

# Converting Colors

XYZ(121.5695, 171.5035,  
172.4552)

Have a look what the booklet for  
XYZ(121.5695, 171.5035, 172.4552)  
contains.

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# **Color**

**XYZ(72.1701, 88.2050,  
107.8292)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | B2FFFF                       |
| RGB         | 178, 255, 255                |
| RGB Percent | 70%, 100%, 100%              |
| CMY         | 0.3019, 0.0000, 0.0000       |
| CMYK        | 0.30, 0.00, 0.00, 0.00       |
| HSL         | 180°, 100%, 85%              |
| HSV         | 180°, 30%, 100%              |
| XYZ         | 72.1701, 88.2050, 107.8292   |
| YIQ         | 231.9770, -45.8920, -16.3240 |

# Conversions

## Conversions Part 2

| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| <b>R<sub>YB</sub></b>               | 178, 217, 255                  |
| Decimal                             | 11730943                       |
| CIE <sub>Lab</sub>                  | 95.25, -23.36, -7.55           |
| CIE <sub>LCh</sub>                  | 95, 24.551, 197.903            |
| Yxy                                 | 88.2050, 0.2691,<br>0.3289     |
| Android<br>(android.graphics.Color) | 4289921023<br>(0xFFB2FFFF)     |
| YUV                                 | 231.9770, 11.3503,<br>-47.3378 |
| Hunter-Lab                          | 93.9175, -27.1889,<br>-2.3302  |

# Details

The XYZ color **72.1701, 88.2050, 107.8292** is a light color, and the websafe version is hex **99FFFF**, and the color name is **celeste**. A complement of this color would be **65.1973, 56.3167, 49.5552**, and the grayscale version is **76.6268, 80.6174, 87.7923**.

A 20% lighter version of the original color is **88.4021, 96.5729, 108.5889**, and **38.4132, 48.6030, 60.7828** is the 20% darker color. If you saturate the color by 10%, you get **66.8533, 85.4641, 107.5804**, and if you desaturate by 10%, it is **78.5760, 91.5073, 108.1290**.

# Distribution



- Red (70%)
- Green (100%)
- Blue (100%)



- Red (70%)
- Yellow (85%)
- Blue (100%)



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




- Cyan (30%)
- Magenta (0%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 72.1701, 88.2050, 107.8292 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 72.1701, 88.2050, 107.8292 by changing the saturation by 10% instead.





 72.1701, 88.2050,  
107.8292

 72.1701, 88.2050,  
107.8292


457.2819,  
522.1743, 606.4724

 53.5836, 66.4929,  
82.2017


 121.3078,  
144.8425, 174.0208

 38.4982, 48.6726,  
60.9950


152.5898,  
180.5367, 215.4220

 26.5486, 34.3598,  
43.7906

188.8342,  
221.6603, 262.9181

 17.3693, 23.1702,  
30.1700

230.4066,  
268.5978, 316.9278

 10.5951, 14.7192,  
19.7145

277.6722,  
321.7336, 377.8695

 5.8605, 8.6226,  
12.0057

330.9963,

 2.8003, 4.4958,

381.4520, 446.1618

6.6249

390.7445,  
448.1374, 522.2233

■ 1.0491, 1.9546,  
3.1538

■ 0.0000, 0.5809,  
1.1737

■ 72.1701, 88.2050,  
107.8292

■ 72.1701, 88.2050,  
107.8292

■ 66.8533, 85.4641,  
107.5804

■ 78.5760, 91.5073,  
108.1290

■ 62.5629, 83.2523,  
107.3796

■ 86.1242, 95.3986,  
108.4823

■ 59.2334, 81.5359,  
107.2238

94.8676, 99.9060,  
108.8915

■ 56.7908, 80.2766,  
107.1095

95.0500, 100.0000,  
108.9000

■ 55.1504, 79.4310,  
107.0327

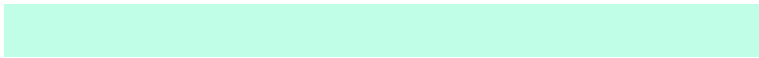
■ 54.2110, 78.9467,  
106.9888

■ 53.8100, 78.7400,  
106.9700

# Harmonies

## Analogous

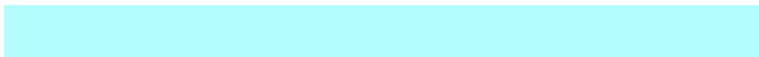
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



71.8650, 88.2050, 88.5174



72.1701, 88.2050, 107.8292



75.4966, 88.2050, 126.0860

# Triad

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



72.1701, 88.2050, 107.8292



93.7587, 88.2050, 122.9451



86.5637, 88.2050, 64.3053

# Complementary

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



72.1701, 88.2050, 107.8292



65.1973, 56.3167, 49.5552

# 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.



92.7684, 88.2050, 71.1924



72.1701, 88.2050, 107.8292



97.0681, 88.2050, 103.9777

# Square

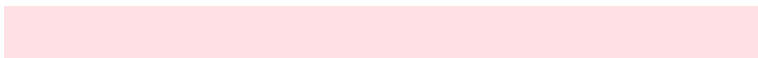
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



72.1701, 88.2050, 107.8292



87.8574, 88.2050, 135.5808



96.6963, 88.2050, 85.1435



79.9396, 88.2050, 65.0482

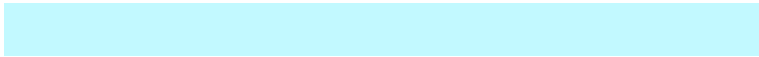


# Rectangle

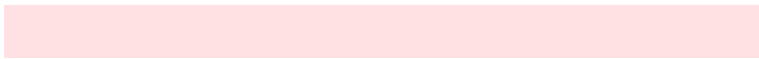
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



72.1701, 88.2050, 107.8292



79.0850, 88.2050, 134.4228



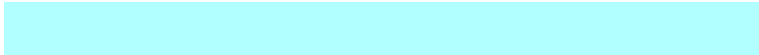
96.6963, 88.2050, 85.1435



88.7740, 88.2050, 65.7625

# Sweetspot

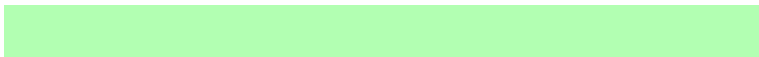
The Sweet Spot groups the original color and five complimentary colors.



72.1709, 88.2054, 107.8293



87.1049, 95.9042, 108.5282



62.1571, 84.1999, 55.0975



18.3889, 20.3959, 23.2176



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.



72.1709, 88.2054, 107.8293



68.9552, 86.5477, 107.6788



61.0955, 66.0546, 104.1375



18.5550, 20.4815, 23.2253



28.1169, 41.1433, 55.8941



2.7376, 4.0060, 5.4422



# Inverse Universe

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



75.2111, 60.3222, 102.2870



72.4227, 54.7455, 101.3576



73.9608, 73.8437, 52.4764



18.7928, 18.3004, 22.7918



30.9803, 14.8814, 50.6741

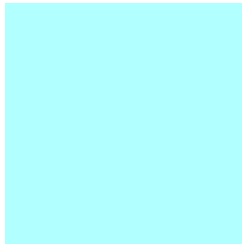


3.0164, 1.4490, 4.9340



# Previews

## White Background



This preview shows how the XYZ color 72.1701, 88.2050, 107.8292 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

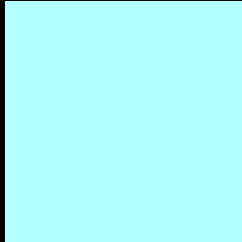
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 72.1701, 88.2050, 107.8292 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 72.1701, 88.2050, 107.8292

## Background



This preview shows how black text looks on a background with the XYZ color 72.1701, 88.2050, 107.8292.



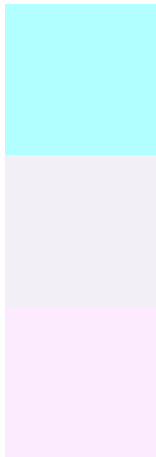
This preview shows how white text looks on a background with the XYZ color 72.1701, 88.2050,



# 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

72.1701, 88.2050, 107.8292

### Protanopia

84.4632, 87.4415, 99.6150

### Deuteranopia

87.9032, 87.3321, 106.8315



## Tritanopia

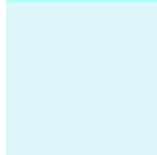
79.6210, 87.8832, 107.3744

# Trichromacy



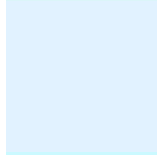
## Original Color

72.1701, 88.2050, 107.8292



## Protanomaly

78.9647, 87.2044, 102.2928



## Deuteranomaly

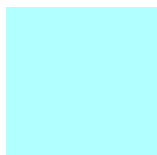
80.8535, 86.7318, 107.0872



## Tritanomaly

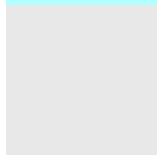
76.5543, 87.6679, 107.4945

# Monochromacy



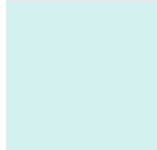
## Original Color

72.1701, 88.2050, 107.8292



## Achromatopsia

76.7008, 80.6952, 87.8771



## Achromatomaly

74.0396, 82.6085, 94.4808

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 72.1701, 88.2050, 107.8292 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(178, 255, 255)` looks like.

```
.text, #text, p{  
    color:rgb(178, 255, 255)  
}
```

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(178, 255, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 255, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 72.1701, 88.2050, 107.8292 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(178, 255, 255) }
```



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

```
.border{ border-color:rgb(178, 255, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 255, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 255, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 255, 255);  
box-shadow:4px 4px 4px 4px rgb(178, 255,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 72.1701, 88.2050, 107.8292 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 255, 255) }
```

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

```
.background{ background-color: rgb(178,  
255, 255) }
```

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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