

# Converting Colors

XYZ(63.4945, 80.4052, 82.4248)

Have a look what the booklet for  
XYZ(63.4945, 80.4052, 82.4248)  
contains.

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# Color

**XYZ(63.7286, 80.6740,  
82.7338)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | ACF7E0                       |
| RGB         | 172, 247, 224                |
| RGB Percent | 67%, 97%, 88%                |
| CMY         | 0.3255, 0.0314, 0.1216       |
| CMYK        | 0.30, 0.00, 0.09, 0.03       |
| HSL         | 162°, 82%, 82%               |
| HSV         | 162°, 30%, 97%               |
| XYZ         | 63.7286, 80.6740, 82.7338    |
| YIQ         | 221.9530, -37.3170, -23.0530 |

# Conversions

## Conversions Part 2

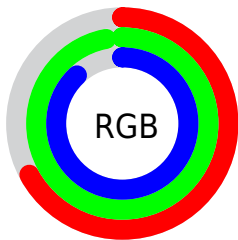
| <b>Format</b>                       | <b>Color</b>                  |
|-------------------------------------|-------------------------------|
| R <sub>Y</sub> B                    | 172, 216, 247                 |
| Decimal                             | 11335648                      |
| CIE Lab                             | 91.99, -27.83, 3.68           |
| CIE LCh                             | 92, 28.076, 172.468           |
| Yxy                                 | 80.6740, 0.2806,<br>0.3552    |
| Android<br>(android.graphics.Color) | 4289525728<br>(0xFFACF7E0)    |
| YUV                                 | 221.9530, 1.0092,<br>-43.8088 |
| Hunter-Lab                          | 89.8187, -30.5326,<br>8.2599  |

# Details

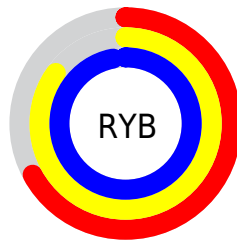
The XYZ color **63.7286, 80.6740, 82.7338** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **62.9635, 53.2215, 58.5874**, and the grayscale version is **69.4118, 73.0266, 79.5260**.

A 20% lighter version of the original color is **86.1231, 95.3980, 108.4822**, and **32.9110, 43.4734, 44.1927** is the 20% darker color. If you saturate the color by 10%, you get **57.7990, 77.7354, 77.2132**, and if you desaturate by 10%, it is **70.7160, 84.1569, 88.5464**.

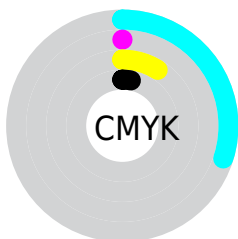
# Distribution



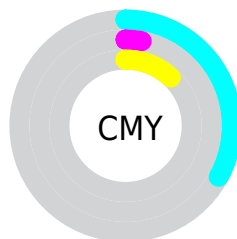
- Red (67%)
- Green (97%)
- Blue (88%)



- Red (67%)
- Yellow (85%)
- Blue (97%)



- Cyan (30%)
- Magenta (0%)
- Yellow (9%)
- Black (3%)



- Cyan (33%)
- Magenta (3%)
- Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.7286, 80.6740, 82.7338 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 63.7286, 80.6740, 82.7338 by changing the saturation by 10% instead.



63.7286, 80.6740,  
82.7338

63.7286, 80.6740,  
82.7338

427.8267,  
497.2014, 524.0467

46.6918, 60.2731,  
61.4312

109.2959,  
134.3129, 139.0485

32.9990, 43.6388,  
44.1405

138.5571,  
168.3198, 174.8976

22.2849, 30.3867,  
30.4430

172.6237,  
207.6308, 216.4328

14.1842, 20.1323,  
19.9201

211.8612,  
252.6303, 264.0724

8.3314, 12.4912,  
12.1535

256.6349,  
303.7027, 318.2351

4.3613, 7.0792,  
6.7245


307.3101,


1.9085, 3.5117,


361.2324, 379.3393


3.2146


364.2523,  
425.6038, 447.8037


 0.5818, 1.4043,  
1.2052


 0.0000, 0.2199,  
0.0000


 63.7286, 80.6740,  
82.7338


 63.7286, 80.6740,  
82.7338


 57.7990, 77.7354,  
77.2132


 70.7160, 84.1569,  
88.5464


 52.8639, 75.3021,  
71.9733

 78.8067, 88.2010,  
94.6508

 48.8636, 73.3456,  
67.0100

 88.0514, 92.8347,  
101.0543

 45.7290, 71.8303,  
62.3167

 92.4403, 94.9597,  
107.4784

■ 43.3810, 70.7155,  
57.8866

■ 92.5522, 95.0044,  
108.0674

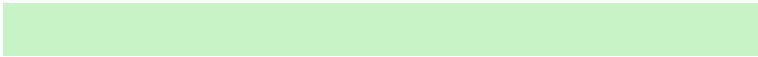
■ 41.7252, 69.9526,  
53.7119

■ 40.6367, 69.4742,  
49.9208

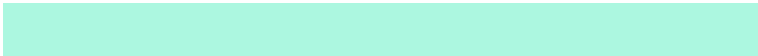
# Harmonies

## Analogous

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



66.1927, 80.6740, 65.7874



63.7286, 80.6740, 82.7338



64.5574, 80.6740, 103.9192

# Triad

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



63.7286, 80.6740, 82.7338



82.1042, 80.6740, 129.9172



85.4456, 80.6740, 59.9454

# Complementary

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



63.7286, 80.6740, 82.7338



62.9635, 53.2215, 58.5874

# 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.



90.2285, 80.6740, 73.5118



63.7286, 80.6740, 82.7338



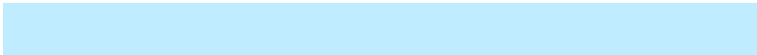
88.2165, 80.6740, 114.3410

# Square

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



63.7286, 80.6740, 82.7338



74.8738, 80.6740, 133.4189



91.2730, 80.6740, 93.1527



78.5114, 80.6740, 54.0407



# Rectangle

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



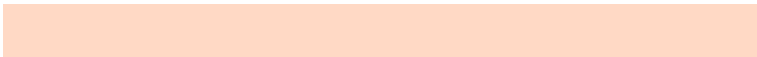
63.7286, 80.6740, 82.7338



66.8916, 80.6740, 117.4954



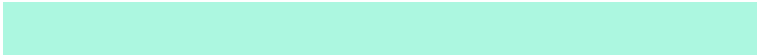
91.2730, 80.6740, 93.1527



87.3757, 80.6740, 63.6487

# Sweetspot

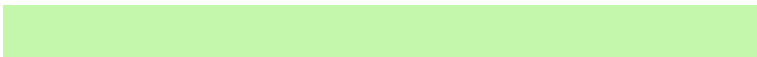
The Sweet Spot groups the original color and five complimentary colors.



63.7309, 80.6773, 82.7356



85.9922, 95.4591, 102.6686



63.4097, 81.2058, 51.3634



18.1130, 20.2856, 21.7650



0.0000, 0.0000, 0.0000

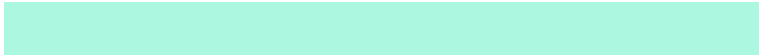


20.3446, 21.4041, 23.3091

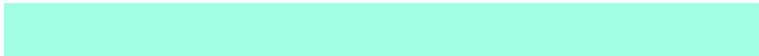


# Same Dimension

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



63.7309, 80.6773, 82.7356



64.7490, 84.8652, 85.5291



63.0141, 73.9086, 98.9441



16.7676, 18.6662, 20.0607



21.5569, 36.7676, 26.7499



1.9404, 3.2498, 2.5921



# Inverse Universe

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



62.9635, 53.2215, 58.5874



63.8158, 51.3027, 56.0341



63.3130, 57.7676, 46.8444



16.7084, 16.5662, 18.2109



21.0270, 10.7542, 4.8504

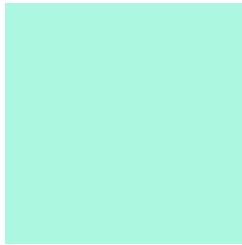


1.8920, 0.9628, 0.6579



# Previews

## White Background



This preview shows how the XYZ color 63.7286, 80.6740, 82.7338 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

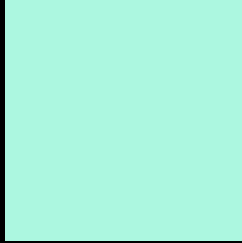
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 63.7286, 80.6740, 82.7338 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

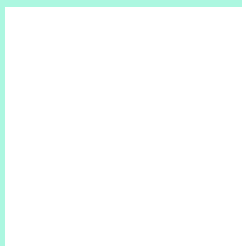
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 63.7286, 80.6740, 82.7338**

## **Background**



This preview shows how black text looks on a background with the XYZ color 63.7286, 80.6740, 82.7338.



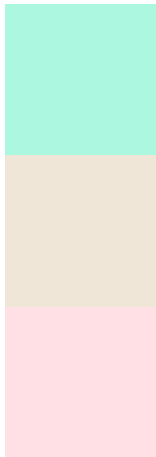
This preview shows how white text looks on a background with the XYZ color 63.7286, 80.6740,



# 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

63.7286, 80.6740, 82.7338

### Protanopia

76.1592, 79.8506, 75.6887

### Deuteranopia

81.6716, 80.0393, 85.2733



## Tritanopia

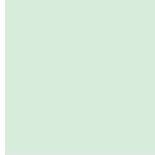
70.6547, 80.1595, 106.3562

# Trichromacy



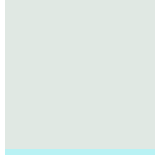
## Original Color

63.7286, 80.6740, 82.7338



## Protanomaly

70.6747, 79.4999, 77.9497



## Deuteranomaly

73.4622, 79.1066, 84.0703



## Tritanomaly

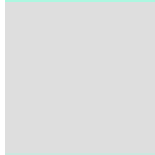
68.0888, 80.3502, 97.5084

# Monochromacy



## Original Color

63.7286, 80.6740, 82.7338



## Achromatopsia

69.4303, 73.0461, 79.5472



## Achromatomaly

66.7970, 75.3169, 80.8291

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.7286, 80.6740, 82.7338 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(172, 247, 224)` looks like.

```
.text, #text, p{  
    color:rgb(172, 247, 224)  
}
```

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(172, 247, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 247, 224) }
```

## Border

The CSS property to change the border of an element to XYZ 63.7286, 80.6740, 82.7338 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(172, 247, 224) }
```



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

```
.border{ border-color:rgb(172, 247, 224) }
```

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

Here you see how a box with a 4 pixel rgb(172, 247, 224) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 247, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 247, 224);  
box-shadow:4px 4px 4px 4px rgb(172, 247,  
224) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.7286, 80.6740, 82.7338 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 247, 224) }
```

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

```
.background{ background-color: rgb(172,  
247, 224) }
```

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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