

# Converting Colors

XYZ(46.9798, 61.5995, 19.3078)

Have a look what the booklet for  
XYZ(46.9798, 61.5995, 19.3078)  
contains.

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# Color

**XYZ(46.9870, 61.6087,  
19.3127)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B8DB5B
RGB	184, 219, 91
RGB Percent	72%, 86%, 36%
CMY	0.2784, 0.1412, 0.6431
CMYK	0.16, 0.00, 0.58, 0.14
HSL	76°, 64%, 61%
HSV	76°, 58%, 86%
XYZ	46.9870, 61.6087, 19.3127
YIQ	193.9430, 20.2280, -47.2280

# Conversions

## Conversions Part 2

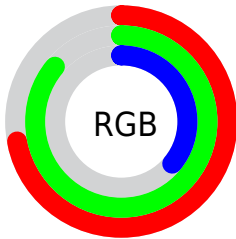
<b>Format</b>	<b>Color</b>
<b>RYB</b>	91, 219, 126
Decimal	12114779
CIELab	82.70, -30.10, 57.81
CIELCh	83, 65.176, 117.506
Yxy	61.6087, 0.3673, 0.4817
Android (android.graphics.Color)	4290304859 (0xFFB8DB5B)
YUV	193.9430, -50.7509, -8.7200
Hunter-Lab	78.4912, -30.5046, 40.3556

# Details

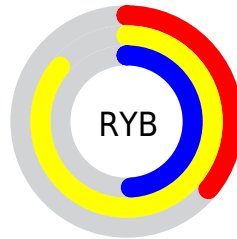
The XYZ color **46.9870, 61.6087, 19.3127** is a light color, and the websafe version is hex **99CC33**. The color can be described as light muted chartreuse. A complement of this color would be **25.1338, 17.0339, 68.9846**, and the grayscale version is **51.5284, 54.2118, 59.0367**.

A 20% lighter version of the original color is **77.4888, 92.4416, 40.5470**, and **22.4809, 31.2615, 6.4393** is the 20% darker color. If you saturate the color by 10%, you get **44.7728, 60.5629, 14.9771**, and if you desaturate by 10%, it is **49.5406, 62.8016, 25.1054**.

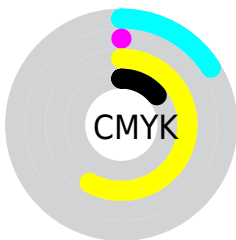
# Distribution



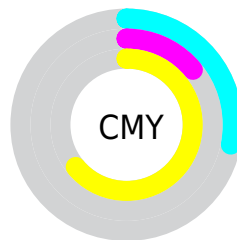
- Red (72%)
- Green (86%)
- Blue (36%)



- Red (36%)
- Yellow (86%)
- Blue (49%)



- Cyan (16%)
- Magenta (0%)
- Yellow (58%)
- Black (14%)



- Cyan (28%)
- Magenta (14%)
- Yellow (64%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.9870, 61.6087, 19.3127 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 46.9870, 61.6087, 19.3127 by changing the saturation by 10% instead.





 46.9870, 61.6087,  
19.3127


 46.9870, 61.6087,  
19.3127


365.4124,  
430.5023, 260.6497


 33.2333, 44.7166,  
11.7173


 84.9131, 107.1598,  
43.1055


 22.4653, 31.2343,  
6.4313


 109.8161,  
136.5876, 60.1401

 14.3177, 20.7773,  
3.0361

 139.1664,  
170.9627, 81.1582

 8.4251, 12.9613,  
1.1131

 173.3291,  
210.6696, 106.5782

 4.4223, 7.4019,  
0.0000

212.6698,  
256.0926, 136.8189

 1.9437, 3.7147,  
0.0000

257.5536,

 0.6020, 1.5153,

307.6161, 172.2987

0.0000

308.3460,  
365.6245, 213.4361

■ 0.0000, 0.2994,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 46.9870, 61.6087,  
19.3127

■ 46.9870, 61.6087,  
19.3127

■ 44.7728, 60.5629,  
14.9771

■ 49.5406, 62.8016,  
25.1054

■ 42.8680, 59.6457,  
11.9642


■ 52.4516, 64.1424,  
32.4659


■ 41.2442, 58.8477,  
10.1218


■ 55.7419, 65.6420,  
41.4988


■ 39.8572, 58.1512,  
9.2213

■ 59.4300, 67.3081,  
52.2985


 39.6532, 58.0482,  
9.1145

 63.5333, 69.1476,  
64.9526

 68.0680, 71.1671,  
79.5425

 73.0492, 73.3727,  
96.1450

 76.6337, 75.0272,  
105.0504

 78.6103, 76.0462,  
105.1429

# Harmonies

## Analogous

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



59.7362, 61.6087, 15.7856



46.9870, 61.6087, 19.3127



38.6653, 61.6087, 33.6112

# Triad

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



46.9870, 61.6087, 19.3127



45.2571, 61.6087, 155.3481



89.7682, 61.6087, 70.4917

# Complementary

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



46.9870, 61.6087, 19.3127



25.1338, 17.0339, 68.9846

# 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.



84.3149, 61.6087, 117.5891



46.9870, 61.6087, 19.3127



57.3939, 61.6087, 177.3005

# Square

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



46.9870, 61.6087, 19.3127



37.7840, 61.6087, 109.3438



71.8861, 61.6087, 161.2933



85.8171, 61.6087, 37.4109



# Rectangle

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



46.9870, 61.6087, 19.3127



36.0167, 61.6087, 51.7507



71.8861, 61.6087, 161.2933



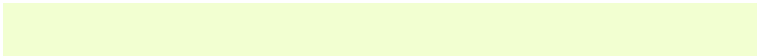
88.9572, 61.6087, 85.1751

# Sweetspot

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



46.9885, 61.6115, 19.3140



84.0527, 95.0849, 74.3097



38.4545, 30.5183, 13.7622



17.6499, 20.1986, 14.8860



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.



46.9885, 61.6115, 19.3140



62.5868, 85.1970, 20.0750



35.0884, 55.4768, 18.7571



13.7969, 15.0755, 13.9083



23.6215, 34.4748, 5.4093



1.6115, 2.2753, 0.3542



# Inverse Universe

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



25.1338, 17.0339, 68.9846



29.1726, 16.8418, 96.3210



37.5488, 23.4340, 69.5656



12.6712, 12.7886, 16.4527



8.7734, 3.6470, 39.9799



0.6506, 0.2787, 2.5939



# Previews

## White Background



This preview shows how the XYZ color 46.9870, 61.6087, 19.3127 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 46.9870, 61.6087, 19.3127 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 46.9870, 61.6087, 19.3127**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.9870, 61.6087, 19.3127.



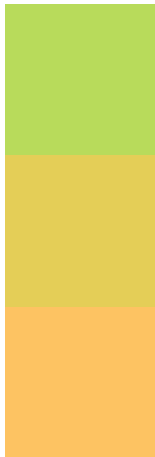
This preview shows how white text looks on a background with the XYZ color 46.9870, 61.6087,



# 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

46.9870, 61.6087, 19.3127

### Protanopia

55.7865, 61.3247, 17.9134

### Deuteranopia

62.2277, 60.7947, 20.0101



## Tritanopia

58.8093, 61.5587, 77.8897

# Trichromacy



## Original Color

46.9870, 61.6087, 19.3127

## Protanomaly

52.2071, 61.2902, 18.3111

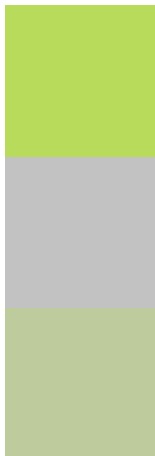
## Deuteranomaly

55.6533, 60.5059, 19.5720

## Tritanomaly

53.1824, 61.1139, 49.0375

# Monochromacy



## Original Color

46.9870, 61.6087, 19.3127

## Achromatopsia

51.2775, 53.9479, 58.7493

## Achromatomaly

48.6769, 56.0933, 40.1598

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.9870, 61.6087, 19.3127 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(184, 219, 91)` looks like.

```
.text, #text, p{  
    color:rgb(184, 219, 91)  
}
```

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(184, 219, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(184, 219, 91) }
```

## Border

The CSS property to change the border of an element to XYZ 46.9870, 61.6087, 19.3127 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(184, 219, 91) }
```



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

```
.border{ border-color:rgb(184, 219, 91) }
```

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

Here you see how a box with a 4 pixel `rgb(184, 219, 91)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(184, 219, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(184, 219, 91);  
box-shadow:4px 4px 4px 4px rgb(184, 219,  
91) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.9870, 61.6087, 19.3127 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(184, 219, 91) }
```

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

```
.background{ background-color: rgb(184,  
219, 91) }
```

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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