

# Converting Colors

XYZ(49.0368, 65.9326, 15.7720)

Have a look what the booklet for  
XYZ(49.0368, 65.9326, 15.7720)  
contains.

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# Color

**XYZ(49.0368, 65.9326,  
15.7720)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BBE345
RGB	187, 227, 69
RGB Percent	73%, 89%, 27%
CMY	0.2667, 0.1098, 0.7294
CMYK	0.18, 0.00, 0.70, 0.11
HSL	75°, 74%, 58%
HSV	75°, 70%, 89%
XYZ	49.0368, 65.9326, 15.7720
YIQ	197.0280, 26.8780, -57.6180

# Conversions

## Conversions Part 2

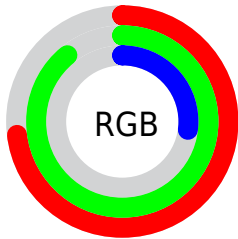
<b>Format</b>	<b>Color</b>
<b>RYB</b>	69, 227, 109
Decimal	12313413
CIELab	84.96, -34.16, 69.04
CIElCh	85, 77.027, 116.328
Yxy	65.9326, 0.3751, 0.5043
Android (android.graphics.Color)	4290503493 (0xFFBBE345)
YUV	197.0280, -63.1178, -8.7946
Hunter-Lab	81.1989, -34.3002, 45.3228

# Details

The XYZ color **49.0368, 65.9326, 15.7720** is a light color, and the websafe version is hex **99CC33**. The color can be described as light muted chartreuse. A complement of this color would be **22.3024, 13.0552, 74.0213**, and the grayscale version is **53.4475, 56.2309, 61.2354**.

A 20% lighter version of the original color is **77.5319, 92.6192, 33.5296**, and **23.7688, 33.8716, 5.2851** is the 20% darker color. If you saturate the color by 10%, you get **47.0849, 64.9950, 12.6801**, and if you desaturate by 10%, it is **51.3175, 67.0129, 20.2881**.

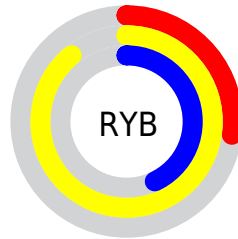
# Distribution



Red (73%)

Green (89%)

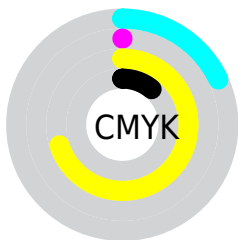
Blue (27%)



Red (27%)

Yellow (89%)

Blue (43%)

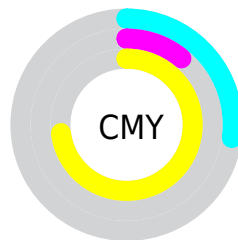


Cyan (18%)

Magenta (0%)

Yellow (70%)

Black (11%)



Cyan (27%)

Magenta (11%)


Yellow (73%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.0368, 65.9326, 15.7720 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 49.0368, 65.9326, 15.7720 by changing the saturation by 10% instead.





 49.0368, 65.9326,  
15.7720


 49.0368, 65.9326,  
15.7720


373.4017,  
446.1358, 239.7922


 34.8633, 48.2177,  
9.2104


 87.9465, 113.3896,  
36.9632


 23.7236, 33.9993,  
4.7800


 113.4134,  
143.9005, 52.4298


 15.2524, 22.8931,  
2.0623


 143.3756,  
179.4454, 71.7019

 9.0842, 14.5146,  
0.5932

 178.1983,  
220.4089, 95.1979

 4.8537, 8.4794,  
0.0000

 218.2469,  
267.1753, 123.3364

 2.1955, 4.4032,  
0.0000

263.8868,

 0.7404, 1.9016,

320.1290, 156.5359

0.0000

315.4833,  
379.6544, 195.2150

0.0000, 0.5493,  
0.0000

0.0000, 0.0000,  
0.0000

49.0368, 65.9326,  
15.7720

49.0368, 65.9326,  
15.7720

47.0849, 64.9950,  
12.6801

51.3175, 67.0129,  
20.2881

45.4239, 64.1778,  
10.8362


53.9505, 68.2384,  
26.3691


44.0004, 63.4620,  
9.9563


56.9621, 69.6220,  
34.1435


43.9461, 63.4345,  
9.9279


60.3746, 71.1727,  
43.7252

 64.2084, 72.8987,  
55.2186

 68.4823, 74.8075,  
68.7198

 73.2140, 76.9065,  
84.3185

 78.4201, 79.2021,  
102.0991

 81.0260, 80.4648,  
105.8685

# Harmonies

## Analogous

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



64.8221, 65.9326, 12.5004



49.0368, 65.9326, 15.7720



38.8528, 65.9326, 30.8549

# Triad

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



49.0368, 65.9326, 15.7720



45.9690, 65.9326, 183.8930



102.0856, 65.9326, 78.0667

# Complementary

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



49.0368, 65.9326, 15.7720



22.3024, 13.0552, 74.0213

# 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.



94.6398, 65.9326, 138.6494



49.0368, 65.9326, 15.7720



60.5601, 65.9326, 215.0722

# Square

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



49.0368, 65.9326, 15.7720



37.3239, 65.9326, 122.8941



78.6142, 65.9326, 195.5563



97.4725, 65.9326, 37.2749



# Rectangle

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



49.0368, 65.9326, 15.7720



35.5758, 65.9326, 51.5384



78.6142, 65.9326, 195.5563



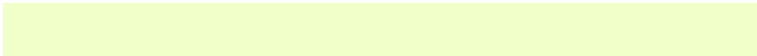
100.8796, 65.9326, 96.7520

# Sweetspot

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



49.0383, 65.9356, 15.7734



82.7820, 94.5368, 69.4206



38.1706, 27.5936, 8.9454



17.4150, 20.0982, 13.9375



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.



49.0383, 65.9356, 15.7734



60.1809, 84.0636, 15.1336



34.7909, 58.5907, 15.1066



15.2266, 16.6239, 15.3107



25.7410, 37.0514, 5.7950



1.9864, 2.7814, 0.4322



# Inverse Universe

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



22.3024, 13.0552, 74.0213



23.5590, 11.2269, 95.5330



36.6117, 20.4319, 74.6910



13.9231, 14.0626, 18.1249



9.1770, 3.7968, 42.6323



0.7622, 0.3239, 3.1543



# Previews

## White Background



This preview shows how the XYZ color 49.0368, 65.9326, 15.7720 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 49.0368, 65.9326, 15.7720 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 49.0368, 65.9326, 15.7720**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.0368, 65.9326, 15.7720.



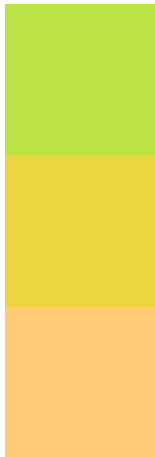
This preview shows how white text looks on a background with the XYZ color 49.0368, 65.9326,



# 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

49.0368, 65.9326, 15.7720

### Protanopia

59.4227, 65.4731, 14.5067

### Deuteranopia

65.8660, 65.2799, 26.2683



## Tritanopia

62.5882, 65.5815, 83.4885

# Trichromacy



## Original Color

49.0368, 65.9326, 15.7720

## Protanomaly

55.0096, 65.0791, 14.8165

## Deuteranomaly

58.4769, 64.8301, 21.4880

## Tritanomaly

55.4522, 64.5717, 48.0690

# Monochromacy



## Original Color

49.0368, 65.9326, 15.7720

## Achromatopsia

53.0703, 55.8340, 60.8033

## Achromatomaly

50.0532, 58.6512, 37.5369

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.0368, 65.9326, 15.7720 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(187, 227, 69)` looks like.

```
.text, #text, p{  
    color:rgb(187, 227, 69)  
}
```

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(187, 227, 69) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 227, 69) }
```

## Border

The CSS property to change the border of an element to XYZ 49.0368, 65.9326, 15.7720 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(187, 227, 69) }
```



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

```
.border{ border-color:rgb(187, 227, 69) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 227, 69)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 227, 69); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 227, 69);  
box-shadow:4px 4px 4px 4px rgb(187, 227,  
69) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.0368, 65.9326, 15.7720 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 227, 69) }
```

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

```
.background{ background-color: rgb(187,  
227, 69) }
```

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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