

# Converting Colors

XYZ(48.8344, 69.1067, 10.7651)

Have a look what the booklet for  
XYZ(48.8344, 69.1067, 10.7651)  
contains.

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# Color

**XYZ(48.9997, 69.3617,  
10.8056)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B6EB00
RGB	182, 235, 0
RGB Percent	71%, 92%, 0%
CMY	0.2863, 0.0784, 0.9999
CMYK	0.23, 0.00, 1.00, 0.08
HSL	74°, 100%, 46%
HSV	74°, 100%, 92%
XYZ	48.9997, 69.3617, 10.8056
YIQ	192.3630, 43.8470, -84.3210

# Conversions

## Conversions Part 2

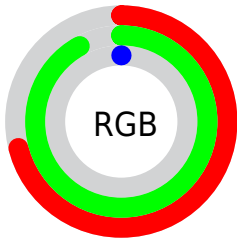
Format	Color
<a href="#">RYB</a>	<a href="#">0, 235, 53</a>
Decimal	<a href="#">11987712</a>
CIELab	<a href="#">86.68, -41.68, 84.44</a>
CIElCh	<a href="#">87, 94.170, 116.271</a>
Yxy	<a href="#">69.3617, 0.3794, 0.5370</a>
Android (android.graphics.Color)	<a href="#">4290177792 (0xFFB6EB00)</a>
YUV	<a href="#">192.3630, -94.8350, -9.0884</a>
Hunter-Lab	<a href="#">83.2837, -40.7265, 50.6060</a>

# Details

The XYZ color **48.9997, 69.3617, 10.8056** is a dark color, and the websafe version is hex **CCFF33**. The color can be described as middle washed chartreuse. A complement of this color would be **16.4668, 6.7572, 79.0377**, and the grayscale version is **50.8389, 53.4864, 58.2467**.

A 20% lighter version of the original color is **74.2234, 91.1354, 23.3518**, and **24.2885, 36.4512, 5.7556** is the 20% darker color. If you saturate the color by 10%, you get **48.9993, 69.3638, 10.8060**, and if you desaturate by 10%, it is **50.4371, 70.0865, 11.7087**.

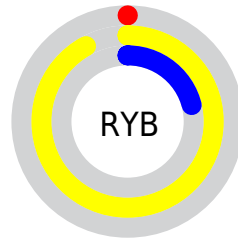
# Distribution



Red (71%)

Green (92%)

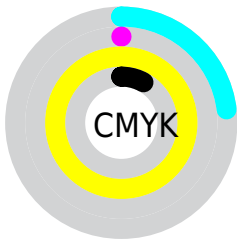
Blue (0%)



Red (0%)

Yellow (92%)

Blue (21%)

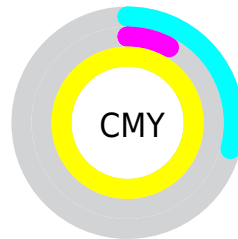


Cyan (23%)

Magenta (0%)

Yellow (100%)

Black (8%)



Cyan (29%)

Magenta (8%)


Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.9997, 69.3617, 10.8056 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 48.9997, 69.3617, 10.8056 by changing the saturation by 10% instead.





 48.9997, 69.3617,  
10.8056


 48.9997, 69.3617,  
10.8056


373.2581,  
458.3056, 207.0183


 34.8338, 51.0063,  
5.8237


 87.8917, 118.2980,  
27.9313


 23.7008, 36.2136,  
2.6712


 113.3486,  
149.6478, 40.9121


 15.2353, 24.5992,  
0.9289


 143.2997,  
186.0978, 57.3965

 9.0721, 15.7787,  
0.0000

 178.1106,  
228.0325, 77.8027

 4.8457, 9.3677,  
0.0000

 218.1465,  
275.8362, 102.5495

 2.1909, 4.9818,  
0.0000

 263.7728,

 0.7379, 2.2366,

329.8934, 132.0553

0.0000

315.3549,  
390.5884, 166.7387

■ 0.0000, 0.7398,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 48.9997, 69.3617,  
10.8056

■ 48.9997, 69.3617,  
10.8056

■ 48.9993, 69.3638,  
10.8060

■ 50.4371, 70.0865,  
11.7087

■ 52.1146, 70.9105,  
13.6333

■ 54.0956, 71.8614,  
16.9028

■ 56.4162, 72.9538,  
21.7061

■ 59.1073, 74.2001,  
28.2021

■ 62.1957, 75.6111,  
36.5300

■ 65.7055, 77.1965,  
46.8142

■ 69.6588, 78.9651,  
59.1687

■ 74.0760, 80.9253,  
73.6983

# Harmonies

## Analogous

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



68.7012, 69.3617, 7.8016



48.9997, 69.3617, 10.8056



36.7565, 69.3617, 26.4235

# Triad

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



48.9997, 69.3617, 10.8056



45.2120, 69.3617, 226.6300



117.4641, 69.3617, 83.6358

# Complementary

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



48.9997, 69.3617, 10.8056



16.4668, 6.7572, 79.0377

# 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.



107.4815, 69.3617, 164.1521



48.9997, 69.3617, 10.8056



63.2270, 69.3617, 270.9102

# Square

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



48.9997, 69.3617, 10.8056



34.9335, 69.3617, 142.4091



86.3608, 69.3617, 243.3317



111.3175, 69.3617, 33.7540



# Rectangle

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



48.9997, 69.3617, 10.8056



32.9149, 69.3617, 50.3797



86.3608, 69.3617, 243.3317



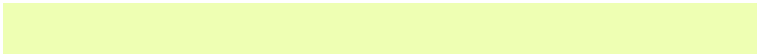
115.8356, 69.3617, 107.8881

# Sweetspot

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



49.0013, 69.3648, 10.8071



79.0198, 92.8871, 56.1474



35.4443, 20.0259, 1.9982



16.5176, 19.7034, 10.8356



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.



49.0013, 69.3648, 10.8071



58.9108, 83.4547, 13.0034



31.9981, 60.5993, 10.0113



16.0003, 17.4457, 16.0428



27.3843, 38.6616, 6.0191



2.2316, 3.0778, 0.4765



# Inverse Universe

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



16.4668, 6.7572, 79.0377



19.7674, 8.1053, 95.1304



31.2367, 14.3713, 79.7289



14.5490, 14.7128, 18.9953



9.2538, 3.8064, 43.9899

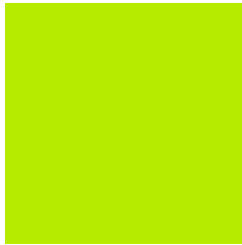


0.8081, 0.3409, 3.4581



# Previews

## White Background



This preview shows how the XYZ color 48.9997, 69.3617, 10.8056 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 48.9997, 69.3617, 10.8056 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

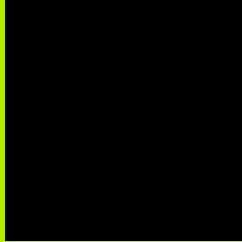
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 48.9997, 69.3617, 10.8056**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.9997, 69.3617, 10.8056.



This preview shows how white text looks on a background with the XYZ color 48.9997, 69.3617,



# 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

48.9997, 69.3617, 10.8056

### Protanopia

62.1211, 68.8588, 10.0169

### Deuteranopia

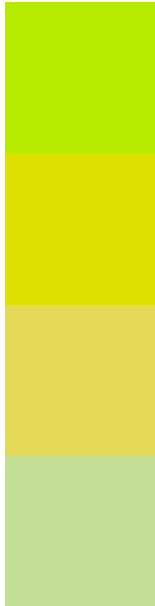
68.4844, 68.6385, 32.9316



## Tritanopia

64.5688, 68.7555, 89.2249

# Trichromacy



## Original Color

48.9997, 69.3617, 10.8056

## Protanomaly

56.4744, 68.6835, 10.2807

## Deuteranomaly

58.7866, 67.3249, 18.9134

## Tritanomaly

54.6664, 67.1154, 38.9275

# Monochromacy



## Original Color

48.9997, 69.3617, 10.8056

## Achromatopsia

50.1023, 52.7115, 57.4028

## Achromatomaly

46.8078, 57.2083, 26.9876

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.9997, 69.3617, 10.8056 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(182, 235, 0)` looks like.

```
.text, #text, p{  
    color:rgb(182, 235, 0)  
}
```

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(182, 235, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(182, 235, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 48.9997, 69.3617, 10.8056 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(182, 235, 0) }
```



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

```
.border{ border-color:rgb(182, 235, 0) }
```

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

Here you see how a box with a 4 pixel rgb(182, 235, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(182, 235, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(182, 235, 0);  
box-shadow:4px 4px 4px 4px rgb(182, 235,  
0) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.9997, 69.3617, 10.8056 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(182, 235, 0) }
```

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

```
.background{ background-color: rgb(182,  
235, 0) }
```

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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