

# Converting Colors

XYZ(45.5237, 61.0152, 32.9731)

Have a look what the booklet for  
XYZ(45.5237, 61.0152, 32.9731)  
contains.

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# Color

**XYZ(45.4184, 60.8851,  
33.0251)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A4DC89
RGB	164, 220, 137
RGB Percent	64%, 86%, 54%
CMY	0.3569, 0.1372, 0.4627
CMYK	0.25, 0.00, 0.38, 0.14
HSL	100°, 54%, 70%
HSV	100°, 38%, 86%
XYZ	45.4184, 60.8851, 33.0251
YIQ	193.7940, -6.7330, -37.6850

# Conversions

## Conversions Part 2

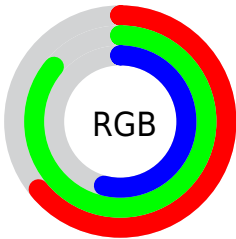
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">137, 220, 193</a>
Decimal	<a href="#">10804361</a>
CIELab	<a href="#">82.32, -32.88, 35.14</a>
CIElCh	<a href="#">82, 48.119, 133.099</a>
Yxy	<a href="#">60.8851, 0.3260, 0.4370</a>
Android (android.graphics.Color)	<a href="#">4288994441 (0xFFA4DC89)</a>
YUV	<a href="#">193.7940, -27.9994, -26.1293</a>
Hunter-Lab	<a href="#">78.0289, -32.6508, 29.5262</a>

# Details

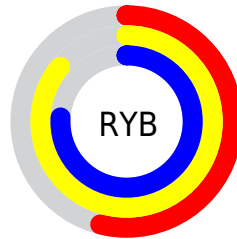
The XYZ color **45.4184, 60.8851, 33.0251** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **43.8590, 34.3979, 72.0414**, and the grayscale version is **51.3209, 53.9936, 58.7990**.

A 20% lighter version of the original color is **74.6792, 90.4972, 62.8219**, and **21.5653, 30.8971, 13.6312** is the 20% darker color. If you saturate the color by 10%, you get **41.1120, 58.8310, 25.4089**, and if you desaturate by 10%, it is **50.4073, 63.2575, 42.3554**.

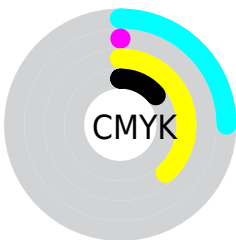
# Distribution



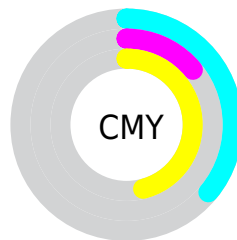
- Red (64%)
- Green (86%)
- Blue (54%)



- Red (54%)
- Yellow (86%)
- Blue (76%)



- Cyan (25%)
- Magenta (0%)
- Yellow (38%)
- Black (14%)




- Cyan (36%)
- Magenta (14%)
- Yellow (46%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.4184, 60.8851, 33.0251 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 45.4184, 60.8851, 33.0251 by changing the saturation by 10% instead.





 45.4184, 60.8851,  
33.0251

 45.4184, 60.8851,  
33.0251


359.2207,  
427.8526, 330.3983


 31.9898, 44.1324,  
21.8744


 82.5811, 106.1126,  
65.5312

 21.5092, 30.7746,  
13.5672


 107.0459,  
135.3561, 87.7236

 13.6113, 20.4273,  
7.6850


 135.9202,  
169.5322, 114.4338

 7.9307, 12.7060,  
3.8092

169.5693,  
209.0250, 146.0801

 4.1021, 7.2264,  
1.5213

208.3585,  
254.2191, 183.0812

 1.7600, 3.6041,  
0.2337

252.6533,

 0.4934, 1.4547,

305.4988, 225.8555

0.0000

302.8189,  
363.2485, 274.8217

■ 0.0000, 0.2565,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 45.4184, 60.8851,  
33.0251

■ 45.4184, 60.8851,  
33.0251

■ 41.1120, 58.8310,  
25.4089

■ 50.4073, 63.2575,  
42.3554

■ 37.4516, 57.0733,  
19.3986


■ 56.1038, 65.9536,  
53.4912


■ 34.4039, 55.5990,  
14.8798


■ 62.5372, 68.9883,  
66.5223


■ 31.9303, 54.3912,  
11.7214


■ 69.7338, 72.3735,  
81.5314

 29.9872, 53.4306,  
9.7696

 77.7184, 76.1204,  
98.5961

 28.5183, 52.6931,  
8.8113

 84.1769, 79.3042,  
105.4784

 28.2343, 52.5498,  
8.6550

 84.8845, 79.6690,  
105.5115

# Harmonies

## Analogous

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



53.5158, 60.8851, 25.1085



45.4184, 60.8851, 33.0251



40.9831, 60.8851, 51.1982

# Triad

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



45.4184, 60.8851, 33.0251



52.3258, 60.8851, 136.3107



79.2708, 60.8851, 54.3040

# Complementary

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



45.4184, 60.8851, 33.0251



43.8590, 34.3979, 72.0414

# 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.



78.8541, 60.8851, 84.0977



45.4184, 60.8851, 33.0251



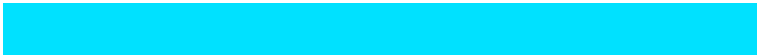
62.4531, 60.8851, 137.8841

# Square

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



45.4184, 60.8851, 33.0251



44.6362, 60.8851, 112.8332



72.4104, 60.8851, 116.6504



73.4894, 60.8851, 34.7173



# Rectangle

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



45.4184, 60.8851, 33.0251



40.3330, 60.8851, 69.3930



72.4104, 60.8851, 116.6504



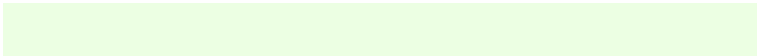
79.8695, 60.8851, 63.2878

# Sweetspot

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



45.4199, 60.8877, 33.0264



84.2348, 94.9088, 86.5164



52.9560, 54.8702, 31.4677



17.7638, 20.1890, 17.9779



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

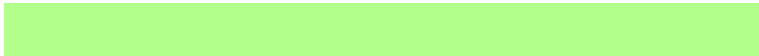


# Same Dimension

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



45.4199, 60.8877, 33.0264



58.7747, 82.8356, 37.7988



41.4840, 58.7366, 38.3593



13.2834, 14.8108, 13.8842



16.6738, 30.8931, 5.0842



1.1690, 2.0472, 0.3335



# Inverse Universe

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



43.8590, 34.3979, 72.0414



56.2812, 40.9048, 99.5368



49.6241, 37.5730, 63.1384



13.1813, 13.0516, 16.4766



14.9175, 6.8144, 40.2675



1.0553, 0.4873, 2.6129



# Previews

## White Background



This preview shows how the XYZ color 45.4184, 60.8851, 33.0251 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 45.4184, 60.8851, 33.0251 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 45.4184, 60.8851, 33.0251**

## **Background**



This preview shows how black text looks on a background with the XYZ color 45.4184, 60.8851, 33.0251.



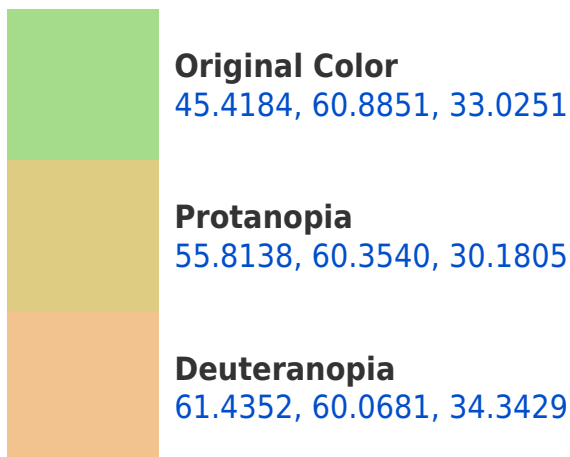
This preview shows how white text looks on a background with the XYZ color 45.4184, 60.8851,



# 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





## Tritanopia

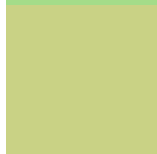
54.8880, 60.5569, 80.7472

# Trichromacy



## Original Color

45.4184, 60.8851, 33.0251



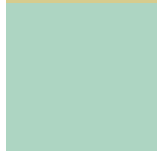
## Protanomaly

51.3676, 60.2041, 31.1035



## Deuteranomaly

54.1321, 59.4050, 33.8125



## Tritanomaly

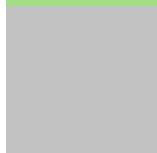
50.7654, 60.3678, 60.0155

# Monochromacy



## Original Color

45.4184, 60.8851, 33.0251



## Achromatopsia

51.2775, 53.9479, 58.7493



## Achromatomaly

48.4272, 55.7963, 47.7525

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.4184, 60.8851, 33.0251 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(164, 220, 137)` looks like.

```
.text, #text, p{  
    color:rgb(164, 220, 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(164, 220, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 220, 137) }
```

## Border

The CSS property to change the border of an element to XYZ 45.4184, 60.8851, 33.0251 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(164, 220, 137) }
```



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

```
.border{ border-color:rgb(164, 220, 137) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 220, 137)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(164, 220, 137); -webkit-box-shadow:4px 4px 4px 4px rgb(164, 220, 137); box-shadow:4px 4px 4px 4px rgb(164, 220, 137) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.4184, 60.8851, 33.0251 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 220, 137) }
```

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

```
.background{ background-color: rgb(164,  
220, 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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