

# Converting Colors

XYZ(68.7071, 80.4081, 84.3991)

Have a look what the booklet for  
XYZ(68.7071, 80.4081, 84.3991)  
contains.

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# Color

**XYZ(68.8736, 80.5988,  
84.6001)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C7F1E3
RGB	199, 241, 227
RGB Percent	78%, 95%, 89%
CMY	0.2196, 0.0549, 0.1098
CMYK	0.17, 0.00, 0.06, 0.05
HSL	160°, 60%, 86%
HSV	160°, 17%, 95%
XYZ	68.8736, 80.5988, 84.6001
YIQ	226.8460, -20.5380, -13.2580

# Conversions

## Conversions Part 2

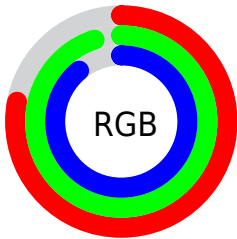
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	199, 224, 241
Decimal	13103587
CIE <sub>Lab</sub>	91.95, -16.22, 2.26
CIE <sub>LCh</sub>	92, 16.372, 172.065
Yxy	80.5988, 0.2942, 0.3443
Android (android.graphics.Color)	4291293667 (0xFFC7F1E3)
YUV	226.8460, 0.0759, -24.4209
Hunter-Lab	89.7768, -20.1706, 6.9726

# Details

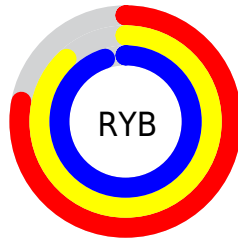
The XYZ color **68.8736, 80.5988, 84.6001** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **68.7122, 64.3538, 71.7543**, and the grayscale version is **72.9138, 76.7110, 83.5382**.

A 20% lighter version of the original color is **95.0500, 100.0000, 108.9000**, and **36.4724, 43.6962, 45.5416** is the 20% darker color. If you saturate the color by 10%, you get **61.8957, 77.1289, 78.6201**, and if you desaturate by 10%, it is **76.9205, 84.6182, 90.9038**.

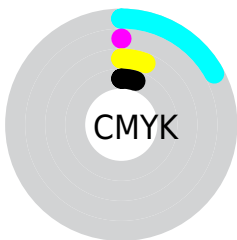
# Distribution



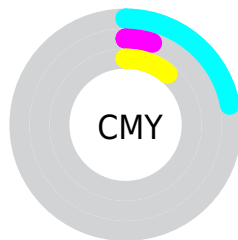
- Red (78%)
- Green (95%)
- Blue (89%)



- Red (78%)
- Yellow (88%)
- Blue (95%)



- Cyan (17%)
- Magenta (0%)
- Yellow (6%)
- Black (5%)



- Cyan (22%)
- Magenta (5%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.8736, 80.5988, 84.6001 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 68.8736, 80.5988, 84.6001 by changing the saturation by 10% instead.



68.8736, 80.5988,  
84.6001

68.8736, 80.5988,  
84.6001

445.9134,  
496.9485, 530.4139

50.8850, 60.2112,  
62.9628

116.6361,  
134.2073, 141.6835

36.3378, 43.5889,  
45.3703

147.1407,  
168.1970, 177.9667

24.8665, 30.3475,  
31.4041

182.5481,  
207.4895, 219.9688

16.1058, 20.1025,  
20.6457

223.2235,  
252.4693, 268.1086

9.6904, 12.4696,  
12.6766

269.5324,  
303.5207, 322.8044

5.2549, 7.0643,  
7.0781


321.8401,


2.4338, 3.5024,


361.0281, 384.4749


3.4318


380.5120,  
425.3759, 453.5385


 0.8620, 1.3993,  
1.3191


 0.0000, 0.2162,  
0.0774


 68.8736, 80.5988,  
84.6001


 68.8736, 80.5988,  
84.6001


 61.8957, 77.1289,  
78.6201


 76.9205, 84.6182,  
90.9038

 55.9317, 74.1737,  
72.9523

 86.0747, 89.2001,  
97.5313

 50.9319, 71.7096,  
67.5926

 90.1262, 91.1454,  
104.1973

 46.8393, 69.7075,  
62.5343

 90.7468, 91.3936,  
107.4656

■ 43.5909, 68.1350,  
57.7708

■ 41.1153, 66.9553,  
53.2945

■ 39.3286, 66.1252,  
49.0977

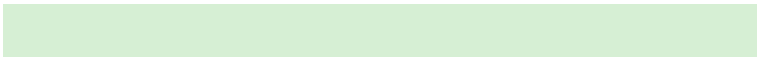
■ 38.1204, 65.5881,  
45.1708

■ 37.8596, 65.4747,  
44.2021

# Harmonies

## Analogous

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



70.4042, 80.5988, 74.2772



68.8736, 80.5988, 84.6001



69.3543, 80.5988, 96.7490

# Triad

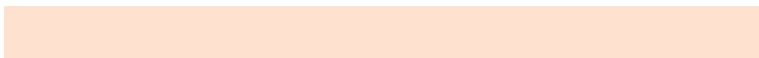
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



68.8736, 80.5988, 84.6001



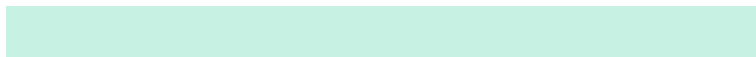
79.6848, 80.5988, 111.0183



81.6863, 80.5988, 70.7306

# Complementary

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



68.8736, 80.5988, 84.6001



68.7122, 64.3538, 71.7543

# 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.



84.3479, 80.5988, 79.3428



68.8736, 80.5988, 84.6001



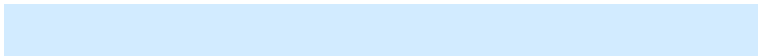
83.1632, 80.5988, 102.7794

# Square

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



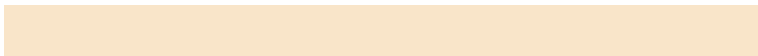
68.8736, 80.5988, 84.6001



75.4959, 80.5988, 112.7520



84.8981, 80.5988, 90.9943



77.7285, 80.5988, 66.7615



# Rectangle

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



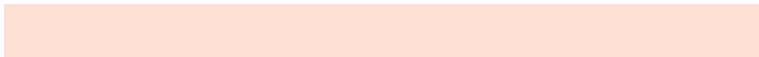
68.8736, 80.5988, 84.6001



70.7590, 80.5988, 104.2067



84.8981, 80.5988, 90.9943



82.7681, 80.5988, 73.1389

# Sweetspot

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



68.8759, 80.6022, 84.6019



89.8369, 97.3907, 105.1231



69.4108, 81.2887, 66.0659



19.0775, 20.7700, 22.3887



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

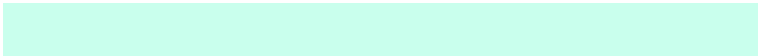


# Same Dimension

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



68.8759, 80.6022, 84.6019



75.2761, 90.1230, 93.6614



69.0555, 77.7412, 94.5891



16.0103, 17.8341, 19.0771



20.5946, 35.5298, 24.3117



1.7592, 2.9741, 2.2645



# Inverse Universe

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



68.7122, 64.3538, 71.7543



75.0578, 68.3739, 76.4687



68.4901, 66.6327, 63.2856



15.9902, 15.8458, 17.5044



20.5195, 10.4802, 5.3860

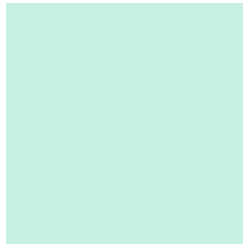


1.7515, 0.8896, 0.6823



# Previews

## White Background



This preview shows how the XYZ color 68.8736, 80.5988, 84.6001 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

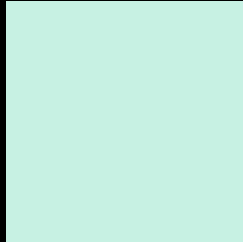
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.8736, 80.5988, 84.6001 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

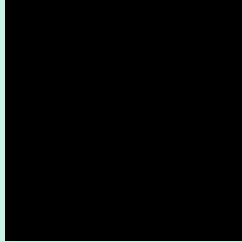
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

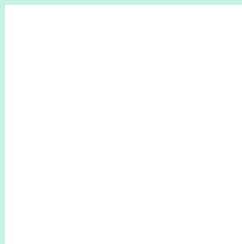
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 68.8736, 80.5988, 84.6001

## Background



This preview shows how black text looks on a background with the XYZ color 68.8736, 80.5988, 84.6001.



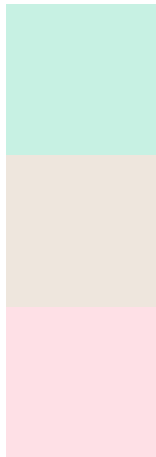
This preview shows how white text looks on a background with the XYZ color 68.8736, 80.5988,

84.6001.

# 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

68.8736, 80.5988, 84.6001

### Protanopia

76.6079, 79.9912, 79.8088

### Deuteranopia

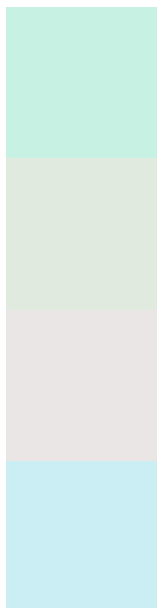
81.8116, 80.0953, 86.0109



## Tritanopia

73.5110, 80.7675, 106.3230

# Trichromacy



## Original Color

68.8736, 80.5988, 84.6001

## Protanomaly

73.4826, 80.0206, 81.3846

## Deuteranomaly

76.3714, 79.7432, 85.4955

## Tritanomaly

71.6846, 80.4382, 98.1341

# Monochromacy



## Original Color

68.8736, 80.5988, 84.6001

## Achromatopsia

73.0128, 76.8151, 83.6517

## Achromatomaly

71.3370, 78.0110, 83.9708

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.8736, 80.5988, 84.6001 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(199, 241, 227)` looks like.

```
.text, #text, p{  
    color:rgb(199, 241, 227)  
}
```

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(199, 241, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 241, 227) }
```

## Border

The CSS property to change the border of an element to XYZ 68.8736, 80.5988, 84.6001 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(199, 241, 227) }
```



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

```
.border{ border-color:rgb(199, 241, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 241, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 241, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 241, 227);  
box-shadow:4px 4px 4px 4px rgb(199, 241,  
227) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.8736, 80.5988, 84.6001 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 241, 227) }
```

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

```
.background{ background-color: rgb(199,  
241, 227) }
```

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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