

# Converting Colors

XYZ(48.4852, 64.9081, 33.1422)

Have a look what the booklet for  
XYZ(48.4852, 64.9081, 33.1422)  
contains.

<b>XYZ(48.4349, 64.8282, 33.2529)</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(48.4349, 64.8282,  
33.2529)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ABE288
RGB	171, 226, 136
RGB Percent	67%, 89%, 53%
CMY	0.3294, 0.1137, 0.4667
CMYK	0.24, 0.00, 0.40, 0.11
HSL	97°, 61%, 71%
HSV	97°, 40%, 89%
XYZ	48.4349, 64.8282, 33.2529
YIQ	199.2950, -3.8900, -39.6500

# Conversions

## Conversions Part 2

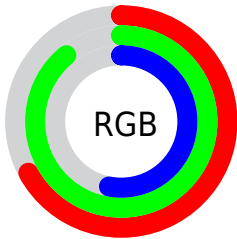
Format	Color
<a href="#">RYB</a>	<a href="#">136, 226, 191</a>
Decimal	<a href="#">11264648</a>
CIELab	<a href="#">84.40, -33.37, 38.41</a>
CIELCh	<a href="#">84, 50.879, 130.981</a>
Yxy	<a href="#">64.8282, 0.3306, 0.4425</a>
Android (android.graphics.Color)	<a href="#">4289454728</a> ( <a href="#">0xFFABE288</a> )
YUV	<a href="#">199.2950, -31.2044, -24.8147</a>
Hunter-Lab	<a href="#">80.5160, -33.5251, 31.8745</a>

# Details

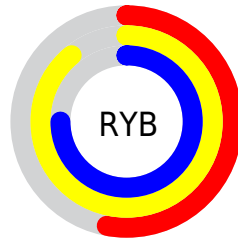
The XYZ color **48.4349, 64.8282, 33.2529** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **44.0203, 34.1776, 76.2318**, and the grayscale version is **54.6552, 57.5015, 62.6191**.

A 20% lighter version of the original color is **77.0492, 91.7317, 62.3603**, and **23.3505, 33.1872, 13.7694** is the 20% darker color. If you saturate the color by 10%, you get **44.1424, 62.7838, 25.5337**, and if you desaturate by 10%, it is **53.3837, 67.1758, 42.7732**.

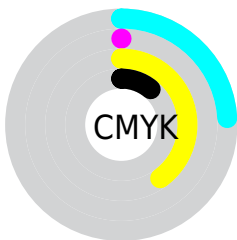
# Distribution



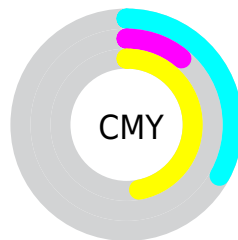
- Red (67%)
- Green (89%)
- Blue (53%)



- Red (53%)
- Yellow (89%)
- Blue (75%)



- Cyan (24%)
- Magenta (0%)
- Yellow (40%)
- Black (11%)




- Cyan (33%)
- Magenta (11%)
- Yellow (47%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.4349, 64.8282, 33.2529 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 48.4349, 64.8282, 33.2529 by changing the saturation by 10% instead.





 48.4349, 64.8282,  
33.2529


 48.4349, 64.8282,  
33.2529


371.0673,  
442.1743, 331.4547


 34.3841, 47.3218,  
22.0476


 87.0574, 111.8028,  
65.8907

 23.3531, 33.2901,  
13.6932


 112.3597,  
142.0398, 88.1603

 14.9766, 22.3488,  
7.7713


 142.1433,  
177.2891, 114.9550

 8.8892, 14.1134,  
3.8633

176.7735,  
217.9352, 146.6934

 4.7255, 8.1996,  
1.5506

216.6157,  
264.3623, 183.7940

 2.1202, 4.2229,  
0.2552

262.0351,

 0.7002, 1.7990,

316.9550, 226.6754

0.0000

313.3972,  
376.0975, 275.7561

0.0000, 0.4866,  
0.0000

0.0000, 0.0000,  
0.0000

48.4349, 64.8282,  
33.2529

48.4349, 64.8282,  
33.2529

44.1424, 62.7838,  
25.5337

53.3837, 67.1758,  
42.7732

40.4704, 61.0206,  
19.4979

59.0129, 69.8308,  
54.1941

37.3864, 59.5266,  
15.0204

65.3508, 72.8077,  
67.6126

34.8525, 58.2855,  
11.9570

72.4230, 76.1177,  
83.1180

■ 32.8250, 57.2785,  
10.1364

■ 80.2534, 79.7712,  
100.7943

■ 31.2365, 56.4772,  
9.2663

■ 86.0744, 82.6623,  
106.0266

■ 31.2112, 56.4644,  
9.2537

■ 86.4877, 82.8754,  
106.0459

# Harmonies

## Analogous

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



57.5695, 64.8282, 25.4186



48.4349, 64.8282, 33.2529



43.2693, 64.8282, 52.1834

# Triad

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



48.4349, 64.8282, 33.2529



54.8024, 64.8282, 147.3001



85.5105, 64.8282, 59.3822

# Complementary

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



48.4349, 64.8282, 33.2529



44.0203, 34.1776, 76.2318

# 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.



84.5331, 64.8282, 92.8764



48.4349, 64.8282, 33.2529



65.8505, 64.8282, 151.0189

# Square

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



48.4349, 64.8282, 33.2529



46.6230, 64.8282, 119.7809



76.9976, 64.8282, 128.7750



79.5242, 64.8282, 37.1301



# Rectangle

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



48.4349, 64.8282, 33.2529



42.3412, 64.8282, 71.6576



76.9976, 64.8282, 128.7750



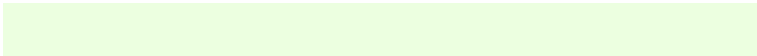
86.0025, 64.8282, 69.5269

# Sweetspot

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



48.4365, 64.8310, 33.2543



83.9603, 94.8076, 84.6803



54.2240, 54.7758, 31.0084



17.7308, 20.1800, 17.6128



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

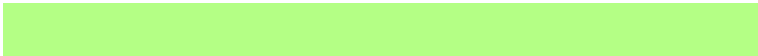


# Same Dimension

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



48.4365, 64.8310, 33.2543



58.8341, 82.9293, 34.9518



42.4625, 61.6743, 36.4555



14.0303, 15.5958, 14.5776



17.9288, 32.2751, 5.2848



1.3409, 2.2877, 0.3709



# Inverse Universe

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



44.0203, 34.1776, 76.2318



52.2280, 37.2094, 99.0372



52.6951, 38.7886, 70.3584



13.7521, 13.6557, 17.2987



13.9589, 6.2914, 41.5270



1.0669, 0.4873, 2.8831



# Previews

## White Background



This preview shows how the XYZ color 48.4349, 64.8282, 33.2529 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 48.4349, 64.8282, 33.2529 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

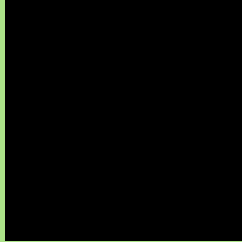
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.4349, 64.8282, 33.2529**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.4349, 64.8282, 33.2529.



This preview shows how white text looks on a background with the XYZ color 48.4349, 64.8282,



# 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

48.4349, 64.8282, 33.2529

### Protanopia

59.3890, 64.3629, 30.4122

### Deuteranopia

65.5528, 64.2355, 34.5349



## Tritanopia

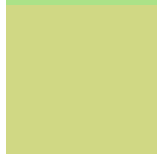
59.1156, 64.8662, 85.7486

# Trichromacy



## Original Color

48.4349, 64.8282, 33.2529



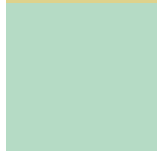
## Protanomaly

54.7331, 64.1876, 31.3345



## Deuteranomaly

57.9044, 63.5162, 34.0189



## Tritanomaly

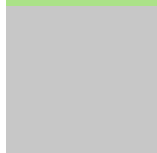
54.4656, 64.5180, 62.4059

# Monochromacy



## Original Color

48.4349, 64.8282, 33.2529



## Achromatopsia

54.2854, 57.1125, 62.1955



## Achromatomaly

51.6232, 59.5543, 49.8486

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.4349, 64.8282, 33.2529 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(171, 226, 136)` looks like.

```
.text, #text, p{  
    color:rgb(171, 226, 136)  
}
```

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(171, 226, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 226, 136) }
```

## Border

The CSS property to change the border of an element to XYZ 48.4349, 64.8282, 33.2529 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(171, 226, 136) }
```



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

```
.border{ border-color:rgb(171, 226, 136) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 226, 136)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 226, 136); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 226, 136);  
box-shadow:4px 4px 4px 4px rgb(171, 226,  
136) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.4349, 64.8282, 33.2529 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 226, 136) }
```

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

```
.background{ background-color: rgb(171,  
226, 136) }
```

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