

# Converting Colors

XYZ(66.4307, 81.6005, 80.5482)

Have a look what the booklet for  
XYZ(66.4307, 81.6005, 80.5482)  
contains.

<b>XYZ(66.5004, 81.6968, 80.6707)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(66.5004, 81.6968,  
80.6707)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BBF6DD
RGB	187, 246, 221
RGB Percent	73%, 96%, 87%
CMY	0.2667, 0.0353, 0.1333
CMYK	0.24, 0.00, 0.10, 0.04
HSL	155°, 77%, 85%
HSV	155°, 24%, 96%
XYZ	66.5004, 81.6968, 80.6707
YIQ	225.5090, -27.1390, -20.2830

# Conversions

## Conversions Part 2

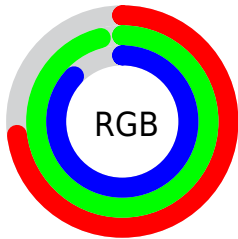
Format	Color
<a href="#">RYB</a>	<a href="#">187, 224, 246</a>
Decimal	<a href="#">12318429</a>
CIELab	<a href="#">92.44, -23.54, 5.99</a>
CIELCh	<a href="#">92, 24.289, 165.714</a>
Yxy	<a href="#">81.6968, 0.2906, 0.3570</a>
Android (android.graphics.Color)	<a href="#">4290508509 (0xFFBBF6DD)</a>
YUV	<a href="#">225.5090, -2.2229, -33.7724</a>
Hunter-Lab	<a href="#">90.3863, -26.8472, 10.3535</a>

# Details

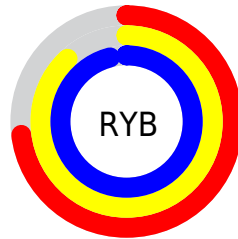
The XYZ color **66.5004, 81.6968, 80.6707** is a light color, and the websafe version is hex **CCFFCC**. A complement of this color would be **67.6629, 59.8889, 70.2843**, and the grayscale version is **71.9657, 75.7135, 82.4520**.

A 20% lighter version of the original color is **91.1182, 97.9731, 108.7160**, and **34.9693, 44.5666, 42.8355** is the 20% darker color. If you saturate the color by 10%, you get **59.6442, 78.3200, 73.3241**, and if you desaturate by 10%, it is **74.4783, 85.6463, 88.5235**.

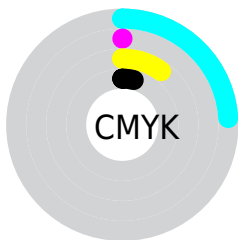
# Distribution



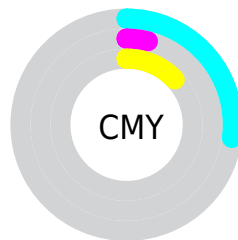
- Red (73%)
- Green (96%)
- Blue (87%)



- Red (73%)
- Yellow (88%)
- Blue (96%)



- Cyan (24%)
- Magenta (0%)
- Yellow (10%)
- Black (4%)




- Cyan (27%)
- Magenta (4%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.5004, 81.6968, 80.6707 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 66.5004, 81.6968, 80.6707 by changing the saturation by 10% instead.





 66.5004, 81.6968,  
80.6707

 66.5004, 81.6968,  
80.6707


437.6248,  
500.6329, 516.9565

 48.9479, 61.1156,  
59.7410


 113.2580,  
135.7487, 136.1282

 34.7925, 44.3185,  
42.7860


143.1938,  
169.9883, 171.4931

 23.6689, 30.9210,  
29.3871


177.9882,  
209.5495, 212.5068

 15.2116, 20.5387,  
19.1257

218.0064,  
254.8166, 259.5879

 9.0553, 12.7872,  
11.5834

263.6138,  
306.1741, 313.1548

 4.8347, 7.2822,  
6.3416

315.1758,

 2.1843, 3.6392,

364.0064, 373.6262

2.9818

373.0577,  
428.6979, 441.4206

■ 0.7345, 1.4739,  
1.0853

■ 0.0000, 0.2702,  
0.0000

■ 66.5004, 81.6968,  
80.6707

■ 66.5004, 81.6968,  
80.6707

■ 59.6442, 78.3200,  
73.3241

■ 74.4783, 85.6463,  
88.5235

■ 53.8488, 75.4782,  
66.4676

■ 83.6215, 90.1841,  
96.8873

■ 49.0577, 73.1444,  
60.0919

■ 91.8118, 94.2204,  
105.6723

■ 45.2062, 71.2856,  
54.1855

■ 92.2473, 94.3946,  
107.9658

■ 42.2216, 69.8646,  
48.7361

■ 40.0198, 68.8380,  
43.7306

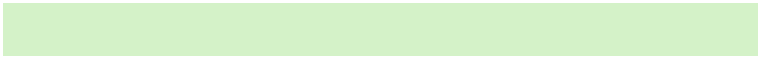
■ 38.4986, 68.1535,  
39.1547

■ 37.8216, 67.8603,  
36.6008

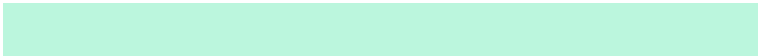
# Harmonies

## Analogous

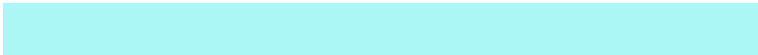
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



69.3031, 81.6968, 66.8768



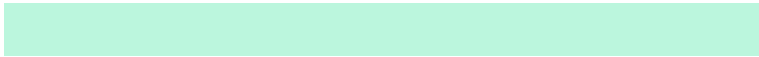
66.5004, 81.6968, 80.6707



66.5709, 81.6968, 98.6778

# Triad

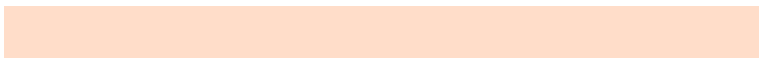
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



66.5004, 81.6968, 80.6707



80.9753, 81.6968, 126.6735



86.4129, 81.6968, 66.3726

# Complementary

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



66.5004, 81.6968, 80.6707



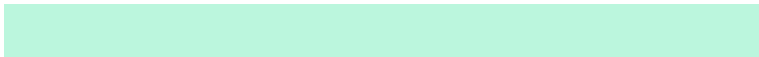
67.6629, 59.8889, 70.2843

# 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.



89.8956, 81.6968, 79.8908



66.5004, 81.6968, 80.6707



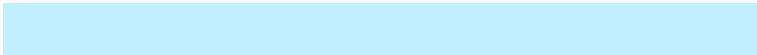
86.6424, 81.6968, 115.4225

# Square

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



66.5004, 81.6968, 80.6707



74.7015, 81.6968, 126.9570



89.9818, 81.6968, 97.7856



80.6758, 81.6968, 59.4099



# Rectangle

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



66.5004, 81.6968, 80.6707



68.2306, 81.6968, 110.7647



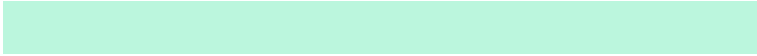
89.9818, 81.6968, 97.7856



87.8994, 81.6968, 70.2125

# Sweetspot

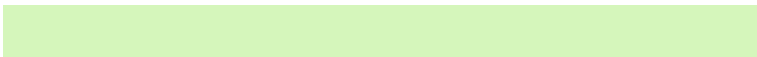
The Sweet Spot groups the original color and five complimentary colors.



66.5027, 81.7002, 80.6725



87.5910, 96.2927, 102.3186



69.2431, 83.5844, 59.4987



18.6169, 20.5455, 21.7817



0.0000, 0.0000, 0.0000

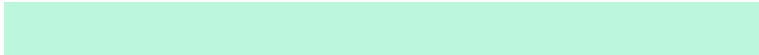


20.3446, 21.4041, 23.3091

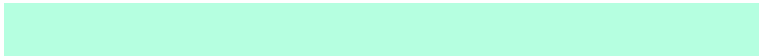


# Same Dimension

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



66.5027, 81.7002, 80.6725



68.2366, 86.7133, 83.4224



68.9027, 80.7660, 99.1507



16.6825, 18.6321, 19.6125



20.2584, 36.2482, 19.9125



1.8318, 3.2064, 2.0204



# Inverse Universe

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



67.6629, 59.8889, 70.2843



69.7066, 59.1011, 70.2774



65.5944, 60.4152, 55.2189



16.7905, 16.5991, 18.6435



21.6932, 11.0207, 8.3587

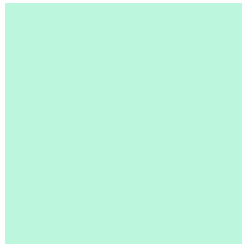


1.9568, 0.9887, 0.9991



# Previews

## White Background



This preview shows how the XYZ color 66.5004, 81.6968, 80.6707 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

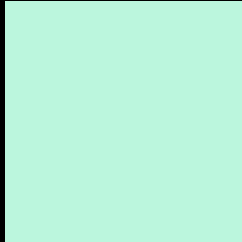
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 66.5004, 81.6968, 80.6707 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

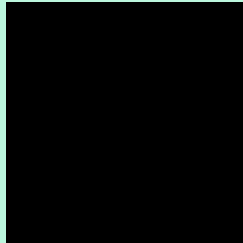
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 66.5004, 81.6968, 80.6707

## Background



This preview shows how black text looks on a background with the XYZ color 66.5004, 81.6968, 80.6707.



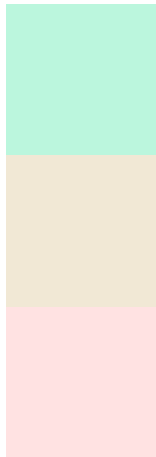
This preview shows how white text looks on a background with the XYZ color 66.5004, 81.6968,

80.6707.

# 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

66.5004, 81.6968, 80.6707

### Protanopia

77.1425, 81.2181, 74.5616

### Deuteranopia

82.1638, 81.1437, 83.2833



## **Tritanopia**

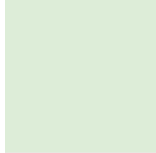
73.2736, 81.5096, 106.4787

# Trichromacy



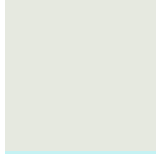
## Original Color

66.5004, 81.6968, 80.6707



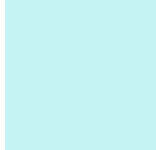
## Protanomaly

72.4977, 80.8984, 76.7597



## Deuteranomaly

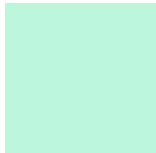
75.2266, 80.4826, 82.0908



## Tritanomaly

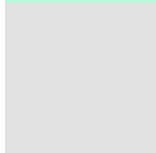
70.9558, 81.8456, 96.8520

# Monochromacy



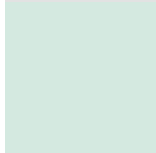
## Original Color

66.5004, 81.6968, 80.6707



## Achromatopsia

72.2879, 76.0525, 82.8211



## Achromatomaly

69.7448, 77.6567, 81.8343

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.5004, 81.6968, 80.6707 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(187, 246, 221)` looks like.

```
.text, #text, p{  
    color:rgb(187, 246, 221)  
}
```

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(187, 246, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 246, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 66.5004, 81.6968, 80.6707 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(187, 246, 221) }
```



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

```
.border{ border-color:rgb(187, 246, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 246, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(187, 246, 221); -webkit-box-shadow:4px 4px 4px 4px rgb(187, 246, 221); box-shadow:4px 4px 4px 4px rgb(187, 246, 221) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.5004, 81.6968, 80.6707 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 246, 221) }
```

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

```
.background{ background-color: rgb(187,  
246, 221) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor