

# Converting Colors

XYZ(45.4871, 60.9197, 40.2630)

Have a look what the booklet for  
XYZ(45.4871, 60.9197, 40.2630)  
contains.

<b>XYZ(45.4142, 60.7211, 40.3371)</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(45.4142, 60.7211,  
40.3371)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9DDC9B
RGB	157, 220, 155
RGB Percent	62%, 86%, 61%
CMY	0.3843, 0.1372, 0.3921
CMYK	0.29, 0.00, 0.30, 0.14
HSL	118°, 48%, 74%
HSV	118°, 30%, 86%
XYZ	45.4142, 60.7211, 40.3371
YIQ	193.7530, -16.6830, -33.5710

# Conversions

## Conversions Part 2

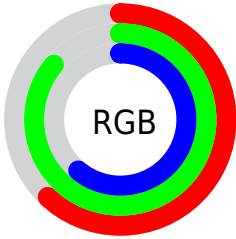
Format	Color
<a href="#">RYB</a>	<a href="#">155, 220, 218</a>
Decimal	<a href="#">10345627</a>
CIELab	<a href="#">82.23, -32.51, 25.72</a>
CIELCh	<a href="#">82, 41.452, 141.652</a>
Yxy	<a href="#">60.7211, 0.3101, 0.4146</a>
Android (android.graphics.Color)	<a href="#">4288535707 (0xFF9DDC9B)</a>
YUV	<a href="#">193.7530, -19.1052, -32.2324</a>
Hunter-Lab	<a href="#">77.9237, -32.3362, 23.8552</a>

# Details

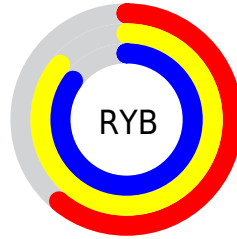
The XYZ color **45.4142, 60.7211, 40.3371** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **53.5558, 43.5173, 73.2904**, and the grayscale version is **51.2499, 53.9188, 58.7176**.

A 20% lighter version of the original color is **74.8334, 90.3193, 74.4620**, and **21.6122, 30.8326, 17.6442** is the 20% darker color. If you saturate the color by 10%, you get **39.9291, 58.0896, 31.2988**, and if you desaturate by 10%, it is **51.9652, 63.8667, 51.1850**.

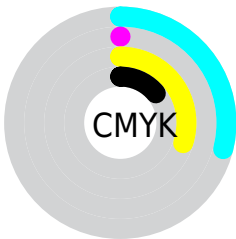
# Distribution



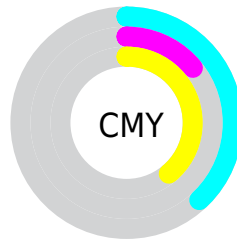
- Red (62%)
- Green (86%)
- Blue (61%)



- Red (61%)
- Yellow (86%)
- Blue (85%)



- Cyan (29%)
- Magenta (0%)
- Yellow (30%)
- Black (14%)




- Cyan (38%)
- Magenta (14%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.4142, 60.7211, 40.3371 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 45.4142, 60.7211, 40.3371 by changing the saturation by 10% instead.




 45.4142, 60.7211,  
40.3371


 45.4142, 60.7211,  
40.3371


359.2040,  
427.2506, 363.1366

 31.9865, 44.0001,  
27.4857


 82.5749, 105.8750,  
76.9193

 21.5067, 30.6706,  
17.7027


 107.0385,  
135.0767, 101.4871

 13.6094, 20.3482,  
10.5695


135.9115,  
169.2075, 130.7975

 7.9294, 12.6484,  
5.6676

169.5592,  
208.6517, 165.2689

 4.1012, 7.1869,  
2.5786

208.3469,  
253.7937, 205.3201

 1.7596, 3.5792,  
0.8814

252.6401,

 0.4931, 1.4411,

305.0179, 251.3693

0.0000

302.8040,  
362.7088, 303.8354

0.0000, 0.2467,  
0.0000

0.0000, 0.0000,  
0.0000

45.4142, 60.7211,  
40.3371

45.4142, 60.7211,  
40.3371

39.9291, 58.0896,  
31.2988

51.9652, 63.8667,  
51.1850

35.4491, 55.9377,  
23.9679

59.6293, 67.5436,  
63.9291

31.9147, 54.2388,  
18.2384

68.4566, 71.7774,  
78.6554

29.2581, 52.9605,  
13.9906

78.4926, 76.5900,  
95.4435

■ 27.4023, 52.0662,  
11.0881

■ 84.8844, 79.6689,  
105.5115

■ 26.2574, 51.5128,  
9.3696

■ 25.6967, 51.2410,  
8.5648

■ 25.6791, 51.2325,  
8.5354

# Harmonies

## Analogous

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



51.6824, 60.7211, 30.4798



45.4142, 60.7211, 40.3371



42.5142, 60.7211, 59.3140

# Triad

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



45.4142, 60.7211, 40.3371



55.2873, 60.7211, 126.7181



74.9458, 60.7211, 49.7718

# Complementary

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



45.4142, 60.7211, 40.3371



53.5558, 43.5173, 73.2904

# 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.



76.1621, 60.7211, 73.4169



45.4142, 60.7211, 40.3371



64.1966, 60.7211, 122.2795

# Square

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



45.4142, 60.7211, 40.3371



47.8223, 60.7211, 111.9638



72.0544, 60.7211, 101.0409



68.8825, 60.7211, 34.8826



# Rectangle

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



45.4142, 60.7211, 40.3371



42.6528, 60.7211, 76.4122



72.0544, 60.7211, 101.0409



75.9582, 60.7211, 56.7870

# Sweetspot

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



45.4158, 60.7237, 40.3384



83.8571, 94.6316, 90.2272



60.4626, 67.6418, 40.8807



17.5888, 20.0823, 18.7126



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

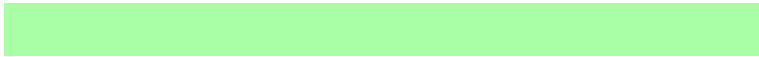


# Same Dimension

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



45.4158, 60.7237, 40.3384



58.8739, 82.6432, 48.8050



47.9050, 61.6747, 55.4650



12.9233, 14.6252, 13.8674



15.0871, 30.0752, 5.0099



0.9908, 1.9553, 0.3252



# Inverse Universe

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



53.5558, 43.5173, 73.2904



71.8784, 55.1449, 101.4634



50.4966, 42.3631, 54.0418



13.5727, 13.2534, 16.4949



23.7446, 11.3650, 40.6806



1.5510, 0.7428, 2.6361



# Previews

## White Background



This preview shows how the XYZ color 45.4142, 60.7211, 40.3371 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 45.4142, 60.7211, 40.3371 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 45.4142, 60.7211, 40.3371**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.4142, 60.7211, 40.3371.



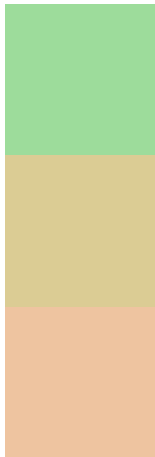
This preview shows how white text looks on a background with the XYZ color 45.4142, 60.7211,



# 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

45.4142, 60.7211, 40.3371

### Protanopia

56.1516, 60.3839, 36.7127

### Deuteranopia

61.3450, 60.1951, 41.6433



## Tritanopia

53.8754, 60.7360, 82.2825

# Trichromacy



## Original Color

45.4142, 60.7211, 40.3371

## Protanomaly

51.3975, 60.0633, 38.1626

## Deuteranomaly

54.2974, 59.6866, 41.0066

## Tritanomaly

50.1062, 60.3095, 64.2584

# Monochromacy



## Original Color

45.4142, 60.7211, 40.3371

## Achromatopsia

51.2775, 53.9479, 58.7493

## Achromatomaly

48.6502, 55.8309, 51.3923

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.4142, 60.7211, 40.3371 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(157, 220, 155)` looks like.

```
.text, #text, p{  
    color:rgb(157, 220, 155)  
}
```

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(157, 220, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 220, 155) }
```

## Border

The CSS property to change the border of an element to XYZ 45.4142, 60.7211, 40.3371 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(157, 220, 155) }
```



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

```
.border{ border-color:rgb(157, 220, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(157, 220, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 220, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 220, 155);  
box-shadow:4px 4px 4px 4px rgb(157, 220,  
155) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.4142, 60.7211, 40.3371 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 220, 155) }
```

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

```
.background{ background-color: rgb(157,  
220, 155) }
```

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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