

# Converting Colors

XYZ(36.0074, 45.6578, 37.0598)

Have a look what the booklet for  
XYZ(36.0074, 45.6578, 37.0598)  
contains.

<b>XYZ(35.8822, 45.4908, 37.0264)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(35.8822, 45.4908,  
37.0264)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	90BF99
RGB	144, 191, 153
RGB Percent	56%, 75%, 60%
CMY	0.4353, 0.2510, 0.4000
CMYK	0.25, 0.00, 0.20, 0.25
HSL	131°, 27%, 66%
HSV	131°, 25%, 75%
XYZ	35.8822, 45.4908, 37.0264
YIQ	172.6150, -15.8140, -21.7820

# Conversions

## Conversions Part 2

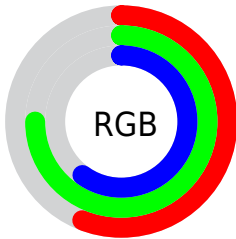
<b>Format</b>	<b>Color</b>
<b>RYB</b>	144, 183, 191
Decimal	9486233
CIELab	73.21, -23.17, 14.22
CIELCh	73, 27.189, 148.469
Yxy	45.4908, 0.3031, 0.3842
Android (android.graphics.Color)	4287676313 (0xFF90BF99)
YUV	172.6150, -9.6702, -25.0954
Hunter-Lab	67.4469, -23.0688, 14.6643

# Details

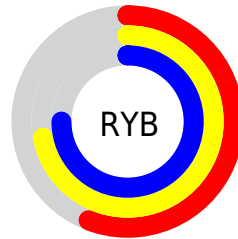
The XYZ color **35.8822, 45.4908, 37.0264** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **39.9042, 34.4014, 48.7950**, and the grayscale version is **39.5789, 41.6401, 45.3461**.

A 20% lighter version of the original color is **68.3831, 83.7819, 71.5988**, and **15.7576, 21.1259, 15.8176** is the 20% darker color. If you saturate the color by 10%, you get **31.6302, 43.4381, 30.5949**, and if you desaturate by 10%, it is **40.8662, 47.9044, 44.3559**.

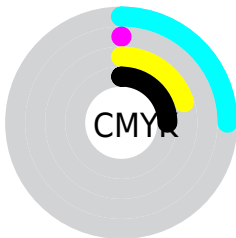
# Distribution



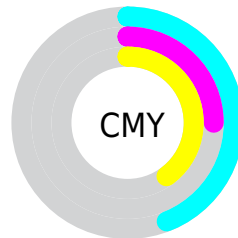
- Red (56%)
- Green (75%)
- Blue (60%)



- Red (56%)
- Yellow (72%)
- Blue (75%)



- Cyan (25%)
- Magenta (0%)
- Yellow (20%)
- Black (25%)




- Cyan (44%)
- Magenta (25%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.8822, 45.4908, 37.0264 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 35.8822, 45.4908, 37.0264 by changing the saturation by 10% instead.




 35.8822, 45.4908,  
37.0264


 35.8822, 45.4908,  
37.0264


319.8856,  
368.7577, 348.5969

 24.5129, 31.8442,  
24.9320


 68.1753, 83.4564,  
71.8002

 15.8413, 21.2425,  
15.8078


 89.8298, 108.5442,  
95.3166

 9.5021, 13.3014,  
9.2354


115.6434,  
138.2145, 123.4775

 5.1298, 7.6364,  
4.7961

145.9815,  
172.8518, 156.7013

 2.3592, 3.8632,  
2.0715

181.2094,  
212.8403, 195.4066

 0.8247, 1.5973,  
0.5987

221.6924,

 0.0000, 0.3558,

258.5645, 240.0119

0.0000

267.7961,  
310.4089, 290.9359

■ 0.0000, 0.0000,  
0.0000

■ 35.8822, 45.4908,  
37.0264

■ 35.8822, 45.4908,  
37.0264

■ 31.6302, 43.4381,  
30.5949

■ 40.8662, 47.9044,  
44.3559

■ 28.0719, 41.7233,  
25.0238

■ 46.6108, 50.6890,  
52.6130

■ 25.1709, 40.3298,  
20.2776

■ 53.1477, 53.8617,  
61.8295

■ 22.8860, 39.2372,  
16.3169

■ 60.5057, 57.4366,  
72.0349

■ 21.1714, 38.4228,  
13.0991

■ 68.7119, 61.4272,  
83.2576

■ 19.9744, 37.8603,  
10.5778

■ 76.4540, 65.1563,  
95.4619

■ 19.2323, 37.5185,  
8.7008

■ 77.9217, 65.7433,  
103.1906

■ 18.9589, 37.3942,  
7.9340

# Harmonies

## Analogous

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



39.0116, 45.4908, 29.8442



35.8822, 45.4908, 37.0264



34.7025, 45.4908, 48.8331

# Triad

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



35.8822, 45.4908, 37.0264



42.9930, 45.4908, 80.7005



51.8113, 45.4908, 38.0369

# Complementary

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



35.8822, 45.4908, 37.0264



39.9042, 34.4014, 48.7950

# 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.



53.0688, 45.4908, 50.2370



35.8822, 45.4908, 37.0264



47.7583, 45.4908, 76.3948

# Square

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



35.8822, 45.4908, 37.0264



38.6166, 45.4908, 75.4616



51.5353, 45.4908, 64.5766



48.2134, 45.4908, 30.3478



# Rectangle

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



35.8822, 45.4908, 37.0264



35.1091, 45.4908, 58.3269



51.5353, 45.4908, 64.5766



52.5329, 45.4908, 41.6684

# Sweetspot

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



35.8834, 45.4927, 37.0274



80.7706, 89.4679, 90.3659



43.0487, 49.2692, 33.6271



17.5946, 19.5775, 19.6405



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138

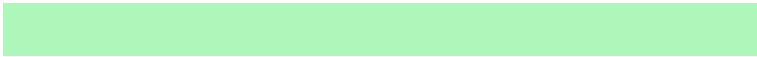


# Same Dimension

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



35.8834, 45.4927, 37.0274



59.6412, 79.2396, 59.3640



37.9819, 46.3321, 48.0776



9.4814, 10.6787, 10.5188



12.4818, 24.5830, 5.3338



0.5117, 0.9720, 0.3289



# Inverse Universe

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



39.9042, 34.4014, 48.7950



68.1809, 55.6719, 84.3487



37.7084, 33.5231, 37.2320



9.8495, 9.6641, 11.5964



18.0051, 8.8332, 21.1183



0.7258, 0.3542, 0.9352



# Previews

## White Background



This preview shows how the XYZ color 35.8822, 45.4908, 37.0264 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 35.8822, 45.4908, 37.0264 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

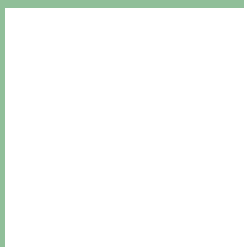
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 35.8822, 45.4908, 37.0264**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.8822, 45.4908, 37.0264.



This preview shows how white text looks on a background with the XYZ color 35.8822, 45.4908,



# 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

35.8822, 45.4908, 37.0264

### Protanopia

42.6218, 45.2939, 34.1000

### Deuteranopia

46.2062, 45.3006, 38.2068



## Tritanopia

40.6067, 45.4968, 60.6744

# Trichromacy



## Original Color

35.8822, 45.4908, 37.0264

## Protanomaly

39.5919, 44.9211, 35.0177

## Deuteranomaly

41.8504, 45.1101, 37.9539

## Tritanomaly

38.6082, 45.3076, 50.9663

# Monochromacy



## Original Color

35.8822, 45.4908, 37.0264

## Achromatopsia

39.7200, 41.7885, 45.5077

## Achromatomaly

38.1045, 43.0771, 42.3828

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.8822, 45.4908, 37.0264 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, 191, 153)` looks like.

```
.text, #text, p{  
    color:rgb(144, 191, 153)  
}
```

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, 191, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(144, 191, 153) }
```

## Border

The CSS property to change the border of an element to XYZ 35.8822, 45.4908, 37.0264 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, 191, 153) }
```



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

```
.border{ border-color:rgb(144, 191, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(144, 191, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(144, 191, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(144, 191, 153);  
box-shadow:4px 4px 4px 4px rgb(144, 191,  
153) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.8822, 45.4908, 37.0264 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(144, 191, 153) }
```

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

```
.background{ background-color: rgb(144,  
191, 153) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor