221.7101, 152.9885

0.0000

240.0866,  
268.6544, 191.1027

■ 28.8741, 34.3742,  
15.0106

■ 28.8741, 34.3742,  
15.0106

■ 27.8975, 33.9449,  
11.6670

■ 30.0122, 34.8712,  
19.1702

■ 27.0696, 33.5744,  
9.0837

■ 31.3185, 35.4348,  
24.1925

■ 26.3799, 33.2598,  
7.2013


■ 32.8025, 36.0701,  
30.1230


■ 25.8153, 32.9958,  
5.9507

■ 34.4721, 36.7802,  
37.0037


■ 25.3597, 32.7760,  
5.2483


■ 36.3347, 37.5682,  
44.8737

 25.1342, 32.6655,  
4.9804

 38.3975, 38.4368,  
53.7701

 40.6670, 39.3887,  
63.7279

 43.1498, 40.4266,  
74.7807

 45.8518, 41.5527,  
86.9604

# Harmonies

## Analogous

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



34.4236, 34.3742, 14.0977



28.8741, 34.3742, 15.0106



24.8276, 34.3742, 20.8689

# Triad

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



28.8741, 34.3742, 15.0106



26.2142, 34.3742, 67.7351



44.8186, 34.3742, 42.5777

# Complementary

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



28.8741, 34.3742, 15.0106



15.5888, 12.8160, 36.7761

# 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.



42.0149, 34.3742, 61.0165



28.8741, 34.3742, 15.0106



30.9801, 34.3742, 78.0893

# Square

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



28.8741, 34.3742, 15.0106



23.4214, 34.3742, 49.9355



36.7884, 34.3742, 75.3241



44.0838, 34.3742, 27.2051



# Rectangle

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



28.8741, 34.3742, 15.0106



23.3142, 34.3742, 28.0666



36.7884, 34.3742, 75.3241



44.2477, 34.3742, 48.6682

# Sweetspot

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



28.8749, 34.3758, 15.0113



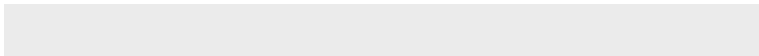
59.9039, 65.6253, 56.1616



21.5952, 17.4404, 12.1262



12.9638, 14.2905, 11.7399



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.



28.8749, 34.3758, 15.0113



50.7204, 61.6497, 21.4547



22.9386, 31.3154, 14.7335



7.5726, 8.1977, 7.5633



19.2951, 25.0575, 3.8196



0.4257, 0.5370, 0.0812



# Inverse Universe

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



15.5888, 12.8160, 36.7761



23.6110, 17.6282, 65.9105



20.4026, 15.2976, 37.0014



6.7692, 6.8954, 8.8772



5.3505, 2.1648, 27.0656



0.1325, 0.0558, 0.5696



# Previews

## White Background



This preview shows how the XYZ color 28.8741, 34.3742, 15.0106 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 28.8741, 34.3742, 15.0106 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

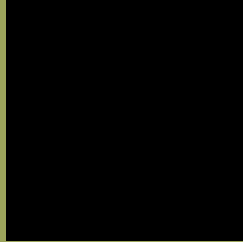
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 28.8741, 34.3742, 15.0106**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.8741, 34.3742, 15.0106.



This preview shows how white text looks on a background with the XYZ color 28.8741, 34.3742,



# 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

28.8741, 34.3742, 15.0106

### Protanopia

31.4856, 34.1737, 14.3879

### Deuteranopia

34.8252, 34.1478, 15.3454



## Tritanopia

34.2134, 34.2320, 41.3634

# Trichromacy



## Original Color

28.8741, 34.3742, 15.0106

## Protanomaly

30.3526, 34.0953, 14.6542

## Deuteranomaly

32.4547, 34.1510, 15.2372

## Tritanomaly

31.7874, 33.9992, 29.3132

# Monochromacy



## Original Color

28.8741, 34.3742, 15.0106

## Achromatopsia

30.2779, 31.8547, 34.6897

## Achromatomaly

29.4127, 32.5957, 25.8605

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.8741, 34.3742, 15.0106 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, 164, 91)` looks like.

```
.text, #text, p{  
    color:rgb(156, 164, 91)  
}
```

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, 164, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 164, 91) }
```

## Border

The CSS property to change the border of an element to XYZ 28.8741, 34.3742, 15.0106 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, 164, 91) }
```



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

```
.border{ border-color:rgb(156, 164, 91) }
```

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

Here you see how a box with a 4 pixel `rgb(156, 164, 91)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(156, 164, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(156, 164, 91);  
box-shadow:4px 4px 4px 4px rgb(156, 164,  
91) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.8741, 34.3742, 15.0106 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 164, 91) }
```

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

```
.background{ background-color: rgb(156,  
164, 91) }
```

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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