

# Converting Colors

XYZ(46.3633, 64.8492, 54.7231)

Have a look what the booklet for  
XYZ(46.3633, 64.8492, 54.7231)  
contains.

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# Color

**XYZ(46.5169, 64.9991,  
54.8941)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85E6B7
RGB	133, 230, 183
RGB Percent	52%, 90%, 72%
CMY	0.4784, 0.0980, 0.2823
CMYK	0.42, 0.00, 0.20, 0.10
HSL	151°, 66%, 71%
HSV	151°, 42%, 90%
XYZ	46.5169, 64.9991, 54.8941
YIQ	195.6390, -42.7250, -35.1810

# Conversions

## Conversions Part 2

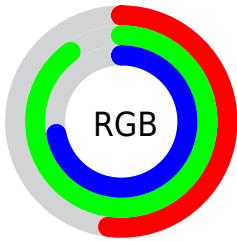
<b>Format</b>	<b>Color</b>
<b>RYB</b>	133, 197, 230
Decimal	8775351
CIELab	84.48, -39.09, 14.07
CIELCh	84, 41.544, 160.206
Yxy	64.9991, 0.2795, 0.3906
Android (android.graphics.Color)	4286965431 (0xFF85E6B7)
YUV	195.6390, -6.2310, -54.9344
Hunter-Lab	80.6220, -38.0985, 16.0659

# Details

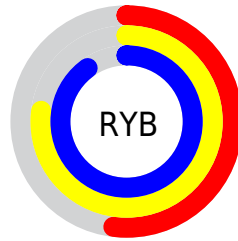
The XYZ color **46.5169, 64.9991, 54.8941** is a light color, and the websafe version is hex **99FFCC**. A complement of this color would be **49.2610, 36.8948, 47.7075**, and the grayscale version is **52.3090, 55.0331, 59.9311**.

A 20% lighter version of the original color is **72.5752, 88.6991, 94.9569**, and **22.2259, 33.4616, 26.4064** is the 20% darker color. If you saturate the color by 10%, you get **42.1613, 62.8842, 48.8735**, and if you desaturate by 10%, it is **51.7629, 67.5659, 61.4387**.

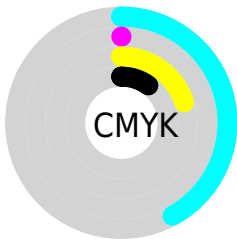
# Distribution



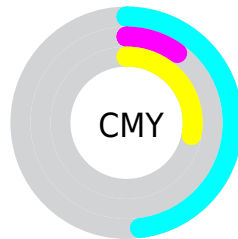
- Red (52%)
- Green (90%)
- Blue (72%)



- Red (52%)
- Yellow (77%)
- Blue (90%)



- Cyan (42%)
- Magenta (0%)
- Yellow (20%)
- Black (10%)




- Cyan (48%)
- Magenta (10%)
- Yellow (28%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.5169, 64.9991, 54.8941 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 46.5169, 64.9991, 54.8941 by changing the saturation by 10% instead.





 46.5169, 64.9991,  
54.8941

 46.5169, 64.9991,  
54.8941


363.5641,  
442.7887, 422.7810


 32.8603, 47.4603,  
38.9189


 84.2152, 112.0486,  
98.8554

 22.1781, 33.3997,  
26.3893


 108.9876,  
142.3281, 127.6785

 14.1052, 22.4328,  
16.8867

 138.1959,  
177.6233, 161.6214

 8.2761, 14.1753,  
9.9927

172.2055,  
218.3186, 201.1026

 4.3254, 8.2427,  
5.2886

211.3817,  
264.7984, 246.5406

 1.8878, 4.2506,  
2.3559


256.0900,

 0.5697, 1.8147,


317.4471, 298.3540


0.7623


306.6957,  
376.6491, 356.9613


 0.0000, 0.4963,  
0.0000

 0.0000, 0.0000,  
0.0000


 46.5169, 64.9991,  
54.8941


 46.5169, 64.9991,  
54.8941


 42.1613, 62.8842,  
48.8735


 51.7629, 67.5659,  
61.4387


 38.6363, 61.1854,  
43.3589


 57.9438, 70.6020,  
68.5159


 35.8827, 59.8742,  
38.3375

 65.1073, 74.1336,  
76.1397


 33.8306, 58.9147,  
33.7940


 73.2961, 78.1824,  
84.3220

 32.3964, 58.2642,  
29.7123

 82.5505, 82.7691,  
93.0746

 31.6012, 57.9173,  
26.8268

 86.7731, 84.7501,  
102.1215

 87.5880, 85.0761,  
106.4127

# Harmonies

## Analogous

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



50.9996, 64.9991, 38.5757



46.5169, 64.9991, 54.8941



45.8833, 64.9991, 80.1830

# Triad

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



46.5169, 64.9991, 54.8941



64.9835, 64.9991, 133.6359



76.3756, 64.9991, 42.7317

# Complementary

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



46.5169, 64.9991, 54.8941



49.2610, 36.8948, 47.7075

# 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.



80.9793, 64.9991, 62.1295



46.5169, 64.9991, 54.8941



73.9809, 64.9991, 117.2123

# Square

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



46.5169, 64.9991, 54.8941



55.9531, 64.9991, 130.2994



80.0617, 64.9991, 89.4519



67.9974, 64.9991, 32.8638



# Rectangle

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



46.5169, 64.9991, 54.8941



47.6545, 64.9991, 99.6025



80.0617, 64.9991, 89.4519



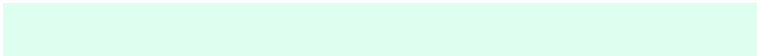
78.4520, 64.9991, 48.1240

# Sweetspot

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



46.5187, 65.0017, 54.8956



81.4090, 93.2542, 95.3218



51.7061, 68.1743, 32.6248



16.9767, 19.7391, 19.9351



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

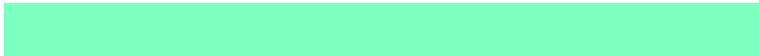


# Same Dimension

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



46.5187, 65.0017, 54.8956



53.7228, 79.6813, 62.4086



52.2548, 67.2962, 85.1015



14.4979, 16.2126, 16.8868



17.9522, 32.8130, 15.5144



1.3735, 2.4435, 1.3935



# Inverse Universe

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



49.2610, 36.8948, 47.7075



57.6407, 39.5439, 52.1523



45.2561, 35.2929, 26.6180



14.6665, 14.4838, 16.4442



20.1747, 10.2041, 9.8147

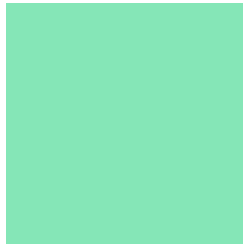


1.5376, 0.7728, 0.9716



# Previews

## White Background



This preview shows how the XYZ color 46.5169, 64.9991, 54.8941 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

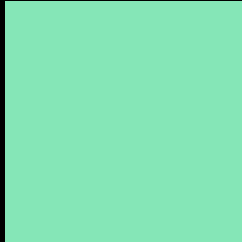
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.5169, 64.9991, 54.8941 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

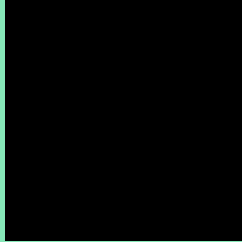
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 46.5169, 64.9991, 54.8941

## Background



This preview shows how black text looks on a background with the XYZ color 46.5169, 64.9991, 54.8941.



This preview shows how white text looks on a background with the XYZ color 46.5169, 64.9991,



# 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

46.5169, 64.9991, 54.8941

### Protanopia

60.4675, 64.1477, 48.7299

### Deuteranopia

65.2309, 63.9197, 57.0438



## Tritanopia

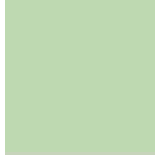
53.8821, 64.7369, 92.0937

# Trichromacy



## Original Color

46.5169, 64.9991, 54.8941



## Protanomaly

53.9839, 63.7472, 51.0542



## Deuteranomaly

56.0663, 62.8169, 56.1836



## Tritanomaly

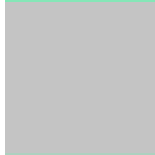
50.8667, 64.7157, 76.8282

# Monochromacy



## Original Color

46.5169, 64.9991, 54.8941



## Achromatopsia

52.4687, 55.2011, 60.1140



## Achromatomaly

49.1934, 57.7576, 57.8458

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.5169, 64.9991, 54.8941 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(133, 230, 183)` looks like.

```
.text, #text, p{  
    color:rgb(133, 230, 183)  
}
```

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(133, 230, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 230, 183) }
```

## Border

The CSS property to change the border of an element to XYZ 46.5169, 64.9991, 54.8941 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(133, 230, 183) }
```



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

```
.border{ border-color:rgb(133, 230, 183) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 230, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 230, 183); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 230, 183);  
box-shadow:4px 4px 4px 4px rgb(133, 230,  
183) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.5169, 64.9991, 54.8941 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 230, 183) }
```

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

```
.background{ background-color: rgb(133,  
230, 183) }
```

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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