

# Converting Colors

XYZ(46.3160, 71.0880, 64.4089)

Have a look what the booklet for  
XYZ(46.3160, 71.0880, 64.4089)  
contains.

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# Color

**XYZ(46.4127, 71.2210,  
64.7269)**

# Conversions

## Conversions Part 1

Format	Color
Hex	53F5C6
RGB	83, 245, 198
RGB Percent	33%, 96%, 78%
CMY	0.6745, 0.0392, 0.2235
CMYK	0.66, 0.00, 0.19, 0.04
HSL	163°, 89%, 64%
HSV	163°, 66%, 96%
XYZ	46.4127, 71.2210, 64.7269
YIQ	191.2040, -81.4650, -48.9610

# Conversions

## Conversions Part 2

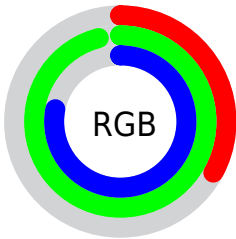
<b>Format</b>	<b>Color</b>
<b>RYB</b>	83, 178, 245
Decimal	5502406
CIELab	87.59, -52.78, 10.44
CIElCh	88, 53.807, 168.811
Yxy	71.2210, 0.2545, 0.3906
Android (android.graphics.Color)	4283692486 (0xFF53F5C6)
YUV	191.2040, 3.3504, -94.8949
Hunter-Lab	84.3925, -49.5187, 13.6009

# Details

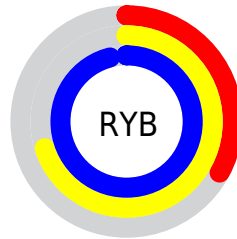
The XYZ color **46.4127, 71.2210, 64.7269** is a light color, and the websafe version is hex **66FFCC**. The color can be described as light muted cyan. A complement of this color would be **44.7810, 27.2125, 24.0141**, and the grayscale version is **49.6565, 52.2425, 56.8921**.

A 20% lighter version of the original color is **66.2044, 85.1296, 107.5500**, and **23.0173, 37.9801, 32.5033** is the 20% darker color. If you saturate the color by 10%, you get **43.8203, 69.9789, 60.4265**, and if you desaturate by 10%, it is **49.8108, 72.8776, 69.2691**.

# Distribution



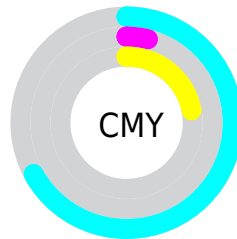
- Red (33%)
- Green (96%)
- Blue (78%)



- Red (33%)
- Yellow (70%)
- Blue (96%)



- Cyan (66%)
- Magenta (0%)
- Yellow (19%)
- Black (4%)



- Cyan (67%)
- Magenta (4%)
- Yellow (22%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.4127, 71.2210, 64.7269 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 46.4127, 71.2210, 64.7269 by changing the saturation by 10% instead.





 46.4127, 71.2210,  
64.7269


 46.4127, 71.2210,  
64.7269


363.1536,  
464.8256, 460.0892


 32.7776, 52.5226,  
46.7897


 84.0604, 120.9483,  
113.2666


 22.1146, 37.4218,  
32.5163


 108.8037,  
152.7461, 144.7063

 14.0582, 25.5342,  
21.4881

 137.9805,  
189.6790, 181.4839

 8.2431, 16.4755,  
13.2865

 171.9560,  
232.1315, 224.0179

 4.3040, 9.8613,  
7.4931

211.0958,  
280.4880, 272.7269

 1.8755, 5.3071,  
3.6893

255.7650,

 0.5625, 2.4285,

335.1330, 328.0294

1.4565

306.3292,  
396.4507, 390.3440

■ 0.0000, 0.8405,  
0.1852

■ 0.0000, 0.0000,  
0.0000

■ 46.4127, 71.2210,  
64.7269

■ 46.4127, 71.2210,  
64.7269

■ 43.8203, 69.9789,  
60.4265

■ 49.8108, 72.8776,  
69.2691

■ 41.9427, 69.0991,  
56.3562


■ 54.0817, 74.9778,  
74.0541


■ 40.6762, 68.5300,  
52.5099


■ 59.2916, 77.5576,  
79.0893

■ 40.2857, 68.3601,  
51.0745

■ 65.4988, 80.6468,  
84.3799

 72.7566, 84.2730,  
89.9309

 81.1147, 88.4617,  
95.7473

 90.6193, 93.2366,  
101.8335

 91.9227, 93.7789,  
107.7544

 91.9436, 93.7872,  
107.8645

# Harmonies

## Analogous

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



50.8969, 71.2210, 39.9439



46.4127, 71.2210, 64.7269



47.0704, 71.2210, 102.4126

# Triad

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



46.4127, 71.2210, 64.7269



75.8948, 71.2210, 164.6074



85.1222, 71.2210, 35.8588

# Complementary

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



46.4127, 71.2210, 64.7269



44.7810, 27.2125, 24.0141

# 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.



93.6012, 71.2210, 57.0730



46.4127, 71.2210, 64.7269



87.8301, 71.2210, 133.4651

# Square

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



46.4127, 71.2210, 64.7269



63.0548, 71.2210, 168.6220



94.6500, 71.2210, 91.9584



72.5541, 71.2210, 27.1112



# Rectangle

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



46.4127, 71.2210, 64.7269



50.3589, 71.2210, 130.2899



94.6500, 71.2210, 91.9584



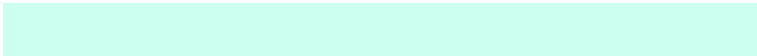
88.6091, 71.2210, 41.3931

# Sweetspot

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



46.4147, 71.2238, 64.7286



76.4202, 90.6607, 96.0677



43.6692, 70.8056, 19.5500



15.8803, 19.1670, 20.1965



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.



46.4147, 71.2238, 64.7286



47.2840, 76.3026, 64.7901



43.7447, 55.8218, 94.8585



16.7798, 18.6711, 20.1246



21.7650, 36.8508, 27.8461



1.9574, 3.2566, 2.6817



# Inverse Universe

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



44.7810, 27.2125, 24.0141



45.4629, 25.0265, 17.7632



45.3962, 32.3919, 12.0444



16.6969, 16.5616, 18.1503



20.9522, 10.7243, 4.4569

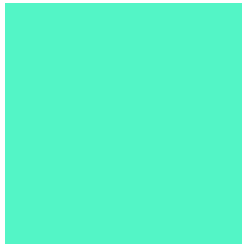


1.8843, 0.9597, 0.6169



# Previews

## White Background



This preview shows how the XYZ color 46.4127, 71.2210, 64.7269 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

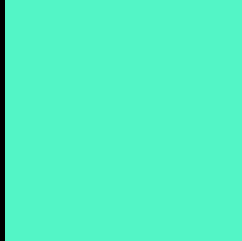
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.4127, 71.2210, 64.7269 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

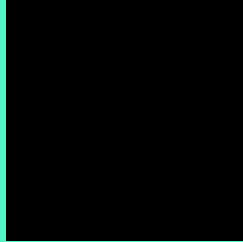
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 46.4127, 71.2210, 64.7269**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.4127, 71.2210, 64.7269.



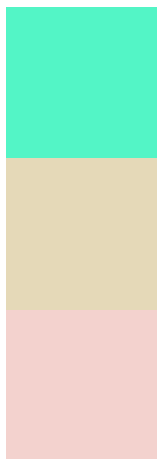
This preview shows how white text looks on a background with the XYZ color 46.4127, 71.2210,



# 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

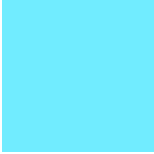
46.4127, 71.2210, 64.7269

### Protanopia

65.7777, 69.7444, 55.3426

### Deuteranopia

71.1493, 69.6041, 68.0775



## **Tritanopia**

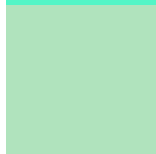
54.8555, 70.7216, 105.3672

# Trichromacy



## Original Color

46.4127, 71.2210, 64.7269



## Protanomaly

54.5589, 67.8424, 58.3634



## Deuteranomaly

57.1748, 67.4014, 66.4963



## Tritanomaly

51.1973, 70.4983, 88.7511

# Monochromacy



## Original Color

46.4127, 71.2210, 64.7269



## Achromatopsia

49.5206, 52.0996, 56.7364



## Achromatomaly

45.9808, 57.1590, 59.6483

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.4127, 71.2210, 64.7269 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(83, 245, 198)` looks like.

```
.text, #text, p{  
    color:rgb(83, 245, 198)  
}
```

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(83, 245, 198) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 245, 198) }
```

## Border

The CSS property to change the border of an element to XYZ 46.4127, 71.2210, 64.7269 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(83, 245, 198) }
```



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

```
.border{ border-color:rgb(83, 245, 198) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 245, 198)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 245, 198); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 245, 198);  
box-shadow:4px 4px 4px 4px rgb(83, 245,  
198) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.4127, 71.2210, 64.7269 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 245, 198) }
```

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

```
.background{ background-color: rgb(83, 245,  
198) }
```

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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