

# Converting Colors

XYZ(33.3142, 43.0057, 27.9129)

Have a look what the booklet for  
XYZ(33.3142, 43.0057, 27.9129)  
contains.

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# Color

**XYZ(33.3687, 43.1086,  
28.0348)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	90BB83
RGB	144, 187, 131
RGB Percent	56%, 73%, 51%
CMY	0.4353, 0.2667, 0.4863
CMYK	0.23, 0.00, 0.30, 0.27
HSL	106°, 29%, 62%
HSV	106°, 30%, 73%
XYZ	33.3687, 43.1086, 28.0348
YIQ	167.7590, -7.6520, -26.5320

# Conversions

## Conversions Part 2

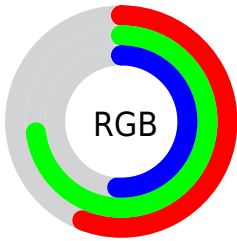
Format	Color
<a href="#">RYB</a>	<a href="#">131, 187, 174</a>
Decimal	<a href="#">9485187</a>
CIELab	<a href="#">71.63, -24.98, 23.85</a>
CIELCh	<a href="#">72, 34.539, 136.333</a>
Yxy	<a href="#">43.1086, 0.3193, 0.4125</a>
Android (android.graphics.Color)	<a href="#">4287675267 (0xFF90BB83)</a>
YUV	<a href="#">167.7590, -18.1222, -20.8366</a>
Hunter-Lab	<a href="#">65.6571, -24.1816, 20.6439</a>

# Details

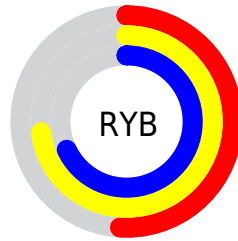
The XYZ color **33.3687, 43.1086, 28.0348** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **34.5432, 28.8203, 50.7582**, and the grayscale version is **37.1909, 39.1278, 42.6101**.

A 20% lighter version of the original color is **64.2555, 79.7040, 57.3452**, and **14.4239, 19.9196, 10.8692** is the 20% darker color. If you saturate the color by 10%, you get **29.8636, 41.4364, 21.8414**, and if you desaturate by 10%, it is **37.4238, 45.0405, 35.4498**.

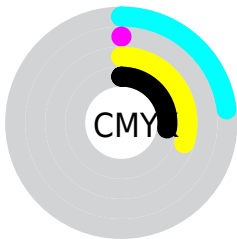
# Distribution



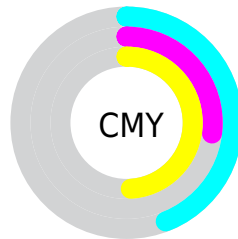
- Red (56%)
- Green (73%)
- Blue (51%)



- Red (51%)
- Yellow (73%)
- Blue (68%)



- Cyan (23%)
- Magenta (0%)
- Yellow (30%)
- Black (27%)



- Cyan (44%)
- Magenta (27%)
- Yellow (49%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.3687, 43.1086, 28.0348 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 33.3687, 43.1086, 28.0348 by changing the saturation by 10% instead.



■ 33.3687, 43.1086,  
28.0348

■ 33.3687, 43.1086,  
28.0348

308.9435,  
359.0582, 306.5503

■ 22.5696, 29.9703,  
18.1126

■ 64.3016, 79.8747,  
57.5638

■ 14.3950, 19.8161,  
10.8606

■ 85.1661, 104.2714,  
78.0076

■ 8.4794, 12.2614,  
5.8602

■ 110.1164,  
133.1896, 102.7958

■ 4.4576, 6.9220,  
2.6928

139.5180,  
167.0138, 132.3469

■ 1.9641, 3.4134,  
0.9398

173.7362,  
206.1283, 167.0793

■ 0.6137, 1.3511,  
0.0000

213.1362,

■ 0.0000, 0.1803,

250.9177, 207.4116

0.0000

258.0836,  
301.7662, 253.7625

■ 0.0000, 0.0000,  
0.0000

■ 33.3687, 43.1086,  
28.0348

■ 33.3687, 43.1086,  
28.0348

■ 29.8636, 41.4364,  
21.8414

■ 37.4238, 45.0405,  
35.4498

■ 26.8810, 40.0073,  
16.8015

■ 42.0484, 47.2369,  
44.1442

■ 24.3959, 38.8112,  
12.8443


■ 47.2649, 49.7095,  
54.1753


■ 22.3796, 37.8350,  
9.8905


■ 53.0936, 52.4675,  
65.5963


■ 20.8006, 37.0646,  
7.8496


■ 59.5538, 55.5199,  
78.4573


 19.6228, 36.4835,  
6.6149

 66.6638, 58.8750,  
92.8062

 18.7884, 36.0666,  
5.9742

 73.3095, 62.0883,  
102.7281

 18.7846, 36.0648,  
5.9711

 77.0612, 64.0223,  
102.9037

# Harmonies

## Analogous

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



37.8931, 43.1086, 22.3275



33.3687, 43.1086, 28.0348



30.9932, 43.1086, 39.7351

# Triad

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



33.3687, 43.1086, 28.0348



38.3745, 43.1086, 85.6801



52.7343, 43.1086, 38.4549

# Complementary

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



33.3687, 43.1086, 28.0348



34.5432, 28.8203, 50.7582

# 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.



52.8945, 43.1086, 54.9625



33.3687, 43.1086, 28.0348



44.2163, 43.1086, 85.1026

# Square

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



33.3687, 43.1086, 28.0348



33.6921, 43.1086, 74.2865



49.6538, 43.1086, 72.8580



49.2348, 43.1086, 27.2906



# Rectangle

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



33.3687, 43.1086, 28.0348



30.7864, 43.1086, 50.5788



49.6538, 43.1086, 72.8580



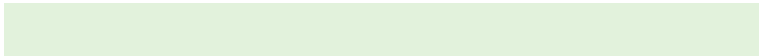
53.1911, 43.1086, 43.4761

# Sweetspot

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



33.3698, 43.1104, 28.0357



76.0143, 84.9336, 80.4087



39.7152, 42.4517, 27.5742



16.4555, 18.5690, 17.1668



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



33.3698, 43.1104, 28.0357



55.4892, 75.1679, 42.6122



32.3148, 42.4411, 33.6567



9.6105, 10.7536, 10.1458



12.9961, 24.8756, 4.1165



0.5685, 1.0050, 0.1640



# Inverse Universe

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



34.5432, 28.8203, 50.7582



57.9188, 45.4125, 89.9142



36.0641, 29.7796, 42.9122



9.7076, 9.5816, 12.0100



14.1217, 6.5661, 32.9160



0.6069, 0.2849, 1.2919



# Previews

## White Background



This preview shows how the XYZ color 33.3687, 43.1086, 28.0348 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 33.3687, 43.1086, 28.0348 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 33.3687, 43.1086, 28.0348**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.3687, 43.1086, 28.0348.



This preview shows how white text looks on a background with the XYZ color 33.3687, 43.1086,



# 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

33.3687, 43.1086, 28.0348

### Protanopia

39.8349, 42.8577, 25.9115

### Deuteranopia

43.5526, 42.7337, 28.8746



## Tritanopia

39.0722, 42.9605, 56.6850

# Trichromacy



## Original Color

33.3687, 43.1086, 28.0348

## Protanomaly

37.0296, 42.5694, 26.6871

## Deuteranomaly

39.1615, 42.4485, 28.6836

## Tritanomaly

36.5613, 42.8422, 44.3726

# Monochromacy



## Original Color

33.3687, 43.1086, 28.0348

## Achromatopsia

37.2190, 39.1572, 42.6422

## Achromatomaly

35.5444, 40.3974, 36.9344

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.3687, 43.1086, 28.0348 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(144, 187, 131)` looks like.

```
.text, #text, p{  
    color:rgb(144, 187, 131)  
}
```

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(144, 187, 131) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(144, 187, 131) }
```

## Border

The CSS property to change the border of an element to XYZ 33.3687, 43.1086, 28.0348 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(144, 187, 131) }
```



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

```
.border{ border-color:rgb(144, 187, 131) }
```

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

Here you see how a box with a 4 pixel `rgb(144, 187, 131)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(144, 187, 131); -webkit-box-  
shadow:4px 4px 4px 4px rgb(144, 187, 131);  
box-shadow:4px 4px 4px 4px rgb(144, 187,  
131) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.3687, 43.1086, 28.0348 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(144, 187, 131) }
```

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

```
.background{ background-color: rgb(144,  
187, 131) }
```

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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