

# Converting Colors

XYZ(49.0941, 66.3613, 20.4864)

Have a look what the booklet for  
XYZ(49.0941, 66.3613, 20.4864)  
contains.

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# Color

**XYZ(49.0106, 66.2222,  
20.5550)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B6E45D
RGB	182, 228, 93
RGB Percent	71%, 89%, 36%
CMY	0.2863, 0.1059, 0.6353
CMYK	0.20, 0.00, 0.59, 0.11
HSL	80°, 71%, 63%
HSV	80°, 59%, 89%
XYZ	49.0106, 66.2222, 20.5550
YIQ	198.8560, 15.9190, -51.7370

# Conversions

## Conversions Part 2

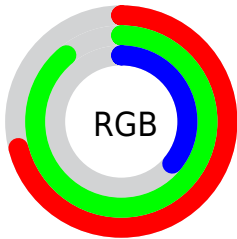
Format	Color
<a href="#">RYB</a>	<a href="#">93, 228, 139</a>
Decimal	<a href="#">11986013</a>
CIELab	<a href="#">85.11, -34.87, 59.60</a>
CIELCh	<a href="#">85, 69.047, 120.332</a>
Yxy	<a href="#">66.2222, 0.3609, 0.4877</a>
Android (android.graphics.Color)	<a href="#">4290176093 (0xFFB6E45D)</a>
YUV	<a href="#">198.8560, -52.1870, -14.7827</a>
Hunter-Lab	<a href="#">81.3770, -34.9053, 41.9879</a>

# Details

The XYZ color **49.0106, 66.2222, 20.5550** 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 **28.5681, 18.9210, 75.5490**, and the grayscale version is **54.5019, 57.3402, 62.4435**.

A 20% lighter version of the original color is **77.0405, 92.1834, 41.7497**, and **23.6751, 34.0680, 6.9970** is the 20% darker color. If you saturate the color by 10%, you get **46.3636, 64.9596, 15.9229**, and if you desaturate by 10%, it is **52.0636, 67.6636, 26.7798**.

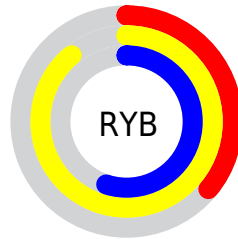
# Distribution



Red (71%)

Green (89%)

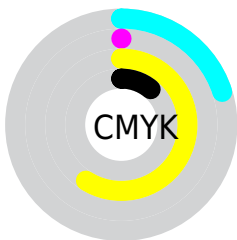
Blue (36%)



Red (36%)

Yellow (89%)

Blue (55%)

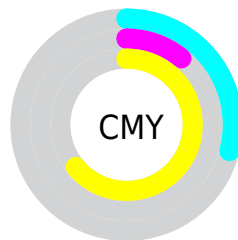


Cyan (20%)

Magenta (0%)

Yellow (59%)

Black (11%)



Cyan (29%)

Magenta (11%)

Yellow (64%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.0106, 66.2222, 20.5550 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 49.0106, 66.2222, 20.5550 by changing the saturation by 10% instead.



■ 49.0106, 66.2222,  
20.5550

■ 49.0106, 66.2222,  
20.5550

373.3003,  
447.1711, 267.6069

■ 34.8425, 48.4528,  
12.6110

■ 87.9078, 113.8052,  
45.2169

■ 23.7075, 34.1856,  
7.0337

■ 113.3676,  
144.3876, 62.7719

■ 15.2403, 23.0362,  
3.4044

■ 143.3220,  
180.0097, 84.3677

■ 9.0756, 14.6203,  
1.3047

■ 178.1363,  
221.0561, 110.4227

■ 4.8481, 8.5533,  
0.0656

218.1760,  
267.9110, 141.3557

■ 2.1922, 4.4510,  
0.0000

263.8063,

■ 0.7386, 1.9289,

320.9589, 177.5850

0.0000

315.3926,  
380.5841, 219.5292

0.0000, 0.5657,  
0.0000

0.0000, 0.0000,  
0.0000

49.0106, 66.2222,  
20.5550

49.0106, 66.2222,  
20.5550

46.3636, 64.9596,  
15.9229

52.0636, 67.6636,  
26.7798

44.0886, 63.8550,  
12.7337


55.5438, 69.2856,  
34.7211


42.1527, 62.8975,  
10.8161


59.4760, 71.1005,  
44.4952


40.5024, 62.0653,  
9.8969


63.8819, 73.1171,  
56.2069


 40.3789, 62.0028,  
9.8395

 68.7811, 75.3436,  
69.9535

 74.1925, 77.7875,  
85.8253

 80.1335, 80.4562,  
103.9074

 83.1584, 81.9713,  
106.0469

 85.9141, 83.3919,  
106.1758

# Harmonies

## Analogous

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



62.7688, 66.2222, 15.8824



49.0106, 66.2222, 20.5550



40.3620, 66.2222, 37.4677

# Triad

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



49.0106, 66.2222, 20.5550



49.2655, 66.2222, 175.1119



97.8477, 66.2222, 71.6087

# Complementary

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



49.0106, 66.2222, 20.5550



28.5681, 18.9210, 75.5490

# 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.



92.6795, 66.2222, 123.3694



49.0106, 66.2222, 20.5550



63.1160, 66.2222, 196.1953

# Square

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



49.0106, 66.2222, 20.5550



40.4912, 66.2222, 124.6055



79.2915, 66.2222, 174.2151



92.4550, 66.2222, 36.9138



# Rectangle

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



49.0106, 66.2222, 20.5550



37.8171, 66.2222, 58.6526



79.2915, 66.2222, 174.2151



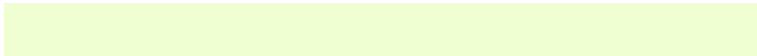
97.2794, 66.2222, 87.4708

# Sweetspot

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



49.0122, 66.2251, 20.5564



82.9987, 94.5415, 74.2604



43.0617, 35.4635, 14.9324



17.3910, 20.0651, 14.8738



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.



49.0122, 66.2251, 20.5564



59.0638, 83.3909, 19.4528



36.8576, 59.9592, 19.9876



15.0996, 16.5584, 15.3047



23.4467, 35.8687, 5.6876



1.8311, 2.7013, 0.4249



# Inverse Universe

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



28.5681, 18.9210, 75.5490



30.5917, 17.3157, 96.3376



43.2354, 26.4822, 76.2354



14.0435, 14.1247, 18.1305



10.0001, 4.2212, 42.6709



0.8356, 0.3617, 3.1577



# Previews

## White Background



This preview shows how the XYZ color 49.0106, 66.2222, 20.5550 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 49.0106, 66.2222, 20.5550 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

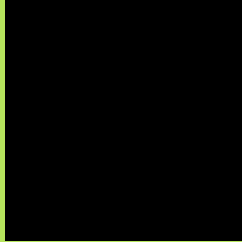
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 49.0106, 66.2222, 20.5550

## Background



This preview shows how black text looks on a background with the XYZ color 49.0106, 66.2222, 20.5550.



This preview shows how white text looks on a background with the XYZ color 49.0106, 66.2222,



# 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

49.0106, 66.2222, 20.5550

### Protanopia

59.8970, 65.6244, 18.7424

### Deuteranopia

66.2976, 65.4525, 28.5414



## Tritanopia

62.0236, 66.0048, 85.0725

# Trichromacy



## Original Color

49.0106, 66.2222, 20.5550

## Protanomaly

55.2358, 65.4799, 19.4005

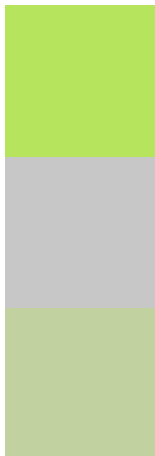
## Deuteranomaly

58.5190, 64.7732, 25.0410

## Tritanomaly

55.6643, 65.3367, 53.3935

# Monochromacy



## Original Color

49.0106, 66.2222, 20.5550

## Achromatopsia

54.2854, 57.1125, 62.1955

## Achromatomaly

51.3841, 59.9687, 42.1246

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.0106, 66.2222, 20.5550 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, 228, 93)` looks like.

```
.text, #text, p{  
    color:rgb(182, 228, 93)  
}
```

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, 228, 93) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(182, 228, 93) }
```

## Border

The CSS property to change the border of an element to XYZ 49.0106, 66.2222, 20.5550 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, 228, 93) }
```



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

```
.border{ border-color:rgb(182, 228, 93) }
```

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

Here you see how a box with a 4 pixel `rgb(182, 228, 93)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(182, 228, 93); -webkit-box-  
shadow:4px 4px 4px 4px rgb(182, 228, 93);  
box-shadow:4px 4px 4px 4px rgb(182, 228,  
93) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.0106, 66.2222, 20.5550 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(182, 228, 93) }
```

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

```
.background{ background-color: rgb(182,  
228, 93) }
```

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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