

# Converting Colors

XYZ(48.8319, 67.7406, 23.7110)

Have a look what the booklet for  
XYZ(48.8319, 67.7406, 23.7110)  
contains.

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# Color

**XYZ(48.8109, 67.7114,  
23.5937)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AEE868
RGB	174, 232, 104
RGB Percent	68%, 91%, 41%
CMY	0.3176, 0.0902, 0.5921
CMYK	0.25, 0.00, 0.55, 0.09
HSL	87°, 74%, 66%
HSV	87°, 55%, 91%
XYZ	48.8109, 67.7114, 23.5937
YIQ	200.0660, 6.5200, -52.1040

# Conversions

## Conversions Part 2

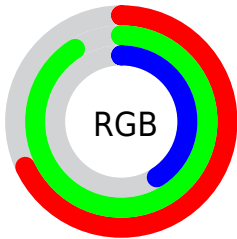
<b>Format</b>	<b>Color</b>
<b>RYB</b>	104, 232, 162
Decimal	11462760
CIELab	85.86, -38.66, 55.50
CIELCh	86, 67.634, 124.861
Yxy	67.7114, 0.3484, 0.4833
Android (android.graphics.Color)	4289652840 (0xFFAEE868)
YUV	200.0660, -47.3605, -22.8599
Hunter-Lab	82.2869, -38.1197, 40.6009

# Details

The XYZ color **48.8109, 67.7114, 23.5937** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **34.4190, 23.4101, 79.0523**, and the grayscale version is **55.2218, 58.0977, 63.2684**.

A 20% lighter version of the original color is **75.2103, 91.1444, 45.9764**, and **23.5723, 35.1325, 8.5565** is the 20% darker color. If you saturate the color by 10%, you get **45.5400, 66.1453, 18.1130**, and if you desaturate by 10%, it is **52.5926, 69.5077, 30.7929**.

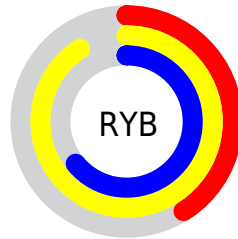
# Distribution



Red (68%)

Green (91%)

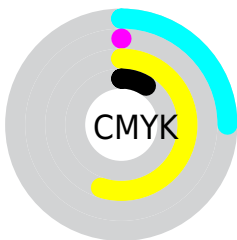
Blue (41%)



Red (41%)

Yellow (91%)

Blue (64%)

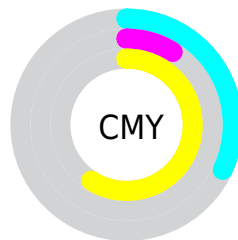


Cyan (25%)

Magenta (0%)

Yellow (55%)

Black (9%)



Cyan (32%)

Magenta (9%)


Yellow (59%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.8109, 67.7114, 23.5937 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 48.8109, 67.7114, 23.5937 by changing the saturation by 10% instead.





 48.8109, 67.7114,  
23.5937


 48.8109, 67.7114,  
23.5937


372.5267,  
452.4728, 283.9800


 34.6834, 49.6630,  
14.8231


 87.6129, 115.9392,  
50.3019


 23.5845, 35.1457,  
8.5501


 113.0182,  
146.8873, 69.0765

 15.1487, 23.7751,  
4.3561


 142.9135,  
182.9042, 92.0229

 9.0108, 15.1669,  
1.8227

 177.6640,  
224.3741, 119.5595

 4.8054, 8.9366,  
0.4428

217.6353,  
271.6816, 152.1050

 2.1671, 4.6998,  
0.0000

263.1926,

 0.7253, 2.0723,

325.2109, 190.0779

0.0000

314.7013,  
385.3465, 233.8967

0.0000, 0.6490,  
0.0000

0.0000, 0.0000,  
0.0000

48.8109, 67.7114,  
23.5937

48.8109, 67.7114,  
23.5937

45.5400, 66.1453,  
18.1130

52.5926, 69.5077,  
30.7929

42.7435, 64.7873,  
14.2026


56.9084, 71.5369,  
39.8339


40.3870, 63.6255,  
11.6963


61.7859, 73.8129,  
50.8337


38.4269, 62.6420,  
10.3886


67.2488, 76.3456,  
63.8985

 37.5911, 62.2182,  
10.0281

 73.3195, 79.1445,  
79.1265

 80.0192, 82.2182,  
96.6100

 85.4759, 84.8186,  
106.4743

 88.1481, 86.1961,  
106.5994

# Harmonies

## Analogous

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



61.8704, 67.7114, 17.2566



48.8109, 67.7114, 23.5937



41.0135, 67.7114, 43.1381

# Triad

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



48.8109, 67.7114, 23.5937



52.5316, 67.7114, 180.8412



98.7734, 67.7114, 66.7421

# Complementary

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



48.8109, 67.7114, 23.5937



34.4190, 23.4101, 79.0523

# 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.



95.2110, 67.7114, 116.1543



48.8109, 67.7114, 23.5937



66.9107, 67.7114, 195.3292

# Square

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



48.8109, 67.7114, 23.5937



42.9082, 67.7114, 133.9147



82.8980, 67.7114, 168.0299



91.9765, 67.7114, 34.9709



# Rectangle

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



48.8109, 67.7114, 23.5937



39.0481, 67.7114, 66.3562



82.8980, 67.7114, 168.0299



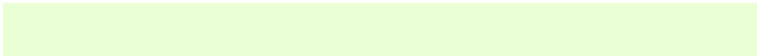
98.7566, 67.7114, 81.6227

# Sweetspot

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



48.8125, 67.7144, 23.5952



81.9780, 93.9786, 75.8751



48.6300, 43.8577, 19.0000



17.2475, 19.9767, 15.5172



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.



48.8125, 67.7144, 23.5952



55.9969, 81.7552, 21.7817



37.8377, 62.0566, 23.0815



14.9388, 16.4755, 15.2972



21.0152, 34.6152, 5.5738



1.6597, 2.6130, 0.4169



# Inverse Universe

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



34.4190, 23.4101, 79.0523



36.5314, 21.7709, 96.8845



50.7572, 31.8328, 79.8169



14.2001, 14.2054, 18.1378



11.4700, 4.9789, 42.7397



0.9534, 0.4225, 3.1633



# Previews

## White Background



This preview shows how the XYZ color 48.8109, 67.7114, 23.5937 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 48.8109, 67.7114, 23.5937 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 48.8109, 67.7114, 23.5937**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.8109, 67.7114, 23.5937.



This preview shows how white text looks on a background with the XYZ color 48.8109, 67.7114,



# 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

48.8109, 67.7114, 23.5937

### Protanopia

61.1762, 66.9795, 21.2593

### Deuteranopia

67.7552, 67.1802, 32.6885



## Tritanopia

61.8050, 67.3474, 88.3391

# Trichromacy



## Original Color

48.8109, 67.7114, 23.5937



## Protanomaly

55.8883, 66.9291, 22.0296



## Deuteranomaly

59.3026, 66.2249, 28.7259



## Tritanomaly

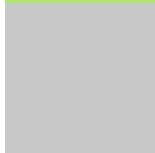
55.3649, 66.6775, 56.9657

# Monochromacy



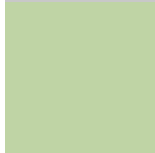
## Original Color

48.8109, 67.7114, 23.5937



## Achromatopsia

54.8990, 57.7580, 62.8985



## Achromatomaly

51.8209, 60.8799, 44.6171

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.8109, 67.7114, 23.5937 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(174, 232, 104)` looks like.

```
.text, #text, p{  
    color:rgb(174, 232, 104)  
}
```

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(174, 232, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(174, 232, 104) }
```

## Border

The CSS property to change the border of an element to XYZ 48.8109, 67.7114, 23.5937 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(174, 232, 104) }
```



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

```
.border{ border-color:rgb(174, 232, 104) }
```

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

Here you see how a box with a 4 pixel `rgb(174, 232, 104)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(174, 232, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(174, 232, 104);  
box-shadow:4px 4px 4px 4px rgb(174, 232,  
104) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.8109, 67.7114, 23.5937 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(174, 232, 104) }
```

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

```
.background{ background-color: rgb(174,  
232, 104) }
```

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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