

# Converting Colors

XYZ(40.8462, 58.9831, 33.0679)

Have a look what the booklet for  
XYZ(40.8462, 58.9831, 33.0679)  
contains.

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# Color

**XYZ(40.6883, 58.8374,  
32.8792)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89DD89
RGB	137, 221, 137
RGB Percent	54%, 87%, 54%
CMY	0.4627, 0.1333, 0.4627
CMYK	0.38, 0.00, 0.38, 0.13
HSL	120°, 55%, 70%
HSV	120°, 38%, 87%
XYZ	40.6883, 58.8374, 32.8792
YIQ	186.3080, -23.1000, -43.9320

# Conversions

## Conversions Part 2

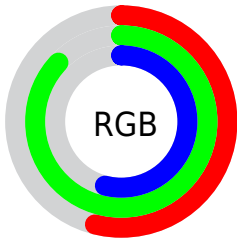
Format	Color
<a href="#">RYB</a>	<a href="#">137, 221, 221</a>
Decimal	<a href="#">9035145</a>
CIELab	<a href="#">81.20, -42.14, 33.41</a>
CIELCh	<a href="#">81, 53.781, 141.593</a>
Yxy	<a href="#">58.8374, 0.3073, 0.4444</a>
Android (android.graphics.Color)	<a href="#">4287225225 (0xFF89DD89)</a>
YUV	<a href="#">186.3080, -24.3088, -43.2431</a>
Hunter-Lab	<a href="#">76.7055, -39.5497, 28.2797</a>

# Details

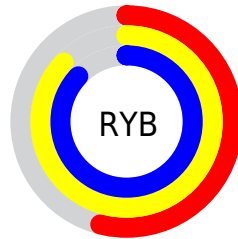
The XYZ color **40.6883, 58.8374, 32.8792** is a light color, and the websafe version is hex **66CC66**. A complement of this color would be **51.8174, 38.4849, 73.1057**, and the grayscale version is **46.9875, 49.4345, 53.8342**.

A 20% lighter version of the original color is **67.1563, 86.6190, 62.4699**, and **18.6145, 29.3760, 13.4931** is the 20% darker color. If you saturate the color by 10%, you get **36.0036, 56.5889, 25.2154**, and if you desaturate by 10%, it is **46.4427, 61.6033, 42.2904**.

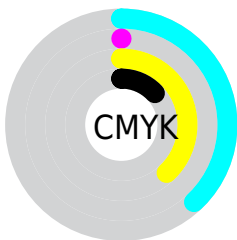
# Distribution



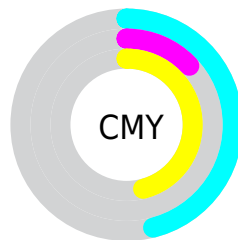
- Red (54%)
- Green (87%)
- Blue (54%)



- Red (54%)
- Yellow (87%)
- Blue (87%)



- Cyan (38%)
- Magenta (0%)
- Yellow (38%)
- Black (13%)




- Cyan (46%)
- Magenta (13%)
- Yellow (46%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.6883, 58.8374, 32.8792 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 40.6883, 58.8374, 32.8792 by changing the saturation by 10% instead.





 40.6883, 58.8374,  
32.8792


 40.6883, 58.8374,  
32.8792


340.1011,  
420.2991, 329.7204

 28.2622, 42.4822,  
21.7636


 75.4882, 103.1413,  
65.3007

 18.6649, 29.4791,  
13.4866


 98.5927, 131.8588,  
87.4437

 11.5309, 19.4435,  
7.6298


 125.9874,  
165.4660, 114.0995

 6.4951, 11.9912,  
3.7747

158.0376,  
204.3471, 145.6867

 3.1919, 6.7377,  
1.5026

195.1088,  
248.8865, 182.6239

 1.2560, 3.2986,  
0.2198

237.5661,

 0.1499, 1.2895,

299.4687, 225.3295

0.0000

285.7751,  
356.4781, 274.2221

■ 0.0000, 0.1331,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.6883, 58.8374,  
32.8792

■ 40.6883, 58.8374,  
32.8792

■ 36.0036, 56.5889,  
25.2154

■ 46.4427, 61.6033,  
42.2904

■ 32.3186, 54.8188,  
19.1879

■ 53.3223, 64.9079,  
53.5431

■ 29.5620, 53.4946,  
14.6787

■ 61.3841, 68.7804,  
66.7297

■ 27.6510, 52.5767,  
11.5529

■ 70.6801, 73.2458,  
81.9349

■ 26.4886, 52.0183,  
9.6515

■ 81.2591, 78.3274,  
99.2385

■ 25.9368, 51.7533,  
8.7488

■ 85.1476, 80.1952,  
105.5992

■ 25.8576, 51.7153,  
8.6193

# Harmonies

## Analogous

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



48.3665, 58.8374, 22.1262



40.6883, 58.8374, 32.8792



37.2100, 58.8374, 55.4629

# Triad

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



40.6883, 58.8374, 32.8792



52.8332, 58.8374, 146.4955



78.4323, 58.8374, 43.9418

# Complementary

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



40.6883, 58.8374, 32.8792



51.8174, 38.4849, 73.1057

# 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.



80.0469, 58.8374, 73.5112



40.6883, 58.8374, 32.8792



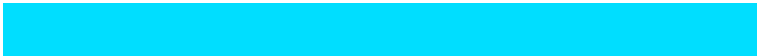
64.2286, 58.8374, 140.2251

# Square

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



40.6883, 58.8374, 32.8792



43.5829, 58.8374, 125.5660



74.5530, 58.8374, 110.5261



70.3972, 58.8374, 26.8687



# Rectangle

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



40.6883, 58.8374, 32.8792



37.3686, 58.8374, 77.2743



74.5530, 58.8374, 110.5261



79.7831, 58.8374, 52.4521

# Sweetspot

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



40.6898, 58.8399, 32.8805



81.2811, 93.3861, 86.3787



60.1932, 68.8943, 33.7926



17.0654, 19.8289, 17.9453



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



40.6898, 58.8399, 32.8805



50.7576, 78.7241, 36.4521



44.3112, 60.2884, 51.9506



12.8866, 14.6063, 13.8657



15.0204, 30.0408, 5.0069



0.9731, 1.9462, 0.3244



# Inverse Universe

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



51.8174, 38.4849, 73.1057



68.3351, 46.5708, 99.9930



46.9028, 36.5191, 47.2260



13.6144, 13.2749, 16.4968



24.9034, 11.9624, 40.7329



1.6134, 0.7750, 2.6389



# Previews

## White Background



This preview shows how the XYZ color 40.6883, 58.8374, 32.8792 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 40.6883, 58.8374, 32.8792 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

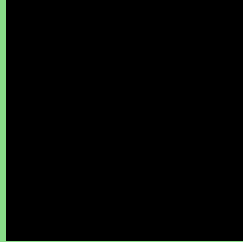
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 40.6883, 58.8374, 32.8792**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.6883, 58.8374, 32.8792.



This preview shows how white text looks on a background with the XYZ color 40.6883, 58.8374,



# 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

40.6883, 58.8374, 32.8792

### Protanopia

53.7625, 58.2637, 29.1813

### Deuteranopia

59.1436, 57.8900, 34.4422



## Tritanopia

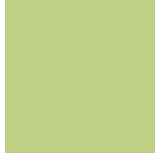
50.2381, 58.5093, 81.3186

# Trichromacy



## Original Color

40.6883, 58.8374, 32.8792



## Protanomaly

47.7070, 57.5965, 30.4326



## Deuteranomaly

50.2510, 57.0525, 33.5630



## Tritanomaly

45.9969, 58.2841, 59.8646

# Monochromacy



## Original Color

40.6883, 58.8374, 32.8792



## Achromatopsia

46.6715, 49.1021, 53.4722



## Achromatomaly

43.6398, 51.9988, 44.7825

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.6883, 58.8374, 32.8792 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(137, 221, 137)` looks like.

```
.text, #text, p{  
    color:rgb(137, 221, 137)  
}
```

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(137, 221, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 221, 137) }
```

## Border

The CSS property to change the border of an element to XYZ 40.6883, 58.8374, 32.8792 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(137, 221, 137) }
```



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

```
.border{ border-color:rgb(137, 221, 137) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 221, 137)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 221, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 221, 137);  
box-shadow:4px 4px 4px 4px rgb(137, 221,  
137) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.6883, 58.8374, 32.8792 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 221, 137) }
```

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

```
.background{ background-color: rgb(137,  
221, 137) }
```

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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