

# Converting Colors

XYZ(47.8627, 65.4917, 30.5409)

Have a look what the booklet for  
XYZ(47.8627, 65.4917, 30.5409)  
contains.

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# Color

**XYZ(47.7881, 65.3701,  
30.5211)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A8E480
RGB	168, 228, 128
RGB Percent	66%, 89%, 50%
CMY	0.3412, 0.1059, 0.4980
CMYK	0.26, 0.00, 0.44, 0.11
HSL	96°, 65%, 70%
HSV	96°, 44%, 89%
XYZ	47.7881, 65.3701, 30.5211
YIQ	198.6600, -3.6600, -43.8200

# Conversions

## Conversions Part 2

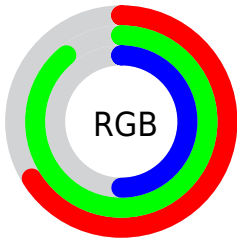
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">128, 228, 188</a>
Decimal	<a href="#">11068544</a>
CIELab	<a href="#">84.67, -36.35, 42.68</a>
CIELCh	<a href="#">85, 56.068, 130.421</a>
Yxy	<a href="#">65.3701, 0.3326, 0.4550</a>
Android (android.graphics.Color)	<a href="#">4289258624</a> (0xFFA8E480)
YUV	<a href="#">198.6600, -34.8354, -26.8888</a>
Hunter-Lab	<a href="#">80.8518, -35.9867, 34.2146</a>

# Details

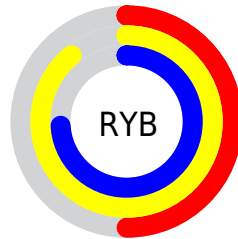
The XYZ color **47.7881, 65.3701, 30.5211** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **42.4647, 31.7331, 77.2893**, and the grayscale version is **54.2874, 57.1146, 62.1978**.

A 20% lighter version of the original color is **75.2548, 90.9050, 57.8360**, and **22.8671, 33.5376, 12.1057** is the 20% darker color. If you saturate the color by 10%, you get **43.6922, 63.4150, 23.3567**, and if you desaturate by 10%, it is **52.5309, 67.6238, 39.4785**.

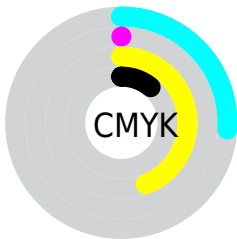
# Distribution



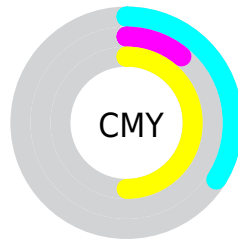
- Red (66%)
- Green (89%)
- Blue (50%)



- Red (50%)
- Yellow (89%)
- Blue (74%)



- Cyan (26%)
- Magenta (0%)
- Yellow (44%)
- Black (11%)



- Cyan (34%)
- Magenta (11%)
- Yellow (50%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.7881, 65.3701, 30.5211 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 47.7881, 65.3701, 30.5211 by changing the saturation by 10% instead.



■ 47.7881, 65.3701,  
30.5211

■ 47.7881, 65.3701,  
30.5211

368.5482,  
444.1208, 318.6085

■ 33.8697, 47.7612,  
19.9791

■ 86.1004, 112.5818,  
61.5560

■ 22.9559, 33.6379,  
12.1959

■ 111.2250,  
142.9534, 82.8860

■ 14.6815, 22.6155,  
6.7531

■ 140.8157,  
178.3480, 108.6489

■ 8.6810, 14.3099,  
3.2321

175.2379,  
219.1501, 139.2635

■ 4.5891, 8.3365,  
1.2143

214.8569,  
265.7441, 175.1482

■ 2.0405, 4.3110,  
0.0000

260.0380,

■ 0.6566, 1.8490,

318.5142, 216.7216

0.0000

311.1466,  
377.8450, 264.4022

0.0000, 0.5175,  
0.0000

0.0000, 0.0000,  
0.0000

47.7881, 65.3701,  
30.5211

47.7881, 65.3701,  
30.5211

43.6922, 63.4150,  
23.3567

52.5309, 67.6238,  
39.4785

40.2061, 61.7359,  
17.8602


57.9456, 70.1805,  
50.3343


37.2959, 60.3203,  
13.8972


64.0614, 73.0551,  
63.1908


34.9212, 59.1509,  
11.3106


70.9045, 76.2590,  
78.1417

 33.0348, 58.2075,  
9.9095

 78.4995, 79.8030,  
95.2747

 32.0783, 57.7235,  
9.4511

 85.2502, 83.0495,  
106.1447

 87.0347, 83.9695,  
106.2282

# Harmonies

## Analogous

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



57.8771, 65.3701, 22.6091



47.7881, 65.3701, 30.5211



42.0912, 65.3701, 50.4748

# Triad

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



47.7881, 65.3701, 30.5211



54.4060, 65.3701, 157.9479



88.9565, 65.3701, 59.4157

# Complementary

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



47.7881, 65.3701, 30.5211



42.4647, 31.7331, 77.2893

# 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.



87.6982, 65.3701, 96.8831



47.7881, 65.3701, 30.5211



66.5912, 65.3701, 162.8471

# Square

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



47.7881, 65.3701, 30.5211



45.5416, 65.3701, 125.9208



79.0931, 65.3701, 137.6589



82.3301, 65.3701, 35.1670



# Rectangle

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



47.7881, 65.3701, 30.5211



41.0267, 65.3701, 71.6848



79.0931, 65.3701, 137.6589



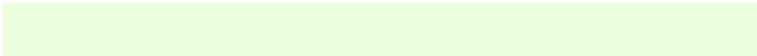
89.4613, 65.3701, 70.6714

# Sweetspot

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



47.7897, 65.3729, 30.5225



83.2216, 94.4666, 82.8495



53.8770, 54.0215, 28.0106



17.4176, 20.0343, 16.8865



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

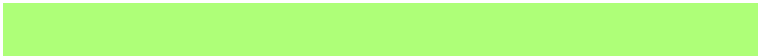


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



47.7897, 65.3729, 30.5225



56.5755, 81.8602, 30.5404



41.2349, 61.9140, 33.8232



14.7322, 16.3690, 15.2875



18.6476, 33.3947, 5.4630



1.4805, 2.5206, 0.4085



# Inverse Universe

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



42.4647, 31.7331, 77.2893



48.8210, 33.0267, 98.4094



52.3715, 36.9961, 70.7135



14.4082, 14.3126, 18.1476



14.1624, 6.3669, 42.8657



1.1507, 0.5242, 3.1725



# Previews

## White Background



This preview shows how the XYZ color 47.7881, 65.3701, 30.5211 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

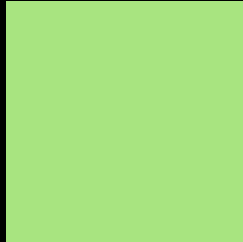
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.7881, 65.3701, 30.5211 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 47.7881, 65.3701, 30.5211**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.7881, 65.3701, 30.5211.



This preview shows how white text looks on a background with the XYZ color 47.7881, 65.3701,



# 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

47.7881, 65.3701, 30.5211

### Protanopia

59.7621, 64.9826, 27.8054

### Deuteranopia

66.0628, 64.5653, 31.5347



## Tritanopia

59.0310, 65.1853, 86.5615

# Trichromacy



## Original Color

47.7881, 65.3701, 30.5211



## Protanomaly

54.4634, 64.4908, 28.6462



## Deuteranomaly

57.8905, 63.9424, 31.1208



## Tritanomaly

53.8036, 64.5915, 61.2614

# Monochromacy



## Original Color

47.7881, 65.3701, 30.5211



## Achromatopsia

54.2854, 57.1125, 62.1955



## Achromatomaly

51.3285, 59.8017, 48.3727

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.7881, 65.3701, 30.5211 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(168, 228, 128)` looks like.

```
.text, #text, p{  
    color:rgb(168, 228, 128)  
}
```

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(168, 228, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 228, 128) }
```

## Border

The CSS property to change the border of an element to XYZ 47.7881, 65.3701, 30.5211 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(168, 228, 128) }
```



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

```
.border{ border-color:rgb(168, 228, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 228, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 228, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 228, 128);  
box-shadow:4px 4px 4px 4px rgb(168, 228,  
128) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.7881, 65.3701, 30.5211 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 228, 128) }
```

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

```
.background{ background-color: rgb(168,  
228, 128) }
```

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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